

# Peak Assignments for TO15 Analytes with Restek Rxi-624Sil Capillary Column

Technique: Concentrator Trapping System with GC Capillary and MS Detection

Column: Restek Rxi-624Sil, 60 m x 0.32 mm ID, df = 1.8  $\mu$ m, P/N 13872

Temperature: 50 °C, (0.1 min), -20 °C (14.2 min), 4 °C/min to 200 °C

Carrier gas: Helium, 2 ml/min (EFC 25, constant flow)

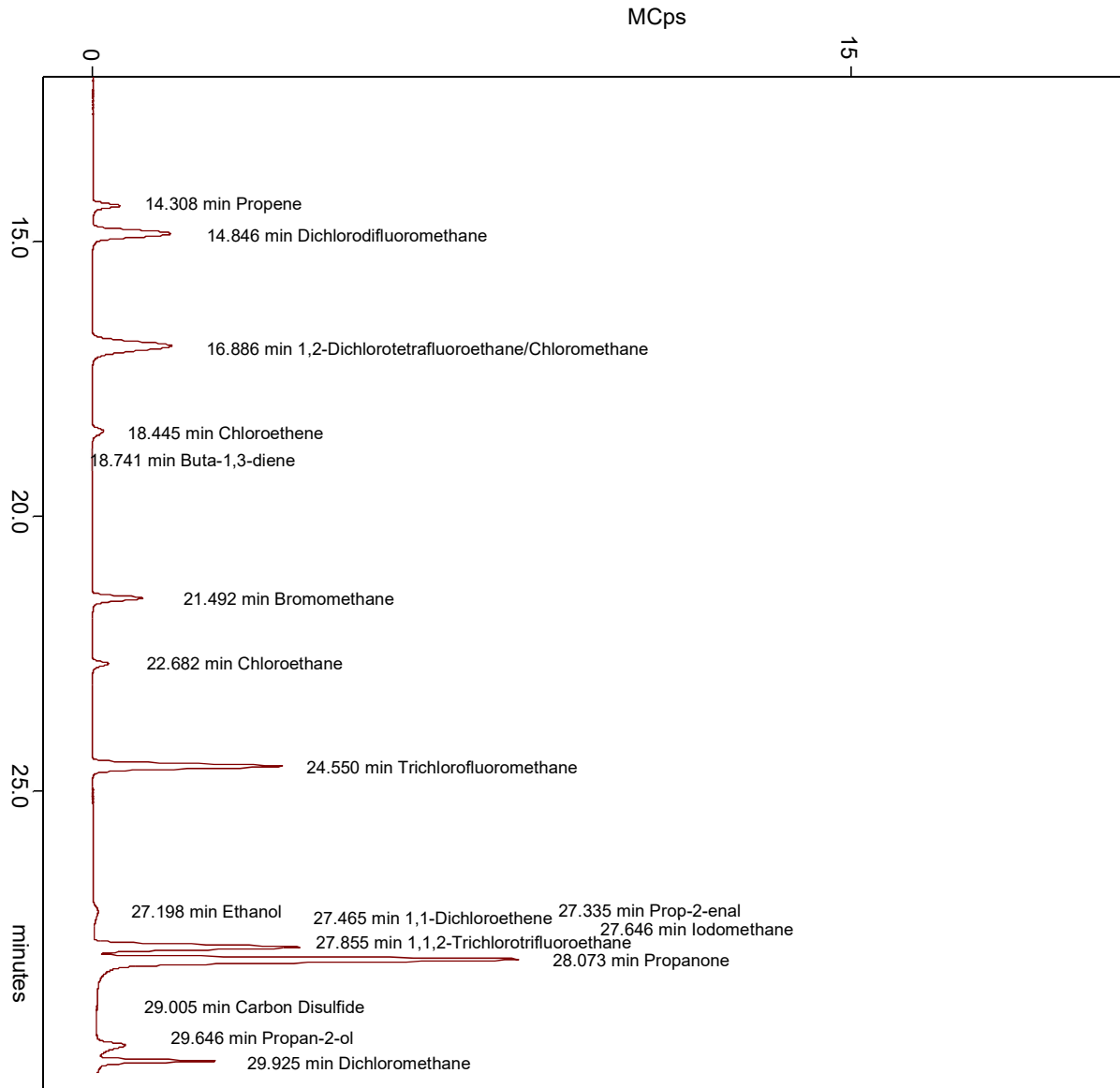
Injection: Cryotrapping following EPA TO15 protocol

Detector: Scion SQ Mass Spectrometer

Sample: Restek TO15 65-Component Mix

Sample Conc: 100 pptV

Sample Vol: 300 ml



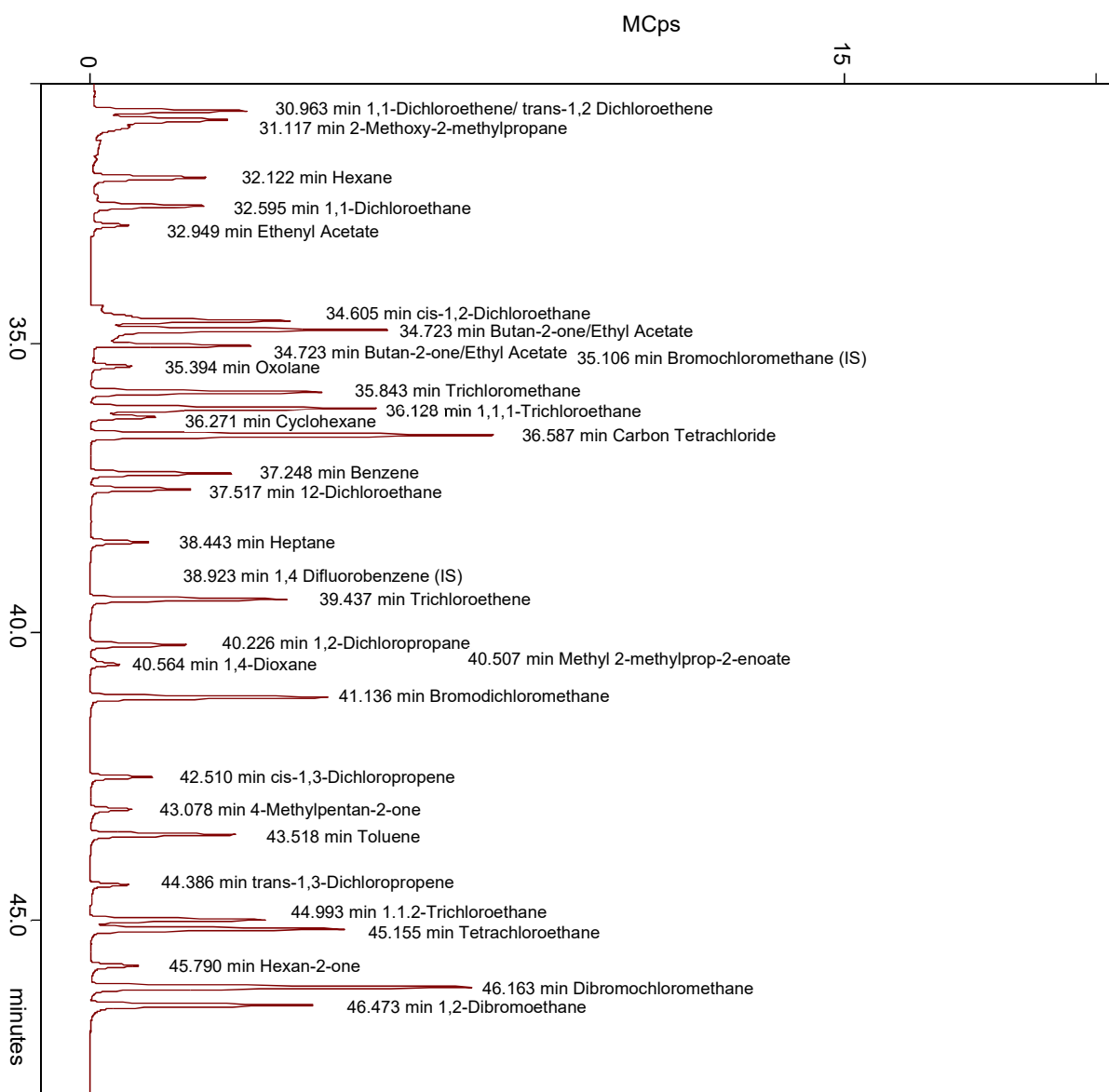
**Lotus Consulting**

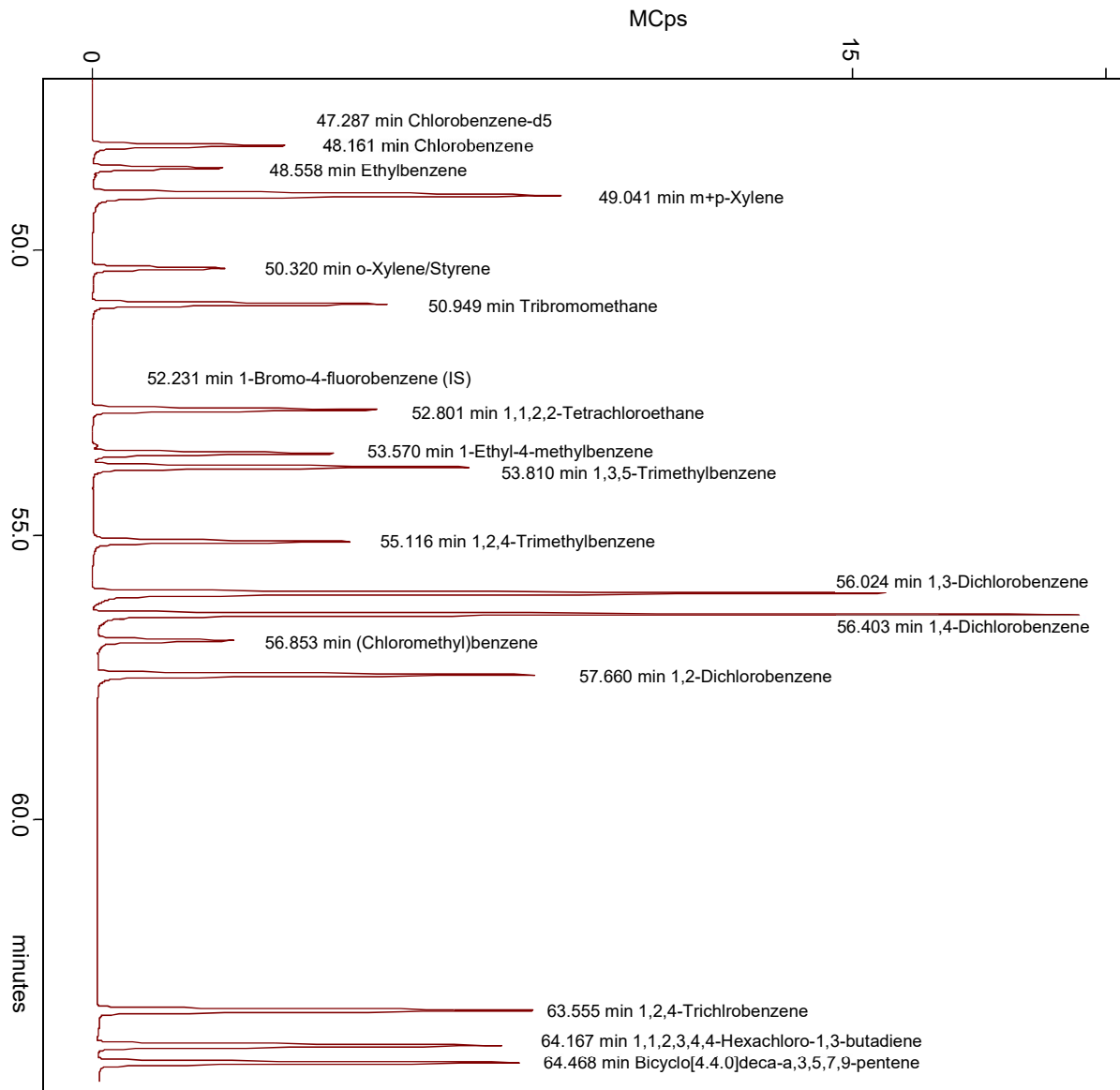
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Notes:

1. On-column injection performed at 11.00 minutes. Prior interval involves trapping processes.
2. All compound labels are per IUPAC protocol.
3. Peaks are displayed using their Quan Ions only.
4. Combining several Quan Ions for an analyte helps to enhance detection by making the peak larger, for example: Propene with 39+41+42 ions.

IUPAC Name	Ret Time	Quan Ion(s)	Ref Ions	IUPAC Name	Ret Time	Quan Ion(s)	Ref Ions
Propene	14.308	39+41+42	-	1,2-Dichloroethane	37.517	62	64
Dichlorodifluoromethane	14.846	85	87	Heptane	38.443	43	57+71
1,2-Dichlorotetrafluoroethane	16.886	85	135	1,4-Difluorobenzene (IS)	38.923	98	100
Chloromethane	16.894	50	52	Trichloroethene	39.437	130	95132
Chloroethene	18.445	62	64	1,2-Dichloropropane	40.226	63	62+76
Buta-1,3-diene	18.741	39	54+53	1,4-Dioxane	40.564	88	58
Bromomethane	21.492	94+96	-	Bromodichloromethane	41.136	83	85
Chloroethane	22.682	64	66	cis-1,3-Dichloropropene	42.510	75	77
Trichlorofluoromethane	24.550	101	103	4-Methylpentan-2-one	43.078	43	57+58
Ethanol	27.198	45+46	-	Toluene	43.518	91	92
Prop-2-enal	27.335	56	55	trans-1,3-Dichloropropene	44.386	75	77
1,1-Dichloroethene	27.465	61	96+98	1,1,2-Trichloroethane	44.993	97	83+99
Iodomethane	27.646	142	127	Tetrachloroethene	45.155	166	131+164
1,1,2-Trichlorotrifluoroethane	27.855	101	103	Hexan-2-one	45.790	43	57+58
Propanone	28.073	43	58	Dibromochloromethane	46.163	129	127+131
Carbon Disulfide	29.005	76	-	1,2-Dibromoethane	46.473	107	109
Propan-2-ol	29.646	45	43	Chlorobenzene-d5 (IS)	47.287	117	82
Dichloromethane	29.925	49	84	Chlorobenzene	48.161	112	77+114
1,1-Dichloroethene	30.949	61	96	Ethylbenzene	48.558	91	106
trans-1,2-Dichloroethene	30.963	61	96+98	m+p-Xylenes	49.041	91	106
2-Methoxy-2-methylpropane	31.117	73	43+57	Styrene	50.320	104	78+103
Hexane	32.122	57	41+56	o-Xylene	50.320	91	106
1,1-Dichloroethane	32.595	63	65	Tribromomethane	50.949	173	171+175
Ethenyl Acetate	32.949	43	-	1-Bromo-4-fluorobenzene (IS)	52.231	95	174+176
cis-1,2-Dichloroethene	34.605	61	96+98	1,1,2,2-Tetrachloroethane	52.801	83	85
Butan-2-one	34.723	43	57+72	1-Ethyl-4-methylbenzene	53.570	105	120
Ethyl Acetate	34.723	43	70	1,3,5-Trimethylbenzene	53.810	105	120
Bromochloromethane (IS)	35.106	49	128+130	1,2,4-Trimethylbenzene	55.116	105	120
Oxolane	35.394	42	71+72	1,3-Dichlorobenzene	56.024	146	111+148
Trichloromethane	35.843	83+85	-	1,4-Dichlorobenzene	56.403	146	111+148
1,1,1-Trichloroethane	36.128	97+99	61	(Chloromethyl)benzene	56.853	91	126
Cyclohexane	36.271	84	56	1,2-Dichlorobenzene	57.660	146	111+148
Carbon Tetrachloride	36.587	119	119+121	1,2,4-Trichlorobenzene	63.555	180	145+182
Benzene	37.248	78	77	Hexachloro-1,3-butadiene	64.167	225	223+227
				Bicyclo[4.4.0]deca-a,3,5,7,9-pentene	64.468	128	-