Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN070725\
Data File : VN087281.D
Acq On : 07 Jul 2025 09:48
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Quant Time: Jul 08 01:26:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N063025W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 01 03:15:00 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	253960	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	391455	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	371947	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	217810	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	141986	44.547	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 89.100%			
35) Dibromofluoromethane	8.177	113	124726	49.761	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.520%			
50) Toluene-d8	10.565	98	473749	48.491	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 96.980%			
62) 4-Bromofluorobenzene	12.847	95	168668	48.521	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 97.040%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.154	85	120016	48.561	ug/l	97
3) Chloromethane	2.395	50	89133	44.414	ug/l	93
4) Vinyl Chloride	2.554	62	115792	46.931	ug/l	97
5) Bromomethane	2.983	94	102927	45.715	ug/l	99
6) Chloroethane	3.148	64	86405	44.212	ug/l	96
7) Trichlorofluoromethane	3.530	101	204251	47.707	ug/l	99
8) Diethyl Ether	3.989	74	64685	47.343	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.401	101	118254	47.574	ug/l	99
10) Methyl Iodide	4.612	142	144037	58.398	ug/l	99
11) Tert butyl alcohol	5.530	59	123273	212.213	ug/l	99
12) 1,1-Dichloroethene	4.371	96	109348	46.306	ug/l	93
13) Acrolein	4.201	56	130294	323.846	ug/l	97
14) Allyl chloride	5.042	41	123989	42.842	ug/l	95
15) Acrylonitrile	5.736	53	298388	206.331	ug/l	100
16) Acetone	4.442	43	339816	278.864	ug/l	97
17) Carbon Disulfide	4.742	76	297996	42.060	ug/l	100
18) Methyl Acetate	5.048	43	123771	44.368	ug/l	99
19) Methyl tert-butyl Ether	5.812	73	364538	44.047	ug/l	95
20) Methylene Chloride	5.300	84	116286	43.078	ug/l	99
21) trans-1,2-Dichloroethene	5.806	96	122830	43.046	ug/l	96
22) Diisopropyl ether	6.689	45	286230	41.308	ug/l	95
23) Vinyl Acetate	6.618	43	1357384	211.816	ug/l	98
24) 1,1-Dichloroethane	6.589	63	196095	43.193	ug/l	98
25) 2-Butanone	7.489	43	419009	220.030	ug/l	94
26) 2,2-Dichloropropane	7.500	77	200200	46.083	ug/l	99
27) cis-1,2-Dichloroethene	7.494	96	150800	45.762	ug/l	97
28) Bromochloromethane	7.824	49	84507	42.171	ug/l	91
29) Tetrahydrofuran	7.847	42	258060	210.294	ug/l	98
30) Chloroform	7.977	83	224459	44.606	ug/l	96
31) Cyclohexane	8.265	56	171146	39.427	ug/l	92
32) 1,1,1-Trichloroethane	8.177	97	210339	44.883	ug/l	98
36) 1,1-Dichloropropene	8.377	75	156875	46.024	ug/l	96
37) Ethyl Acetate	7.565	43	159239	43.458	ug/l	99
38) Carbon Tetrachloride	8.365	117	191948	49.697	ug/l	97
39) Methylcyclohexane	9.600	83	188918	46.540	ug/l	98
40) Benzene	8.612	78	477085	45.178	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN070725\
Data File : VN087281.D
Acq On : 07 Jul 2025 09:48
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Quant Time: Jul 08 01:26:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N063025W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 01 03:15:00 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	7.783	41	75583	43.142	ug/l		96
42) 1,2-Dichloroethane	8.677	62	165960	47.257	ug/l		99
43) Isopropyl Acetate	8.694	43	252759	44.481	ug/l		99
44) Trichloroethene	9.353	130	137691	49.070	ug/l		97
45) 1,2-Dichloropropane	9.624	63	108224	47.004	ug/l		92
46) Dibromomethane	9.712	93	92733	47.344	ug/l		96
47) Bromodichloromethane	9.888	83	179033	47.925	ug/l		99
48) Methyl methacrylate	9.683	41	109389	45.675	ug/l		99
49) 1,4-Dioxane	9.700	88	44952	902.826	ug/l	#	98
51) 4-Methyl-2-Pentanone	10.447	43	814566	234.287	ug/l		99
52) Toluene	10.630	92	334997	48.371	ug/l		99
53) t-1,3-Dichloropropene	10.835	75	191431	47.777	ug/l		96
54) cis-1,3-Dichloropropene	10.312	75	195339	47.850	ug/l		97
55) 1,1,2-Trichloroethane	11.018	97	124162	47.459	ug/l		96
56) Ethyl methacrylate	10.877	69	170876	44.581	ug/l		98
57) 1,3-Dichloropropane	11.165	76	198733	46.542	ug/l		98
58) 2-Chloroethyl Vinyl ether	10.159	63	452295	223.271	ug/l		97
59) 2-Hexanone	11.200	43	553462	222.236	ug/l		99
60) Dibromochloromethane	11.359	129	157867	51.189	ug/l		99
61) 1,2-Dibromoethane	11.471	107	137085	48.712	ug/l		99
64) Tetrachloroethene	11.106	164	122707	49.479	ug/l		97
65) Chlorobenzene	11.888	112	398671	47.768	ug/l		98
66) 1,1,1,2-Tetrachloroethane	11.959	131	143237	49.704	ug/l		99
67) Ethyl Benzene	11.959	91	645331	47.785	ug/l		99
68) m/p-Xylenes	12.071	106	538895	99.875	ug/l		97
69) o-Xylene	12.394	106	251926	49.913	ug/l		96
70) Styrene	12.406	104	437928	51.053	ug/l		99
71) Bromoform	12.576	173	118793	53.431	ug/l	#	99
73) Isopropylbenzene	12.694	105	647819	46.160	ug/l		100
74) N-amyl acetate	12.512	43	153237	33.203	ug/l	#	87
75) 1,1,2,2-Tetrachloroethane	12.935	83	190764	41.324	ug/l		98
76) 1,2,3-Trichloropropane	12.994	75	263664	63.642	ug/l		69
77) Bromobenzene	12.976	156	176649	48.218	ug/l		93
78) n-propylbenzene	13.035	91	768377	45.325	ug/l		99
79) 2-Chlorotoluene	13.123	91	445398	44.146	ug/l		96
80) 1,3,5-Trimethylbenzene	13.171	105	554356	47.256	ug/l		99
81) trans-1,4-Dichloro-2-b...	12.735	75	80817	45.821	ug/l		100
82) 4-Chlorotoluene	13.218	91	467338	44.250	ug/l		97
83) tert-Butylbenzene	13.435	119	487092	47.393	ug/l		98
84) 1,2,4-Trimethylbenzene	13.482	105	571386	48.624	ug/l		98
85) sec-Butylbenzene	13.612	105	692340	47.524	ug/l		99
86) p-Isopropyltoluene	13.723	119	612719	48.930	ug/l		99
87) 1,3-Dichlorobenzene	13.729	146	349820	47.947	ug/l		99
88) 1,4-Dichlorobenzene	13.812	146	350705	46.037	ug/l		98
89) n-Butylbenzene	14.053	91	509856	46.244	ug/l		98
90) Hexachloroethane	14.329	117	107702	46.466	ug/l		96
91) 1,2-Dichlorobenzene	14.106	146	327754	48.034	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	14.717	75	44652	40.250	ug/l		93
93) 1,2,4-Trichlorobenzene	15.388	180	185946	46.084	ug/l		99
94) Hexachlorobutadiene	15.500	225	59234	46.213	ug/l		98
95) Naphthalene	15.635	128	623569	44.669	ug/l		100
96) 1,2,3-Trichlorobenzene	15.835	180	181940	46.283	ug/l		99

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN070725\
Data File : VN087281.D
Acq On : 07 Jul 2025 09:48
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Quant Time: Jul 08 01:26:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N063025W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 01 03:15:00 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

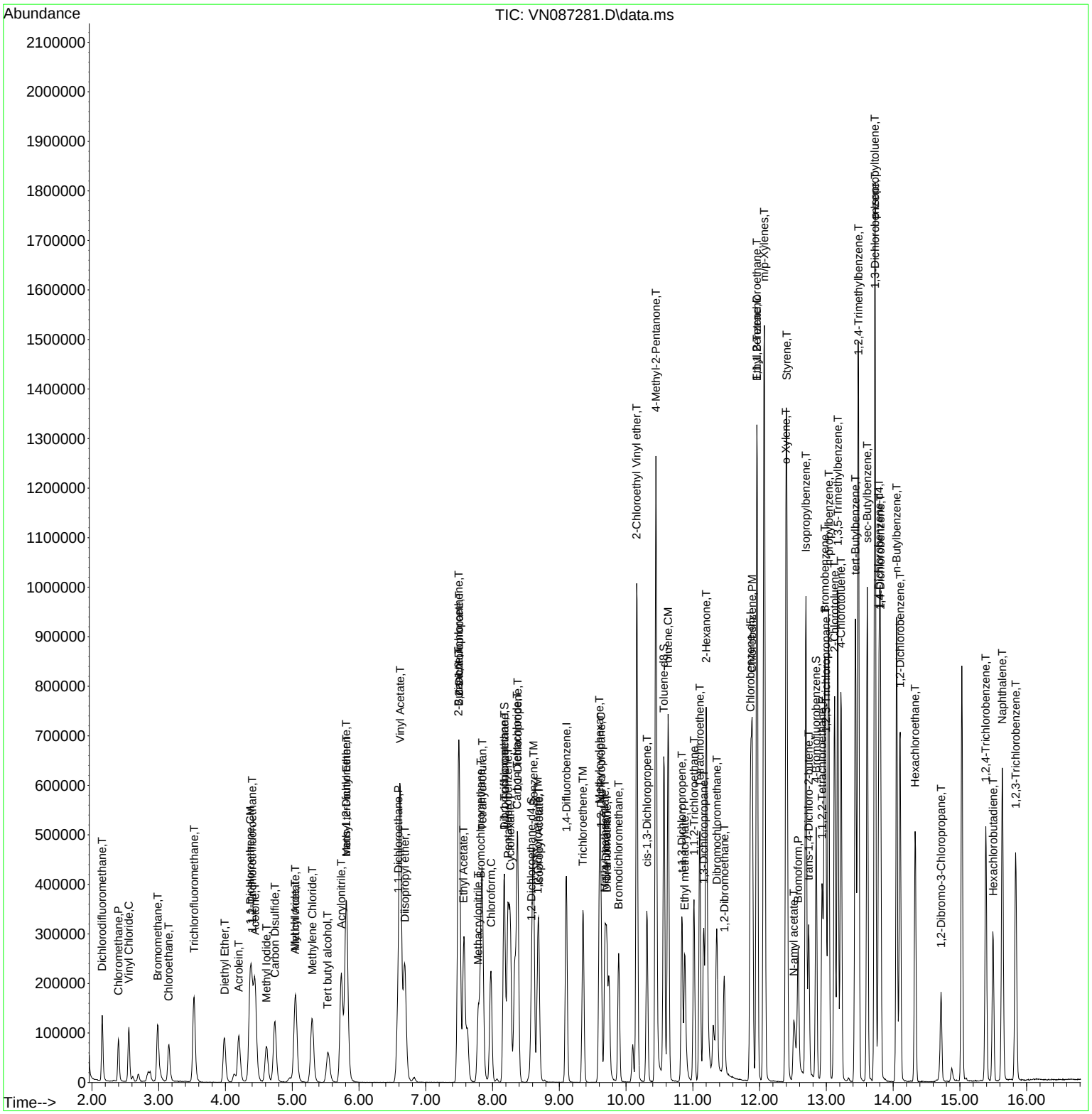
(#) = qualifier out of range (m) = manual integration (+) = signals summed

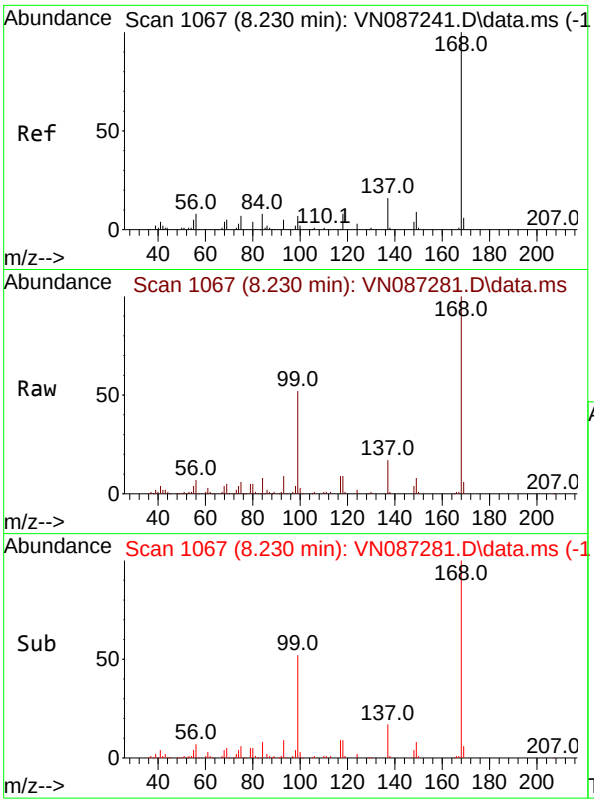
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN070725\
Data File : VN087281.D
Acq On : 07 Jul 2025 09:48
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Quant Time: Jul 08 01:26:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N063025W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 01 03:15:00 2025
Response via : Initial Calibration



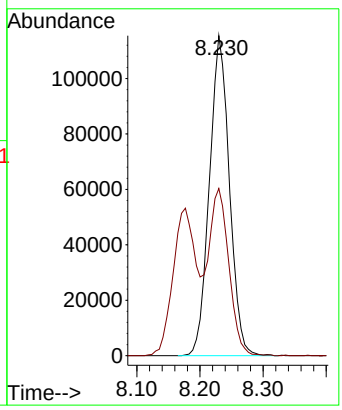


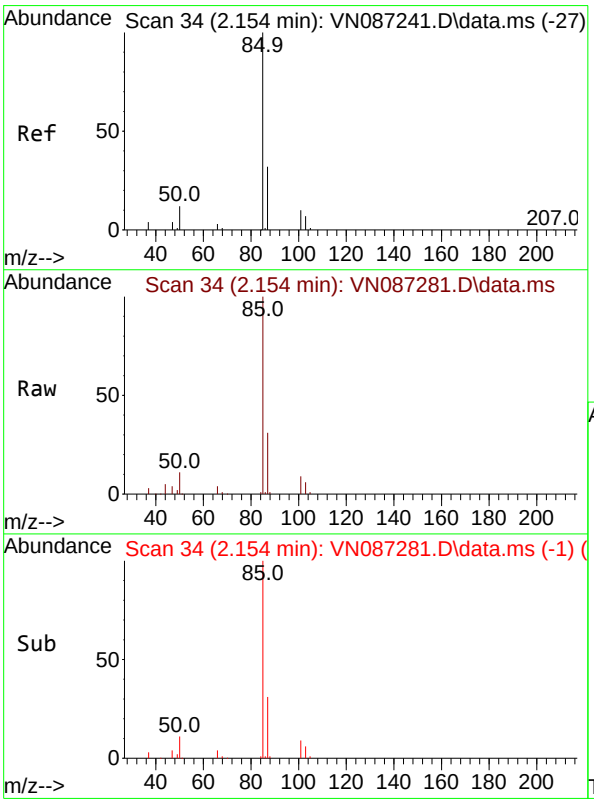
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Instrument :
MSVOA_N
ClientSampleId :
BFB

Tgt Ion:168 Resp: 253960

Ion	Ratio	Lower	Upper
168	100		
99	52.3	42.6	64.0

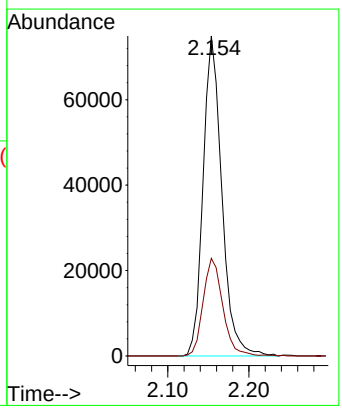


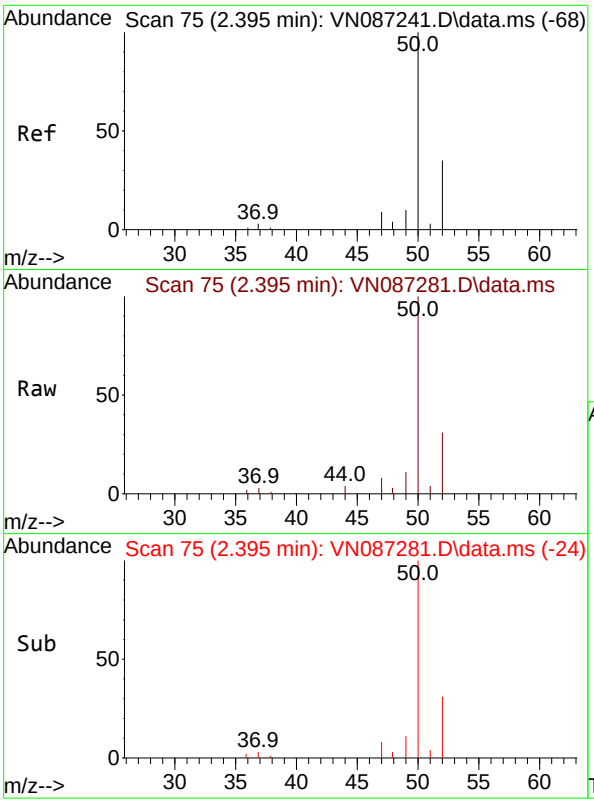


#2
Dichlorodifluoromethane
Concen: 48.561 ug/l
RT: 2.154 min Scan# 34
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Tgt Ion: 85 Resp: 120016

Ion	Ratio	Lower	Upper
85	100		
87	30.5	16.1	48.3



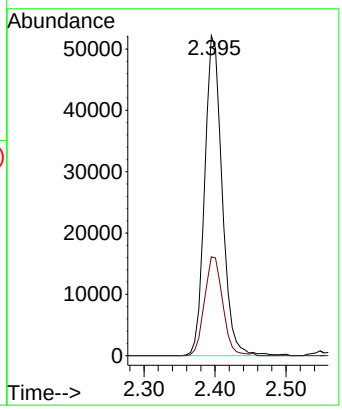


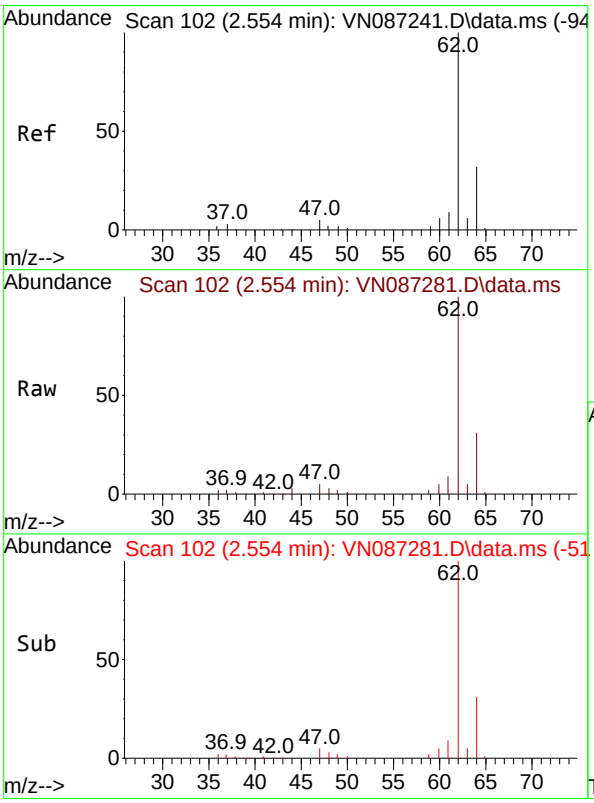
#3
Chloromethane
Concen: 44.414 ug/l
RT: 2.395 min Scan# 7
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Instrument :
MSVOA_N
ClientSampleId :
BFB

Tgt Ion: 50 Resp: 89133

Ion	Ratio	Lower	Upper
50	100		
52	30.9	27.8	41.8

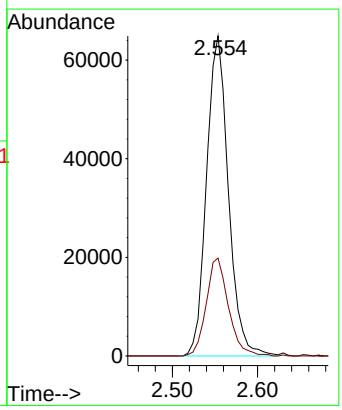


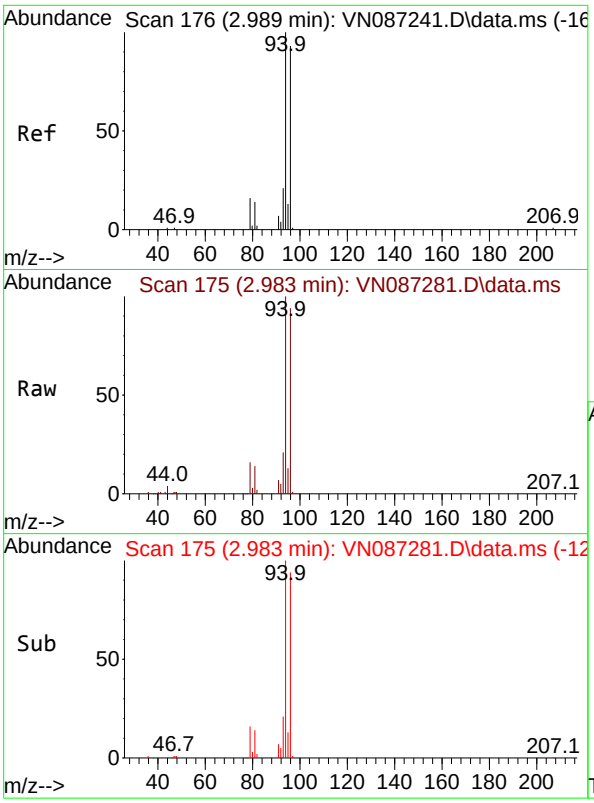


#4
Vinyl Chloride
Concen: 46.931 ug/l
RT: 2.554 min Scan# 102
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Tgt Ion: 62 Resp: 115792

Ion	Ratio	Lower	Upper
62	100		
64	30.6	26.0	39.0



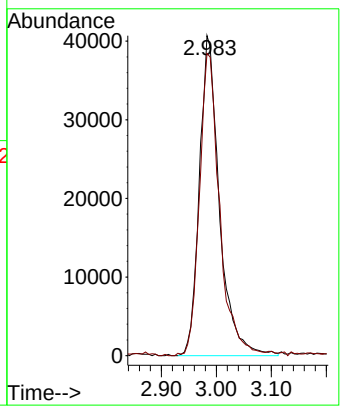


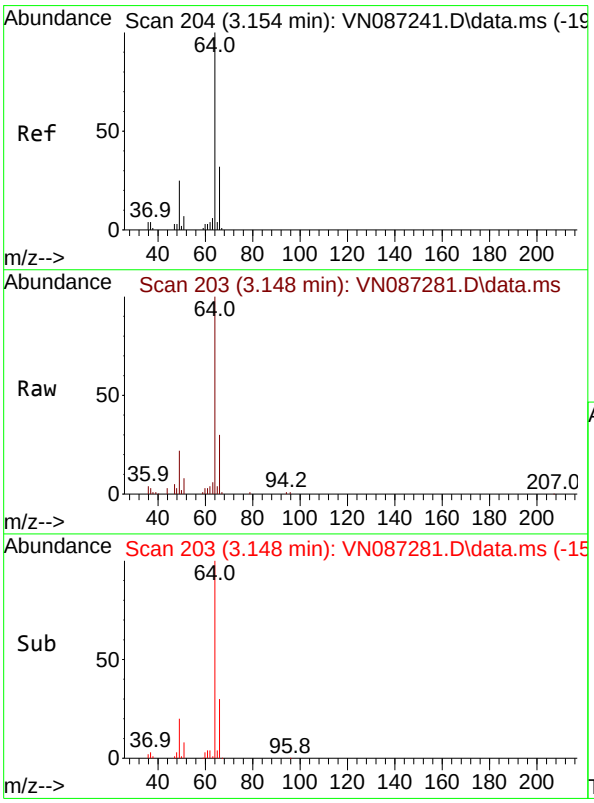
#5
Bromomethane
Concen: 45.715 ug/l
RT: 2.983 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Instrument :
MSVOA_N
ClientSampleId :
BFB

Tgt Ion: 94 Resp: 102927

Ion	Ratio	Lower	Upper
94	100		
96	93.7	74.3	111.5

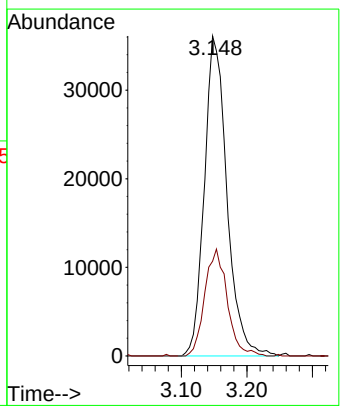


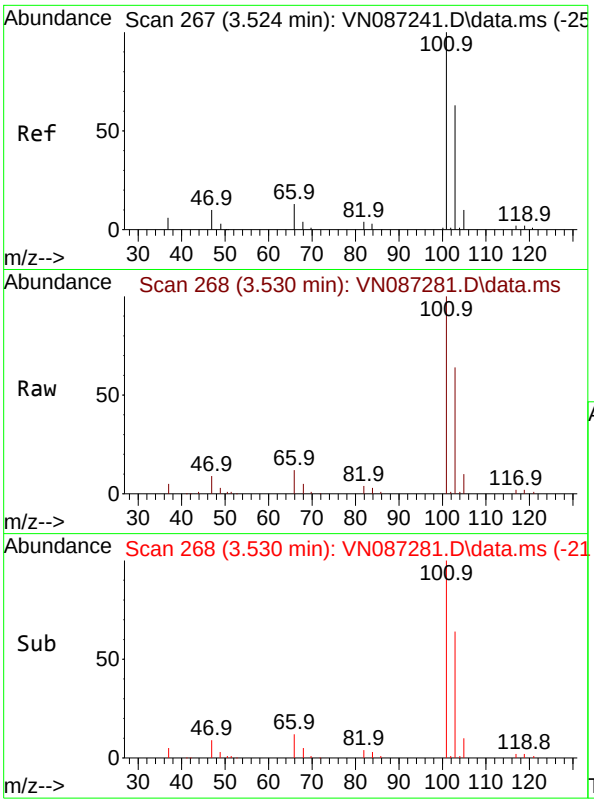


#6
Chloroethane
Concen: 44.212 ug/l
RT: 3.148 min Scan# 203
Delta R.T. -0.006 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Tgt Ion: 64 Resp: 86405

Ion	Ratio	Lower	Upper
64	100		
66	29.6	25.3	37.9



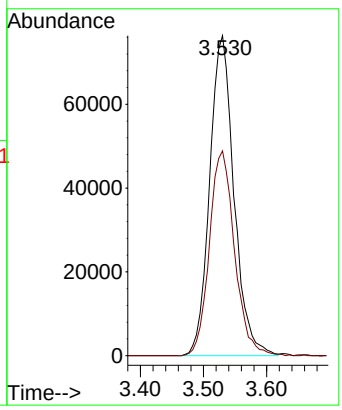


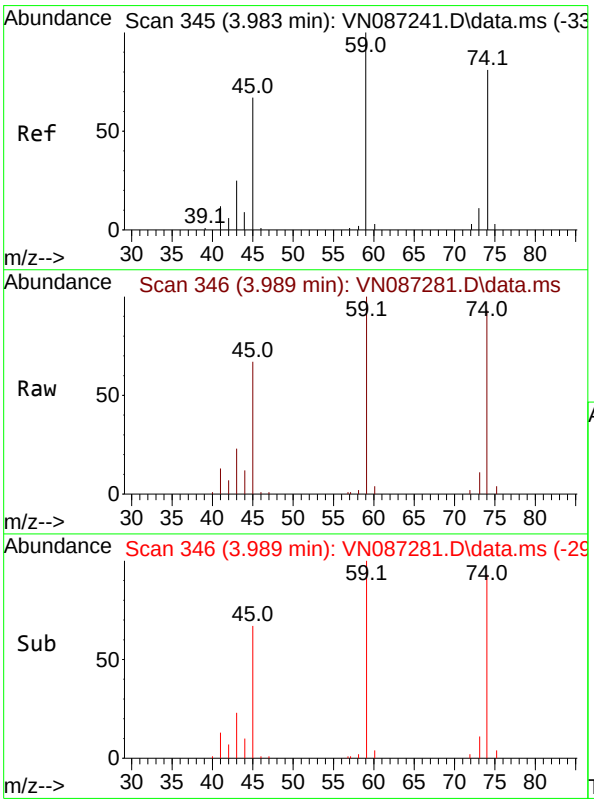
#7
Trichlorofluoromethane
Concen: 47.707 ug/l
RT: 3.530 min Scan# 2
Delta R.T. 0.006 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Instrument :
MSVOA_N
ClientSampleId :
BFB

Tgt Ion:101 Resp: 204251

Ion	Ratio	Lower	Upper
101	100		
103	64.0	50.5	75.7

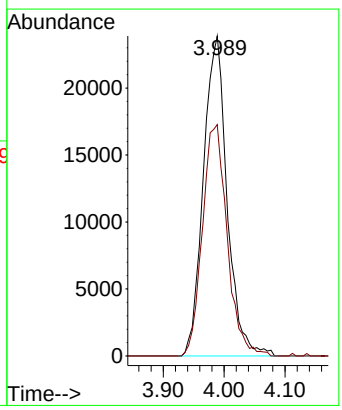


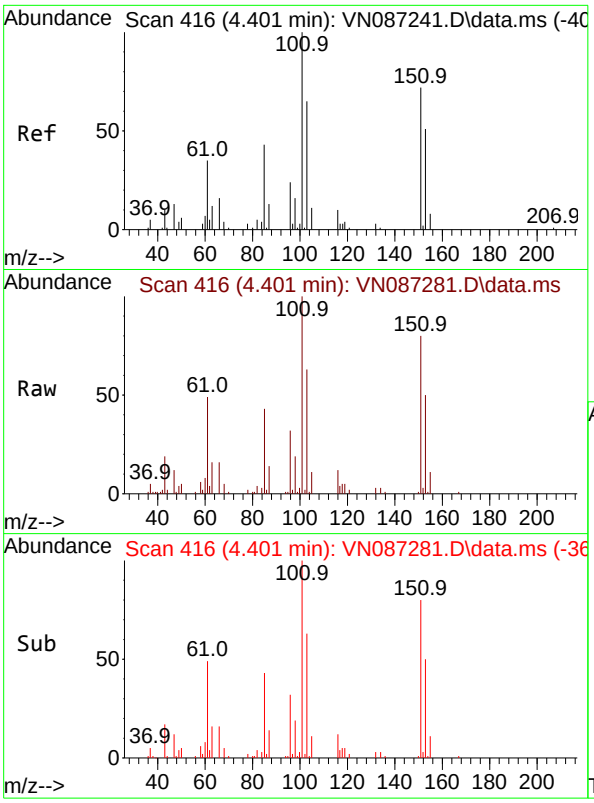


#8
Diethyl Ether
Concen: 47.343 ug/l
RT: 3.989 min Scan# 346
Delta R.T. 0.006 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Tgt Ion: 74 Resp: 64685

Ion	Ratio	Lower	Upper
74	100		
45	75.3	39.4	118.1



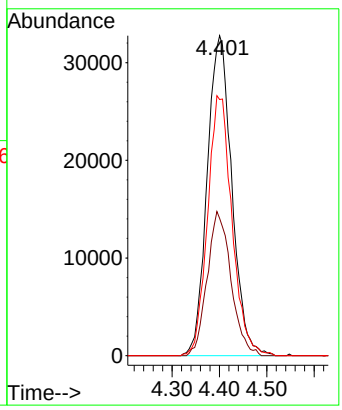


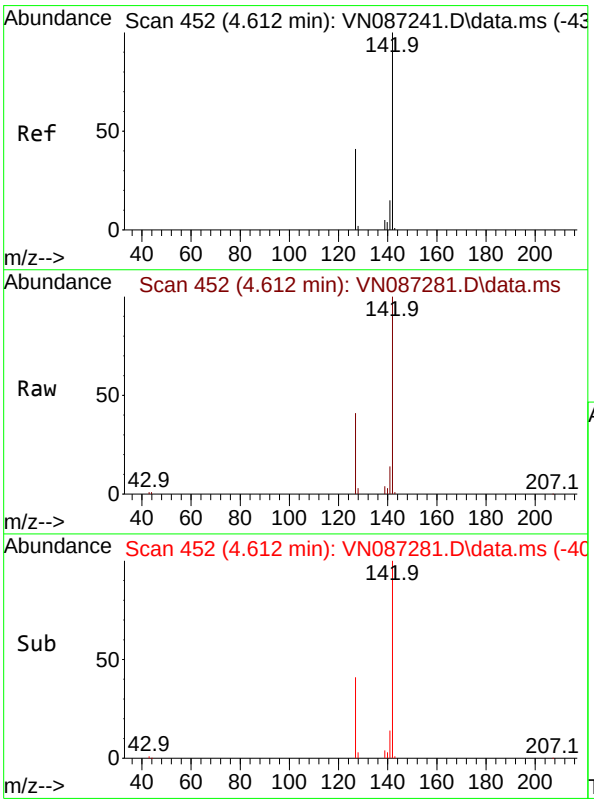
#9
1,1,2-Trichlorotrifluoroethane
Concen: 47.574 ug/l
RT: 4.401 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Instrument :
MSVOA_N
ClientSampleId :
BFB

Tgt Ion:101 Resp: 118254

Ion	Ratio	Lower	Upper
101	100		
85	43.5	34.4	51.6
151	80.6	63.8	95.8

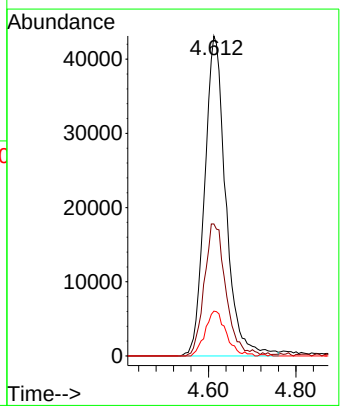


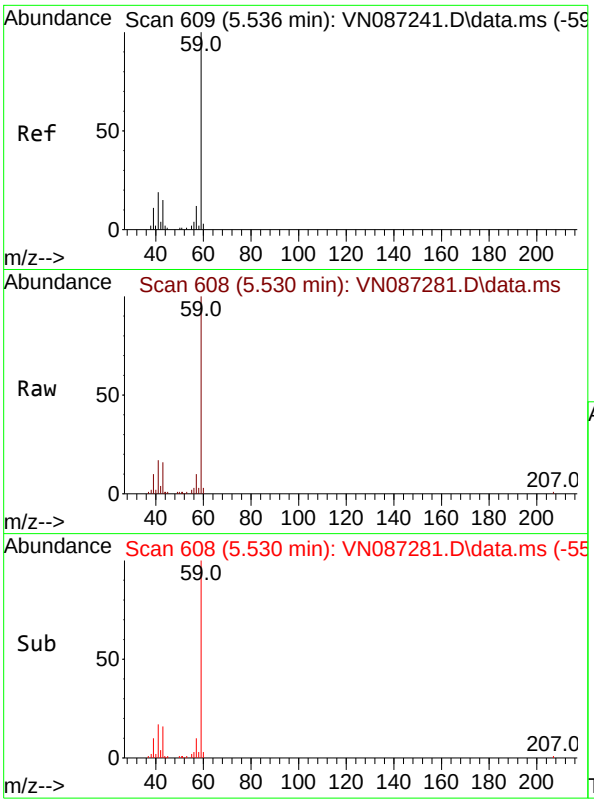


#10
Methyl Iodide
Concen: 58.398 ug/l
RT: 4.612 min Scan# 452
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Tgt Ion:142 Resp: 144037

Ion	Ratio	Lower	Upper
142	100		
127	41.3	32.8	49.2
141	14.0	11.6	17.4



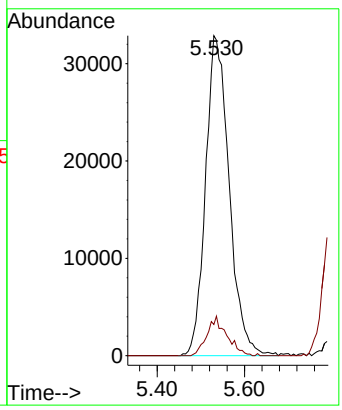


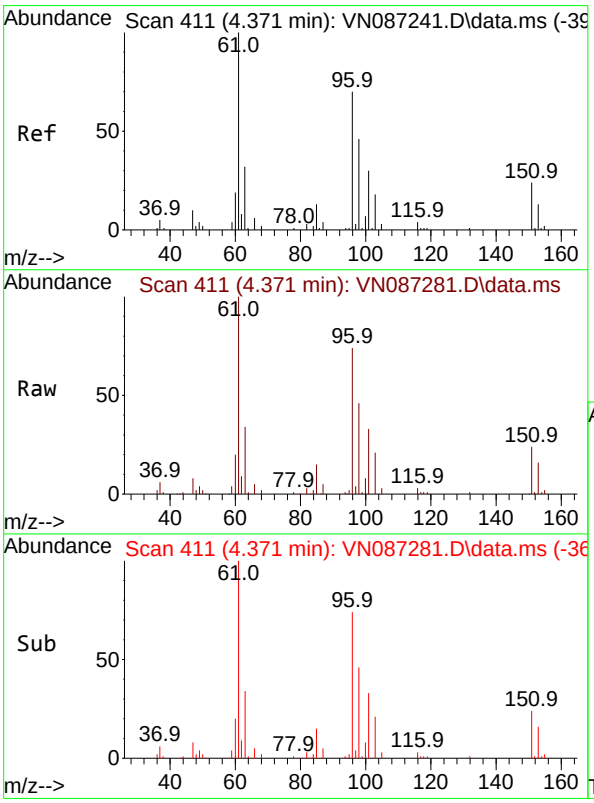
#11
Tert butyl alcohol
Concen: 212.213 ug/l
RT: 5.530 min Scan# 6
Delta R.T. -0.006 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Instrument :
MSVOA_N
ClientSampleId :
BFB

Tgt Ion: 59 Resp: 123273

Ion	Ratio	Lower	Upper
59	100		
57	10.3	8.6	12.8

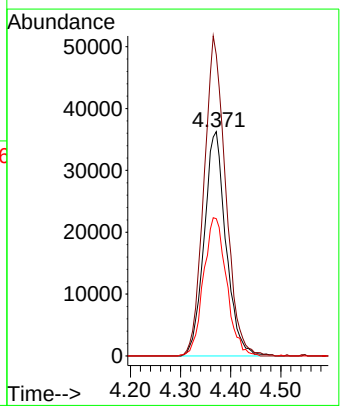


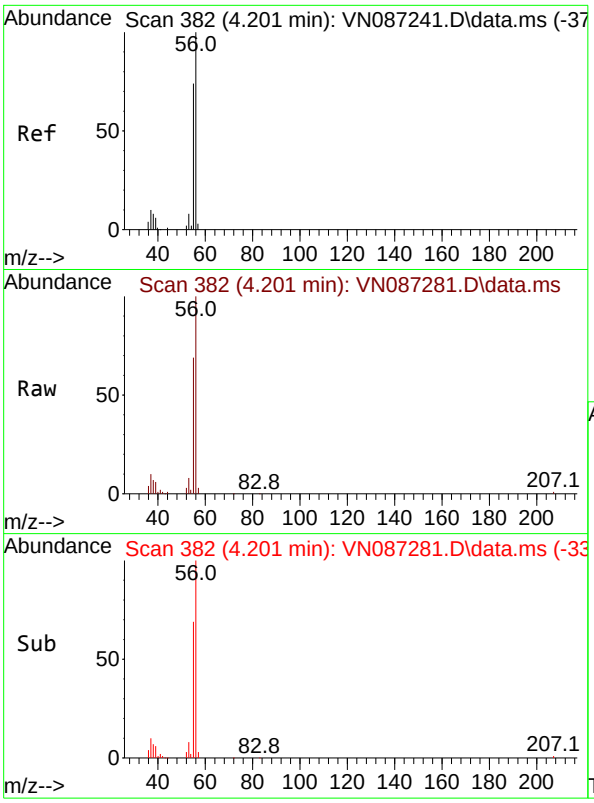


#12
1,1-Dichloroethene
Concen: 46.306 ug/l
RT: 4.371 min Scan# 411
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Tgt Ion: 96 Resp: 109348

Ion	Ratio	Lower	Upper
96	100		
61	134.3	114.4	171.6
98	61.2	53.0	79.6



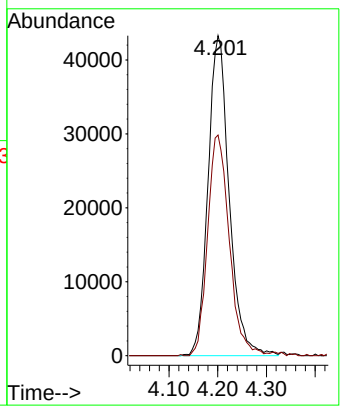


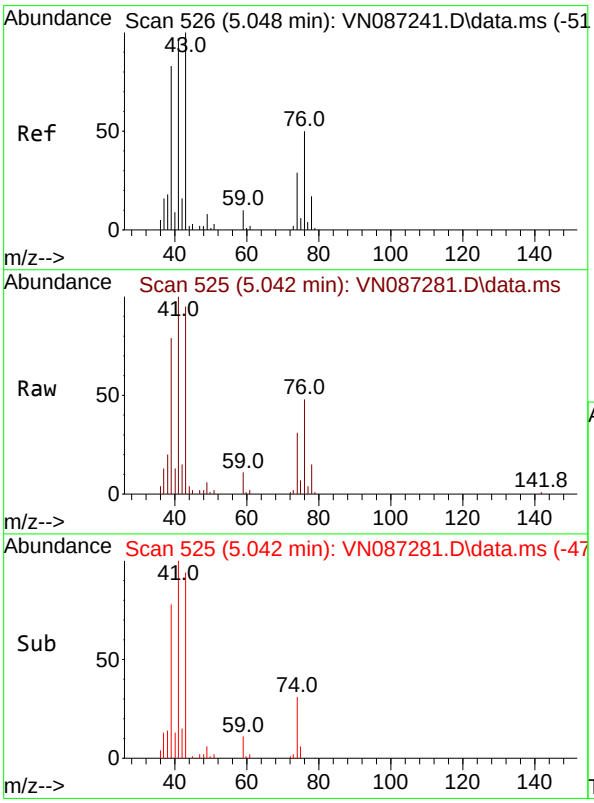
#13
Acrolein
Concen: 323.846 ug/l
RT: 4.201 min Scan# 3
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Instrument :
MSVOA_N
ClientSampleId :
BFB

Tgt Ion: 56 Resp: 130294

Ion	Ratio	Lower	Upper
56	100		
55	70.7	58.6	88.0

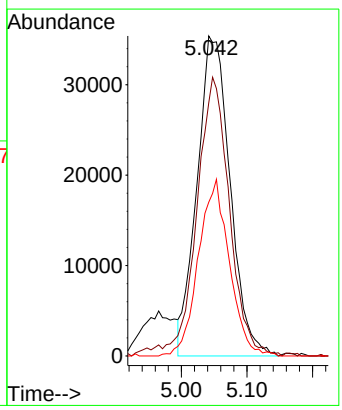


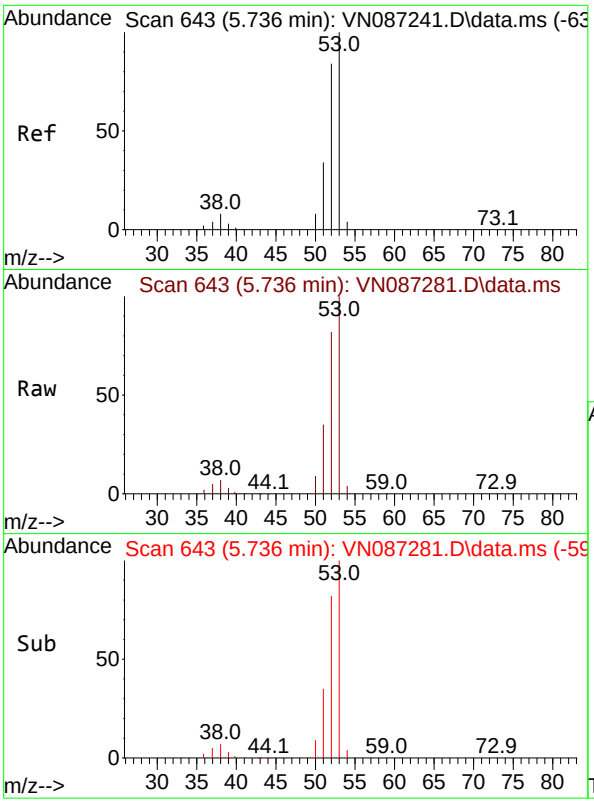


#14
Allyl chloride
Concen: 42.842 ug/l
RT: 5.042 min Scan# 525
Delta R.T. -0.006 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Tgt Ion: 41 Resp: 123989

Ion	Ratio	Lower	Upper
41	100		
39	86.9	66.3	99.5
76	51.7	38.6	58.0



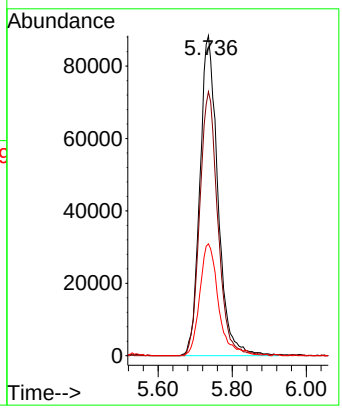


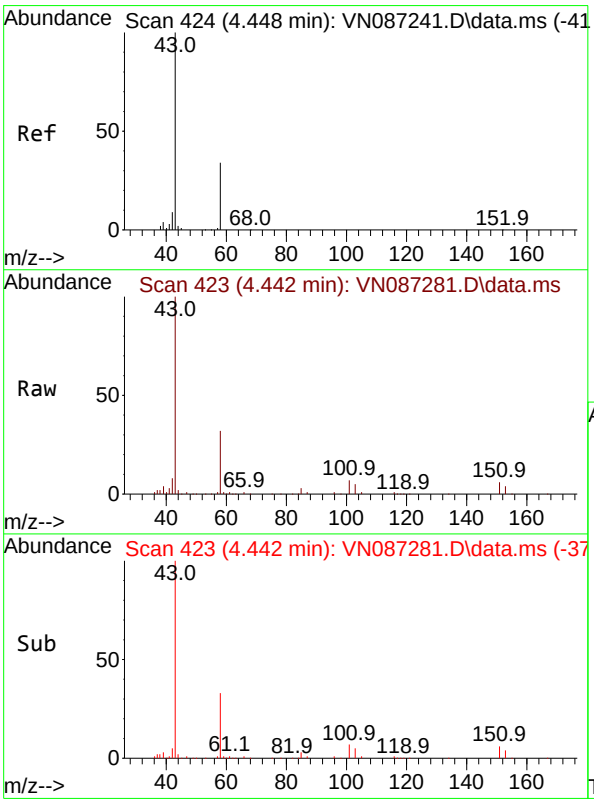
#15
Acrylonitrile
Concen: 206.331 ug/l
RT: 5.736 min Scan# 64
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Instrument :
MSVOA_N
ClientSampleId :
BFB

Tgt Ion: 53 Resp: 298388

Ion	Ratio	Lower	Upper
53	100		
52	82.9	66.5	99.7
51	36.5	29.1	43.7

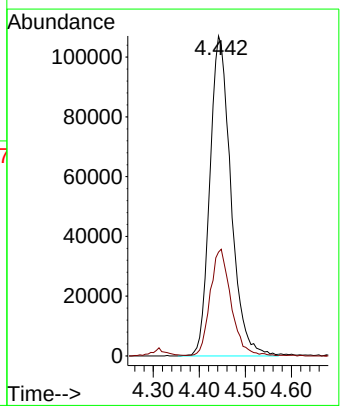


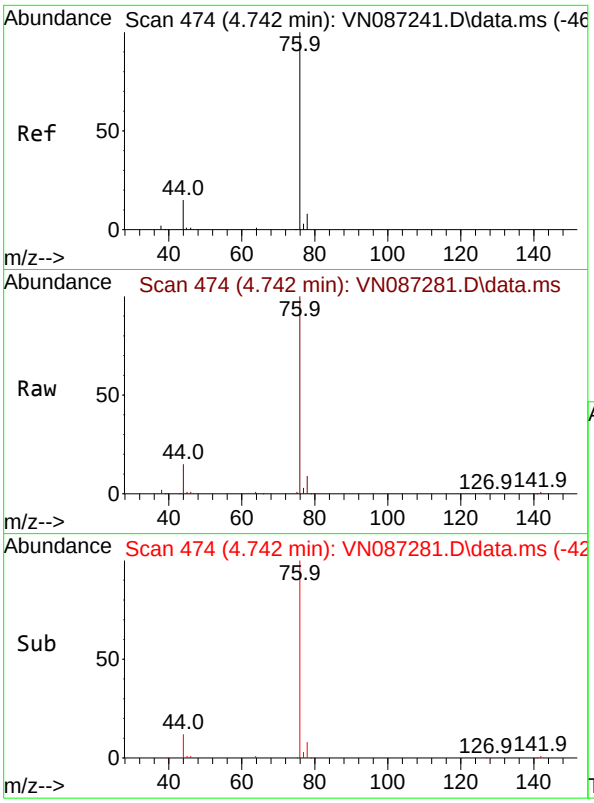


#16
Acetone
Concen: 278.864 ug/l
RT: 4.442 min Scan# 423
Delta R.T. -0.006 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Tgt Ion: 43 Resp: 339816

Ion	Ratio	Lower	Upper
43	100		
58	32.2	27.1	40.7



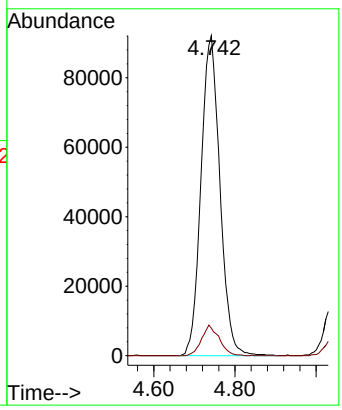


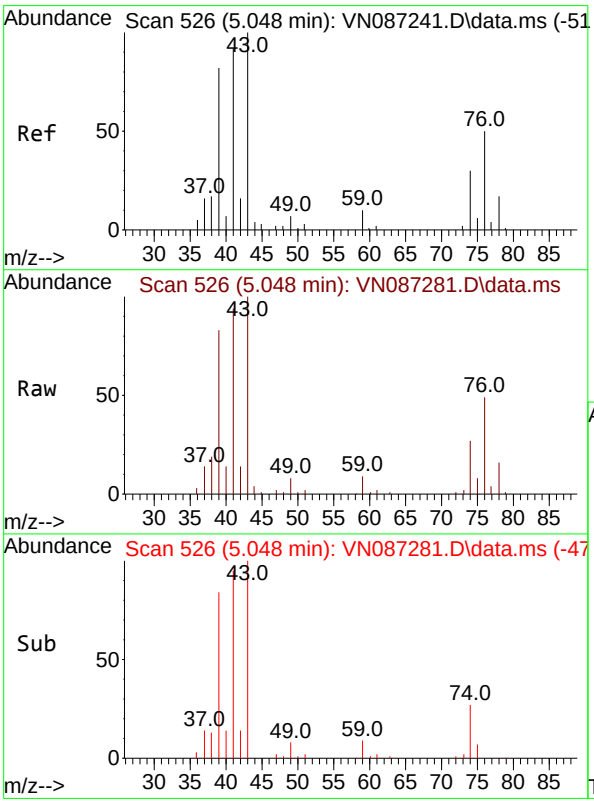
#17
Carbon Disulfide
Concen: 42.060 ug/l
RT: 4.742 min Scan# 4
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Instrument :
MSVOA_N
ClientSampleId :
BFB

Tgt Ion: 76 Resp: 297996

Ion	Ratio	Lower	Upper
76	100		
78	8.6	6.8	10.2

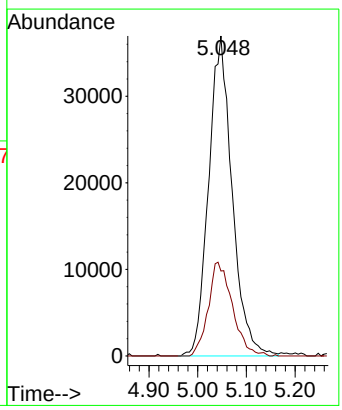


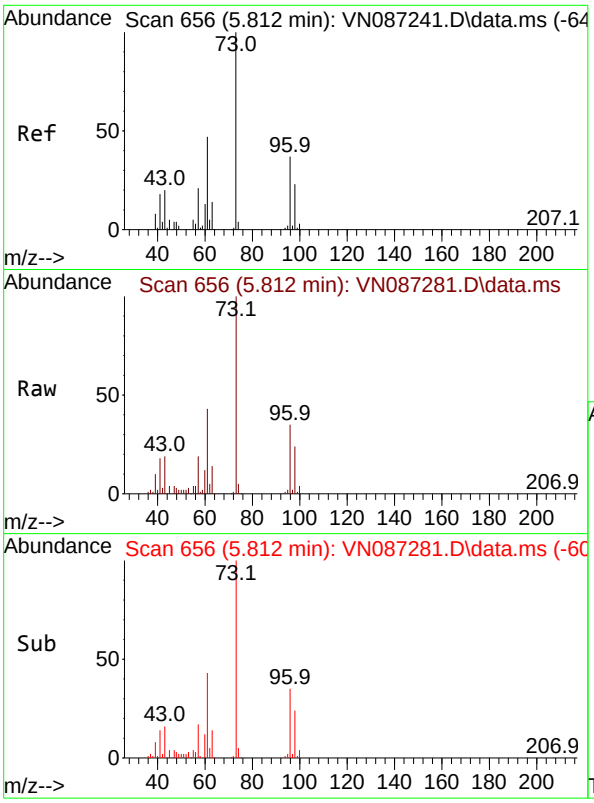


#18
Methyl Acetate
Concen: 44.368 ug/l
RT: 5.048 min Scan# 526
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Tgt Ion: 43 Resp: 123771

Ion	Ratio	Lower	Upper
43	100		
74	30.0	23.8	35.6



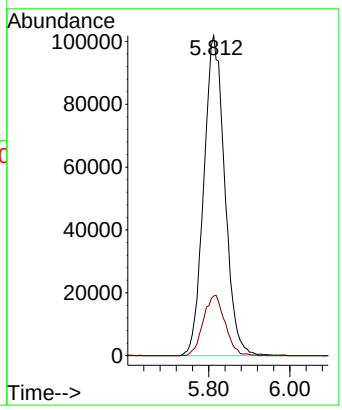


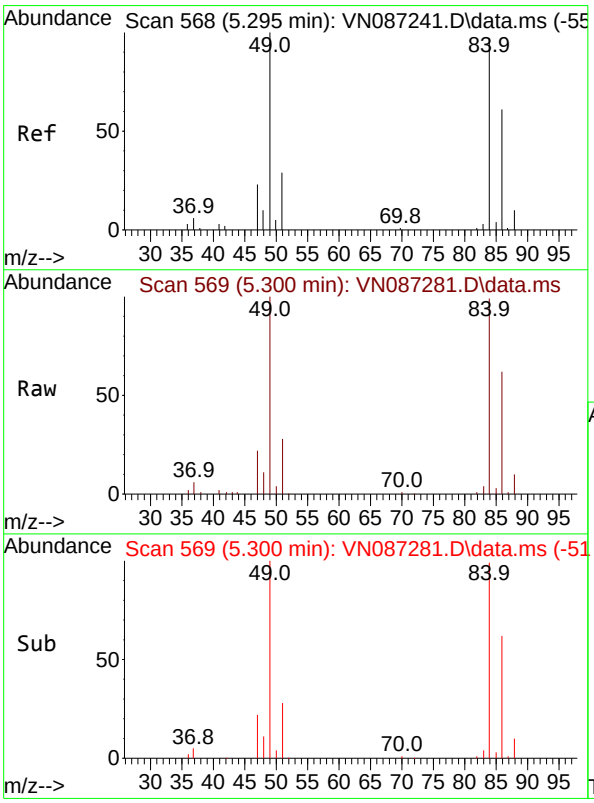
#19
Methyl tert-butyl Ether
Concen: 44.047 ug/l
RT: 5.812 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Instrument :
MSVOA_N
ClientSampleId :
BFB

Tgt Ion: 73 Resp: 364538

Ion	Ratio	Lower	Upper
73	100		
57	18.7	16.7	25.1

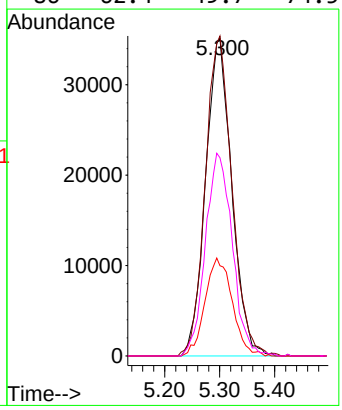


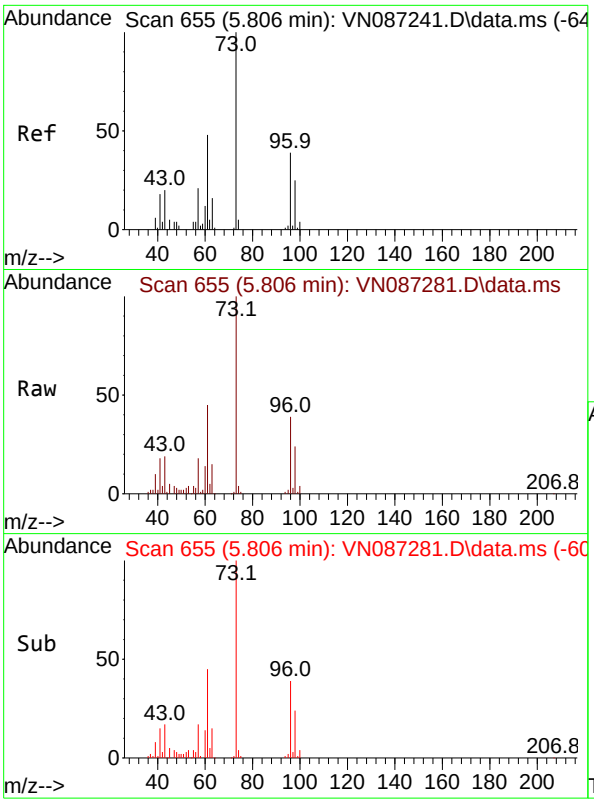


#20
Methylene Chloride
Concen: 43.078 ug/l
RT: 5.300 min Scan# 569
Delta R.T. 0.006 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Tgt Ion: 84 Resp: 116286

Ion	Ratio	Lower	Upper
84	100		
49	100.8	82.1	123.1
51	28.4	23.5	35.3
86	62.4	49.7	74.5



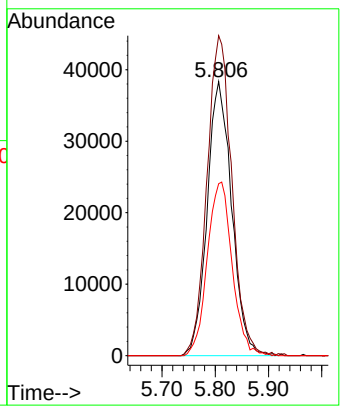


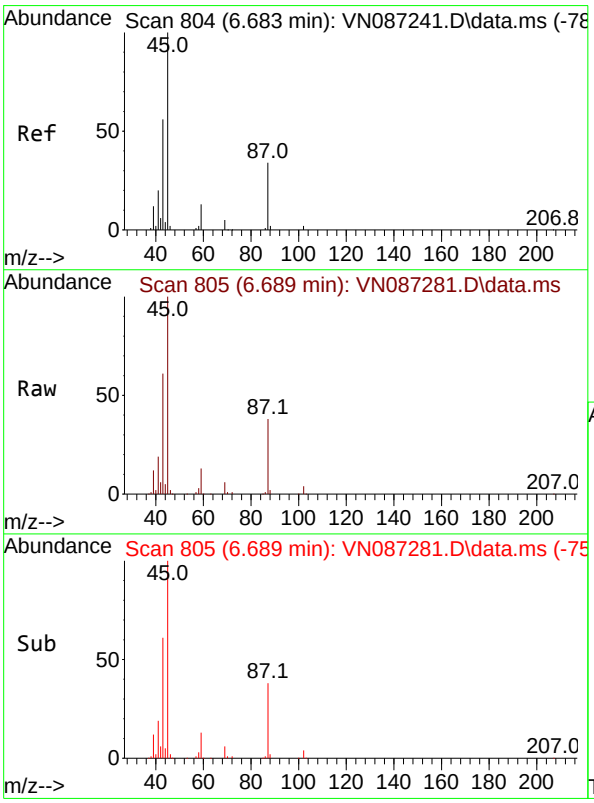
#21
trans-1,2-Dichloroethene
Concen: 43.046 ug/l
RT: 5.806 min Scan# 6
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Instrument :
MSVOA_N
ClientSampleId :
BFB

Tgt Ion: 96 Resp: 122830

Ion	Ratio	Lower	Upper
96	100		
61	116.7	98.2	147.2
98	62.7	50.0	75.0

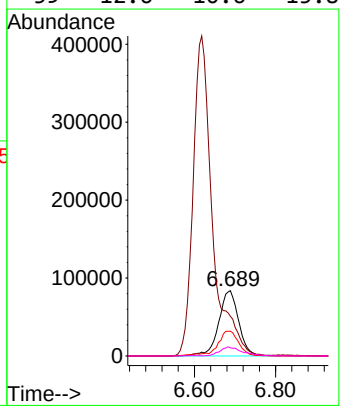


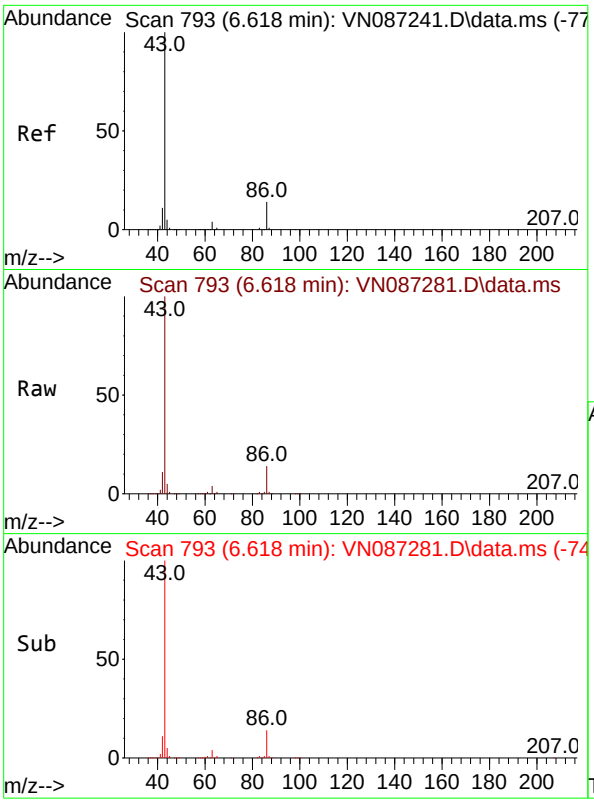


#22
Diisopropyl ether
Concen: 41.308 ug/l
RT: 6.689 min Scan# 805
Delta R.T. 0.006 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Tgt Ion: 45 Resp: 286230

Ion	Ratio	Lower	Upper
45	100		
43	59.0	50.1	75.1
87	38.0	27.5	41.3
59	12.6	10.6	15.8



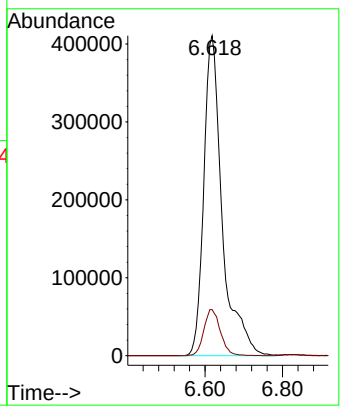


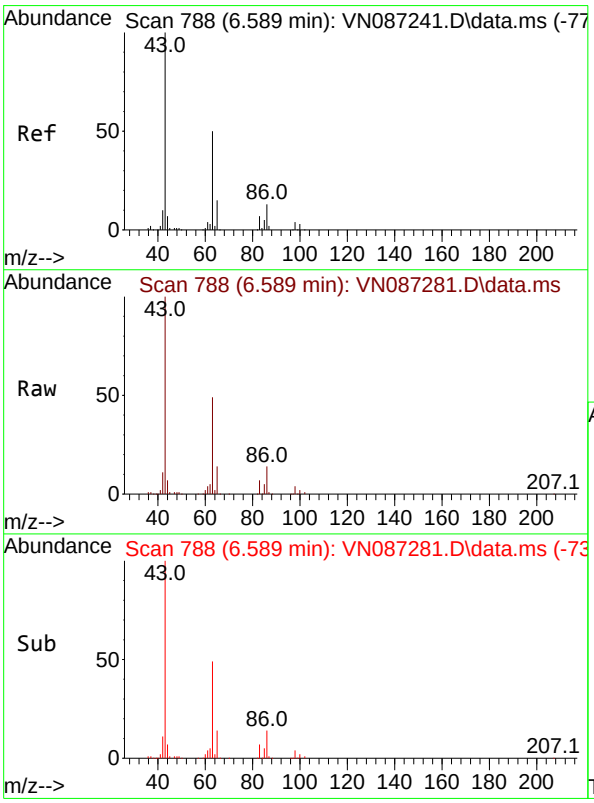
#23
Vinyl Acetate
Concen: 211.816 ug/l
RT: 6.618 min Scan# 7
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Instrument :
MSVOA_N
ClientSampleId :
BFB

Tgt Ion: 43 Resp: 1357384

Ion	Ratio	Lower	Upper
43	100		
86	14.4	11.0	16.4

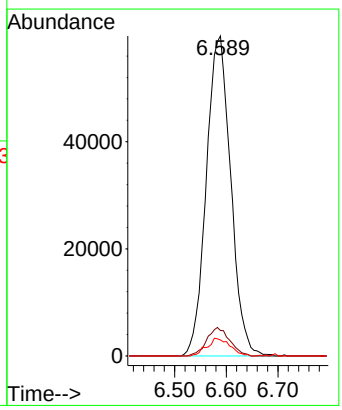


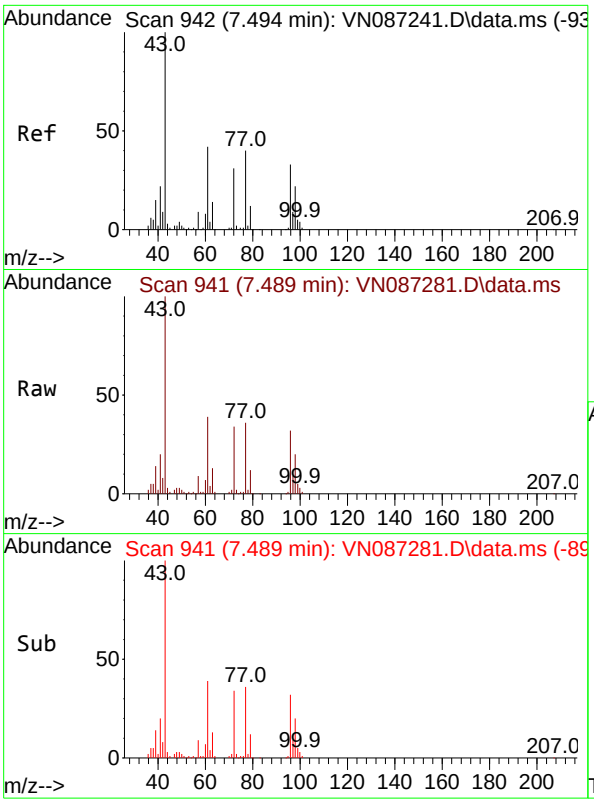


#24
1,1-Dichloroethane
Concen: 43.193 ug/l
RT: 6.589 min Scan# 788
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Tgt Ion: 63 Resp: 196095

Ion	Ratio	Lower	Upper
63	100		
98	7.9	3.5	10.6
100	5.0	2.7	8.1



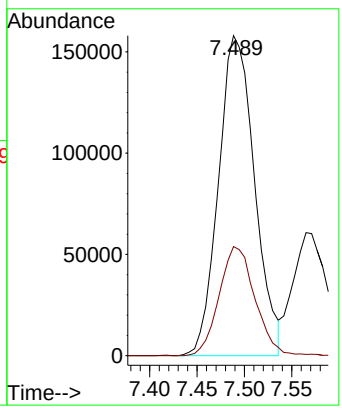


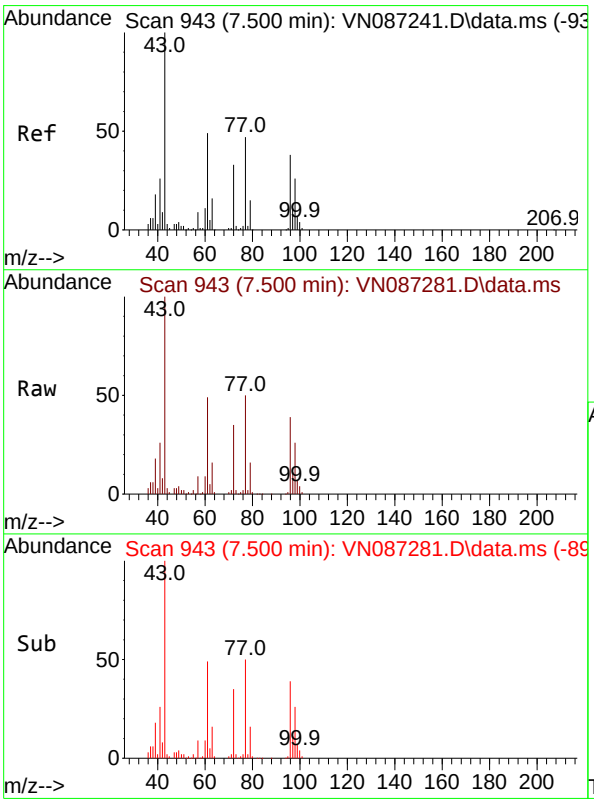
#25
2-Butanone
Concen: 220.030 ug/l
RT: 7.489 min Scan# 94
Delta R.T. -0.006 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Instrument :
MSVOA_N
ClientSampleId :
BFB

Tgt Ion: 43 Resp: 419009

Ion	Ratio	Lower	Upper
43	100		
72	34.1	24.8	37.2

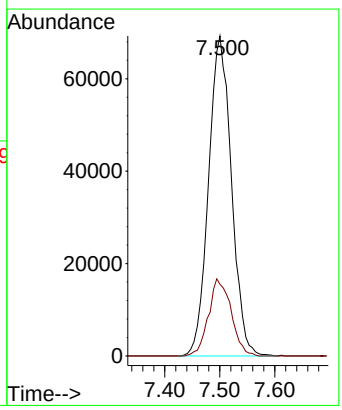


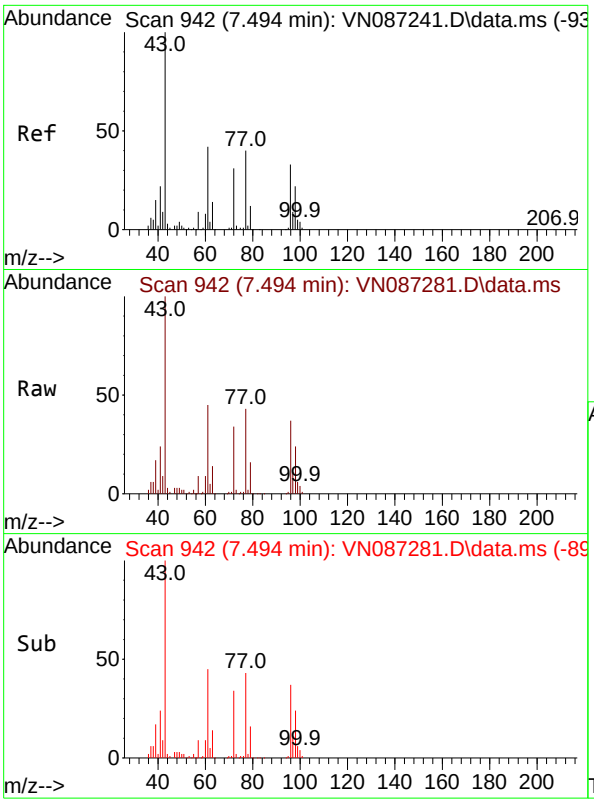


#26
2,2-Dichloropropane
Concen: 46.083 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Tgt Ion: 77 Resp: 200200

Ion	Ratio	Lower	Upper
77	100		
97	23.8	11.8	35.3



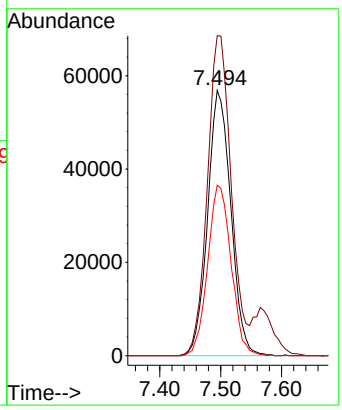


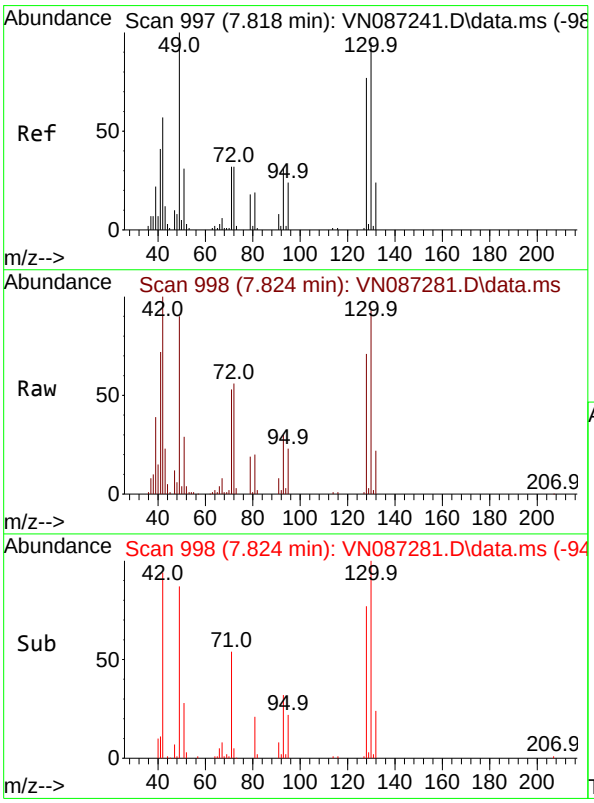
#27
cis-1,2-Dichloroethene
Concen: 45.762 ug/l
RT: 7.494 min Scan# 94
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Instrument :
MSVOA_N
ClientSampleId :
BFB

Tgt Ion: 96 Resp: 150800

Ion	Ratio	Lower	Upper
96	100		
61	124.1	0.0	258.8
98	64.6	0.0	130.8

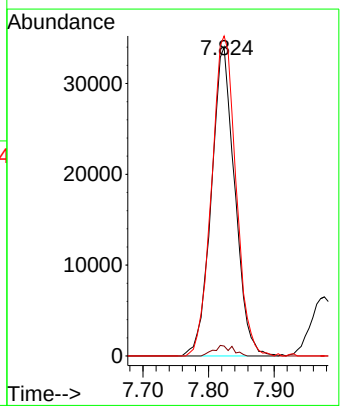


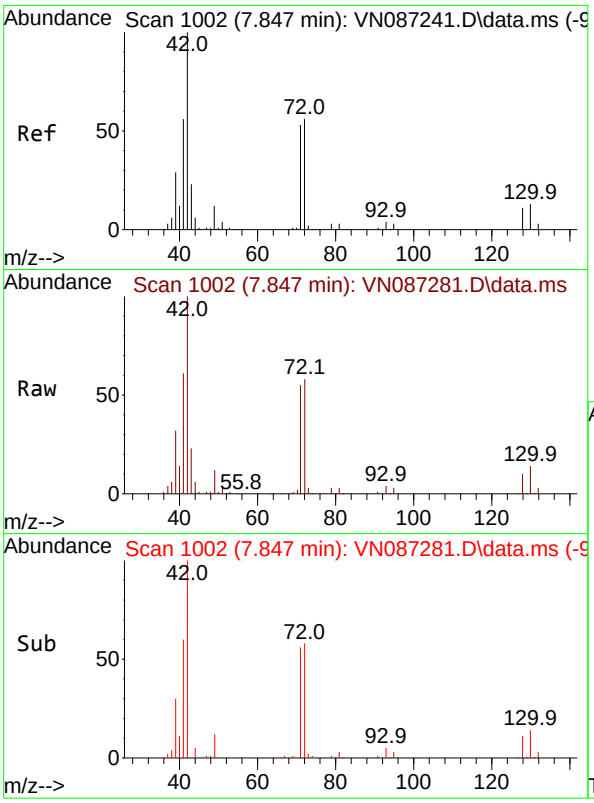


#28
Bromochloromethane
Concen: 42.171 ug/l
RT: 7.824 min Scan# 998
Delta R.T. 0.006 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Tgt Ion: 49 Resp: 84507

Ion	Ratio	Lower	Upper
49	100		
129	2.8	0.0	4.8
130	107.6	78.4	117.6



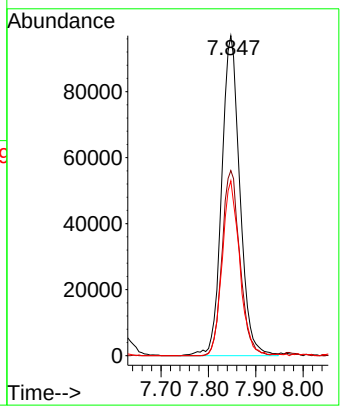


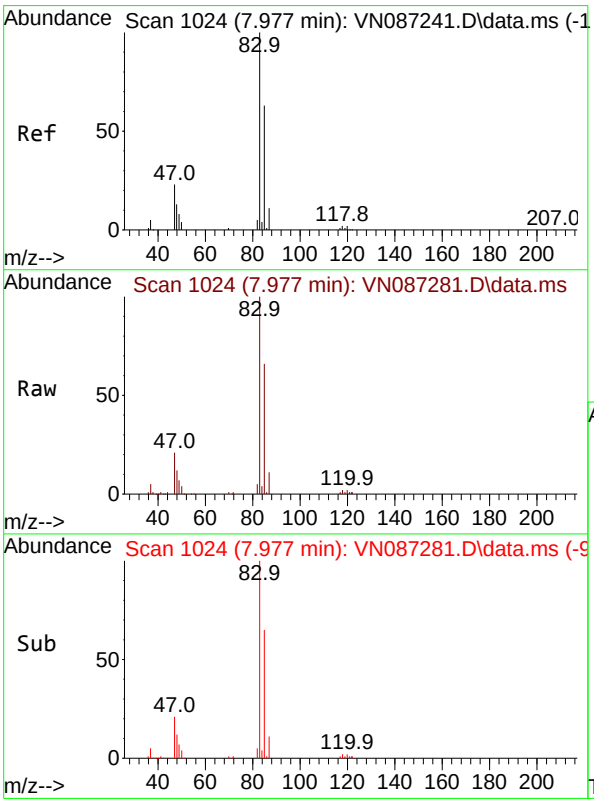
#29
Tetrahydrofuran
Concen: 210.294 ug/l
RT: 7.847 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Instrument :
MSVOA_N
ClientSampleId :
BFB

Tgt Ion: 42 Resp: 258060

Ion	Ratio	Lower	Upper
42	100		
72	57.0	44.2	66.4
71	52.7	41.1	61.7

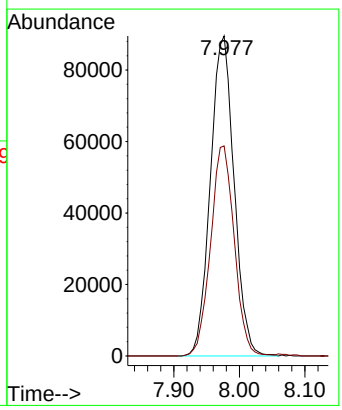


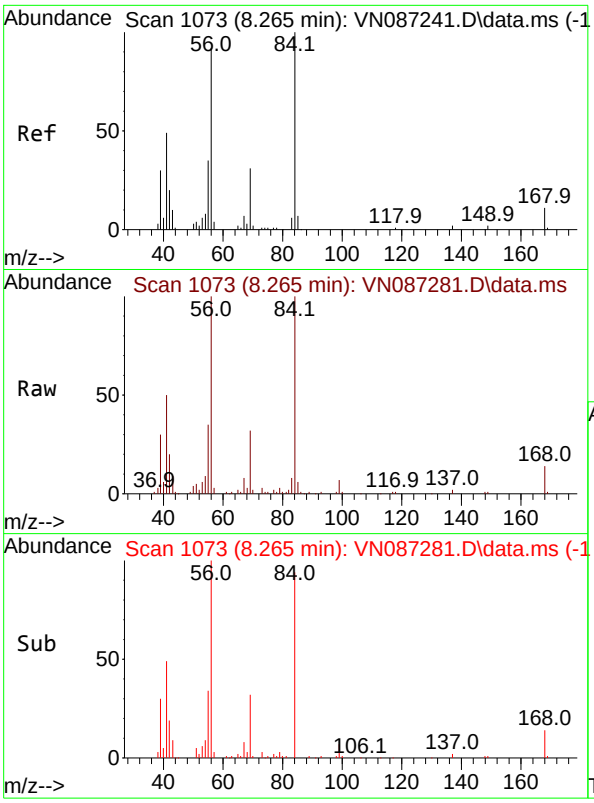


#30
Chloroform
Concen: 44.606 ug/l
RT: 7.977 min Scan# 1024
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Tgt Ion: 83 Resp: 224459

Ion	Ratio	Lower	Upper
83	100		
85	65.6	50.3	75.5



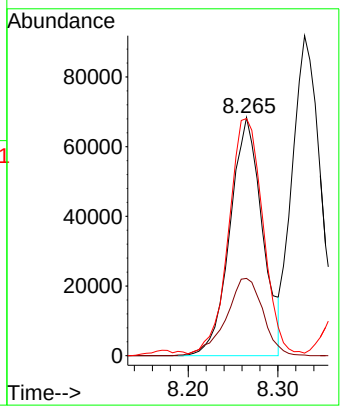


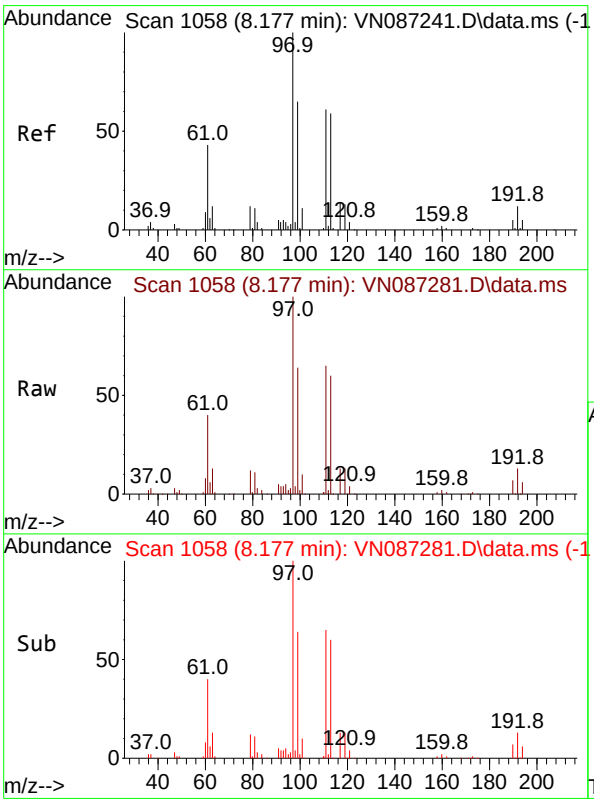
#31
Cyclohexane
Concen: 39.427 ug/l
RT: 8.265 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Instrument :
MSVOA_N
ClientSampleId :
BFB

Tgt Ion: 56 Resp: 171146

Ion	Ratio	Lower	Upper
56	100		
69	32.2	27.0	40.6
84	97.7	86.2	129.4

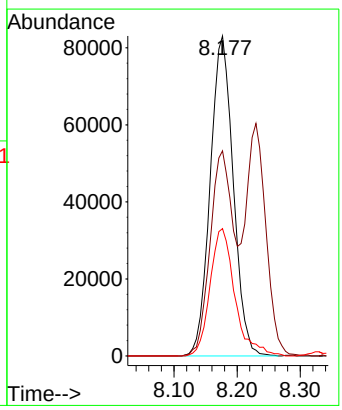


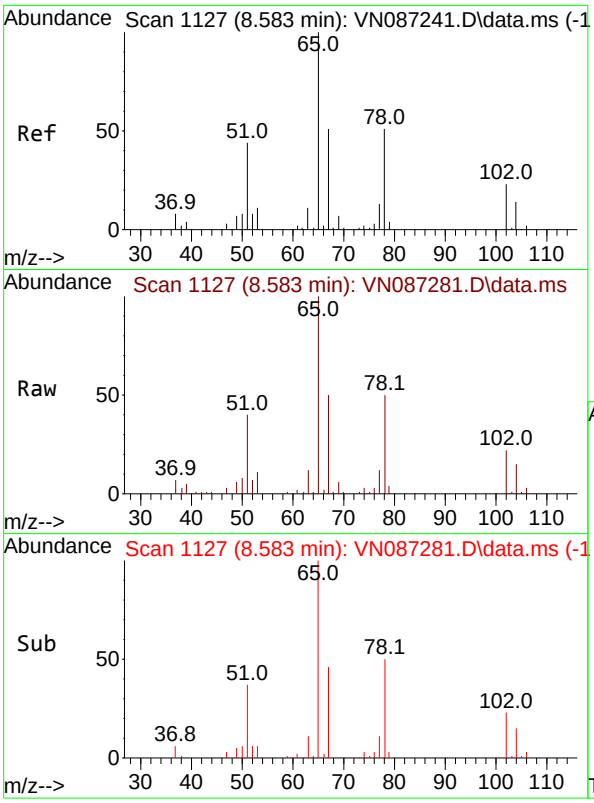


#32
1,1,1-Trichloroethane
Concen: 44.883 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Tgt Ion: 97 Resp: 210339

Ion	Ratio	Lower	Upper
97	100		
99	63.5	49.5	74.3
61	43.0	35.2	52.8



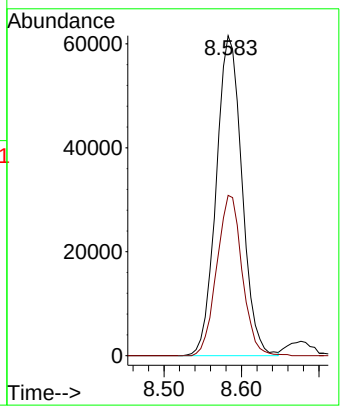


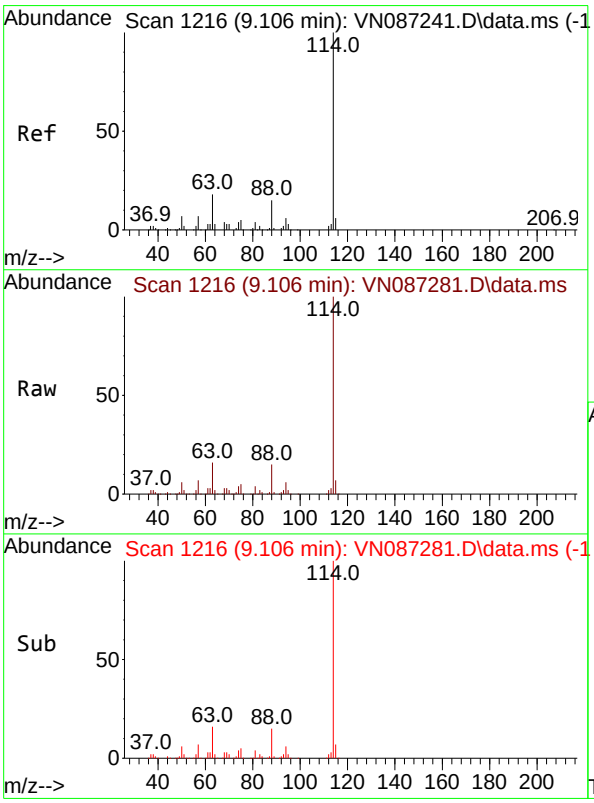
#33
1,2-Dichloroethane-d4
Concen: 44.547 ug/l
RT: 8.583 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Instrument :
MSVOA_N
ClientSampleId :
BFB

Tgt Ion: 65 Resp: 141986

Ion	Ratio	Lower	Upper
65	100		
67	49.6	0.0	102.6

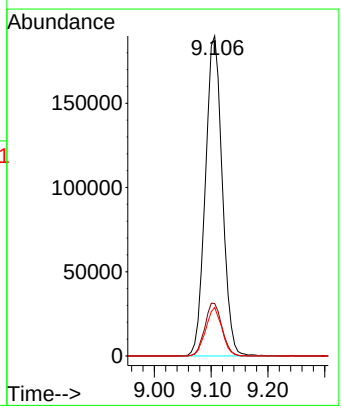


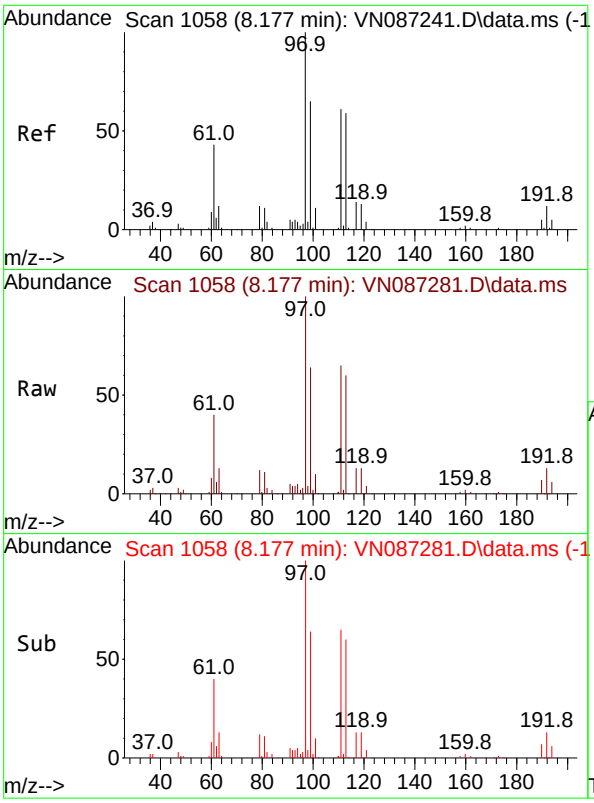


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Tgt Ion:114 Resp: 391455

Ion	Ratio	Lower	Upper
114	100		
63	16.4	0.0	36.6
88	15.1	0.0	29.6



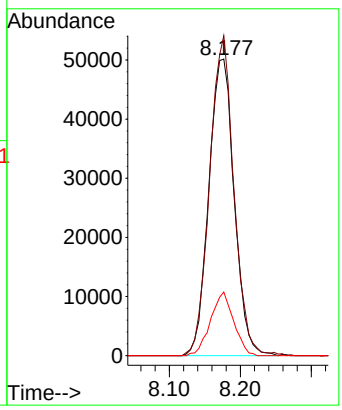


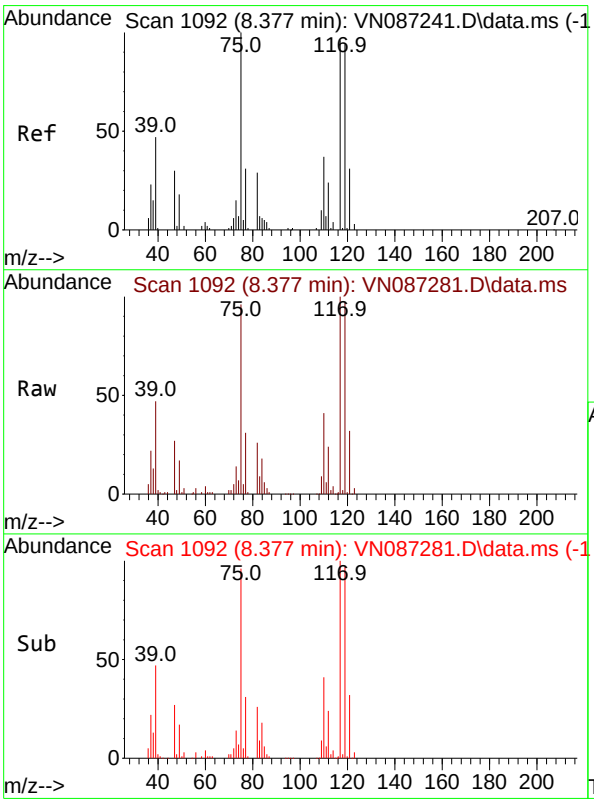
#35
Dibromofluoromethane
Concen: 49.761 ug/l
RT: 8.177 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Instrument :
MSVOA_N
ClientSampleId :
BFB

Tgt Ion:113 Resp: 124726

Ion	Ratio	Lower	Upper
113	100		
111	102.9	81.4	122.2
192	19.5	15.1	22.7

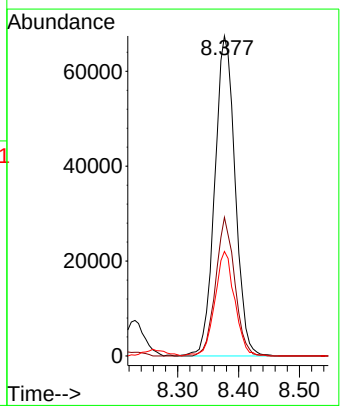


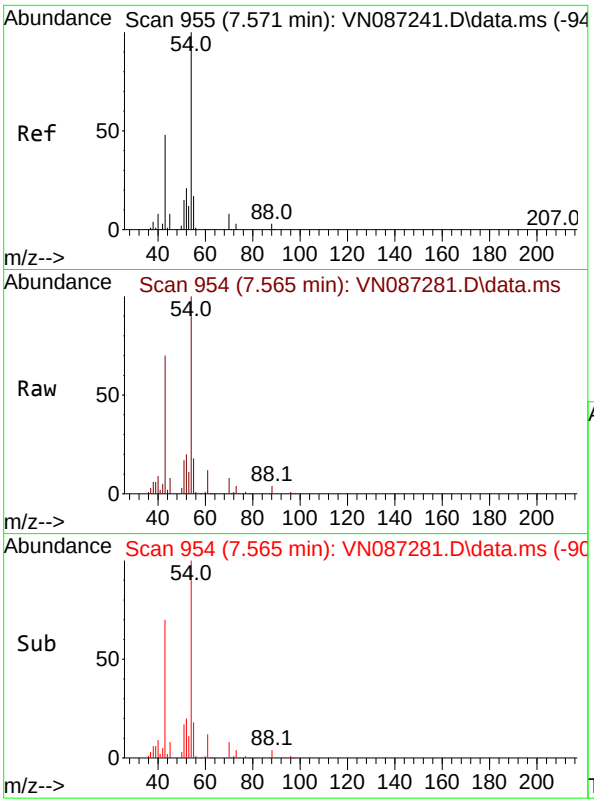


#36
1,1-Dichloropropene
Concen: 46.024 ug/l
RT: 8.377 min Scan# 1092
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Tgt Ion: 75 Resp: 156875

Ion	Ratio	Lower	Upper
75	100		
110	40.5	18.7	56.1
77	31.7	24.5	36.7



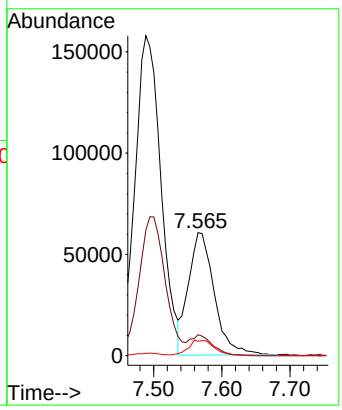


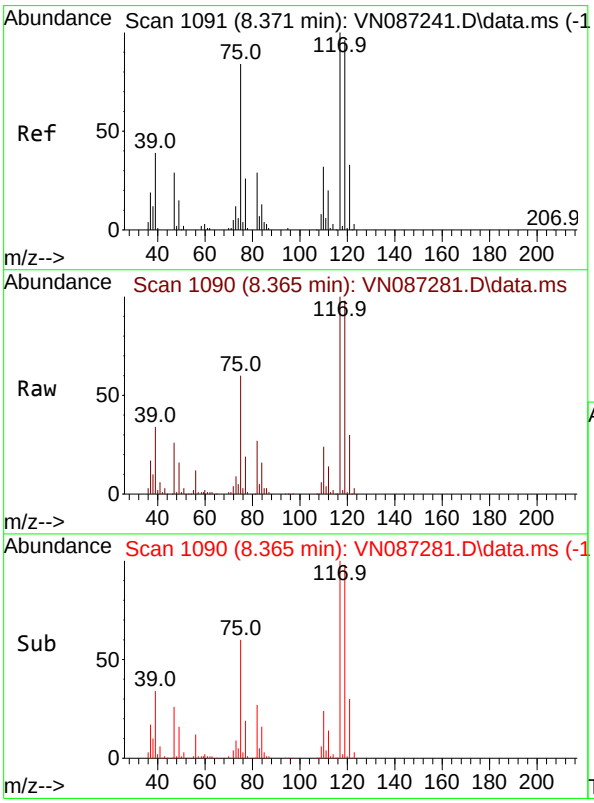
#37
Ethyl Acetate
Concen: 43.458 ug/l
RT: 7.565 min Scan# 9
Delta R.T. -0.006 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Instrument :
MSVOA_N
ClientSampleId :
BFB

Tgt Ion: 43 Resp: 159239

Ion	Ratio	Lower	Upper
43	100		
61	14.6	11.3	16.9
70	12.8	9.9	14.9

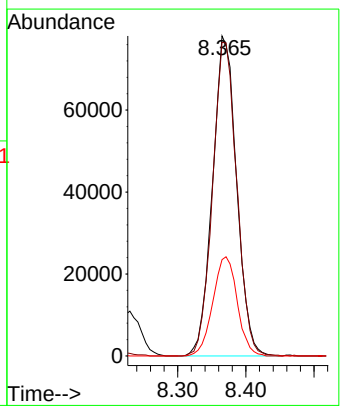


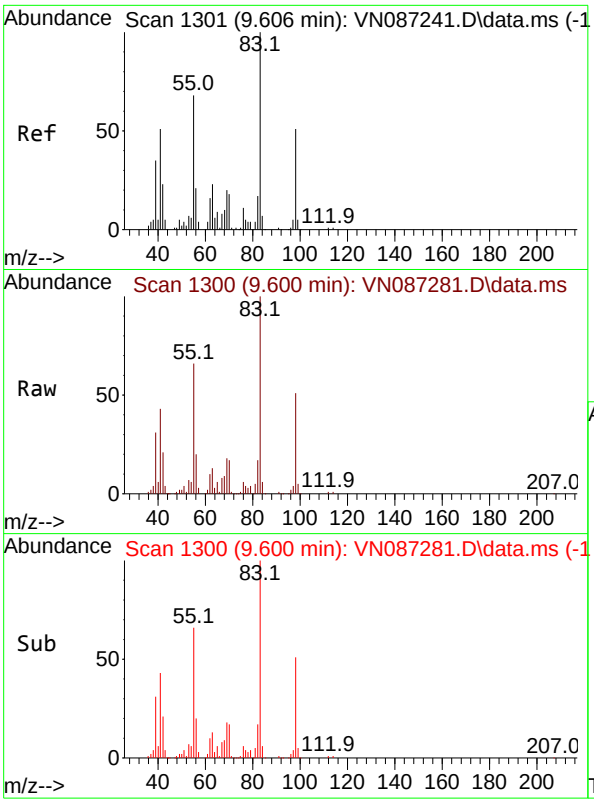


#38
Carbon Tetrachloride
Concen: 49.697 ug/l
RT: 8.365 min Scan# 1090
Delta R.T. -0.006 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Tgt Ion:117 Resp: 191948

Ion	Ratio	Lower	Upper
117	100		
119	98.0	77.2	115.8
121	30.1	26.6	39.8



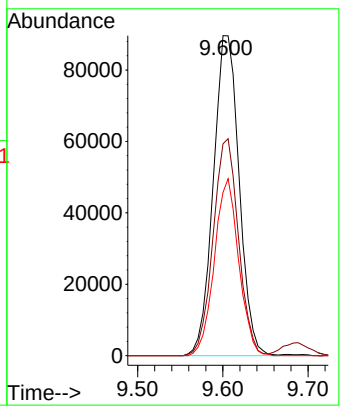


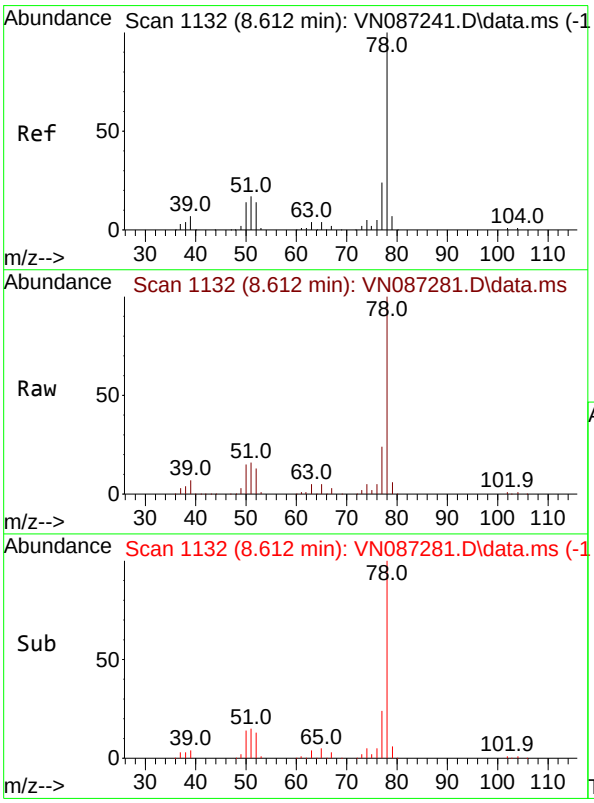
#39
Methylcyclohexane
Concen: 46.540 ug/l
RT: 9.600 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Instrument :
MSVOA_N
ClientSampleId :
BFB

Tgt Ion: 83 Resp: 188918

Ion	Ratio	Lower	Upper
83	100		
55	66.2	54.6	81.8
98	51.0	41.2	61.8

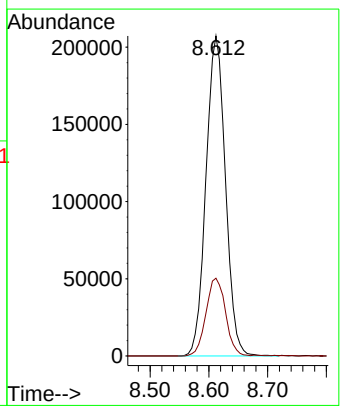


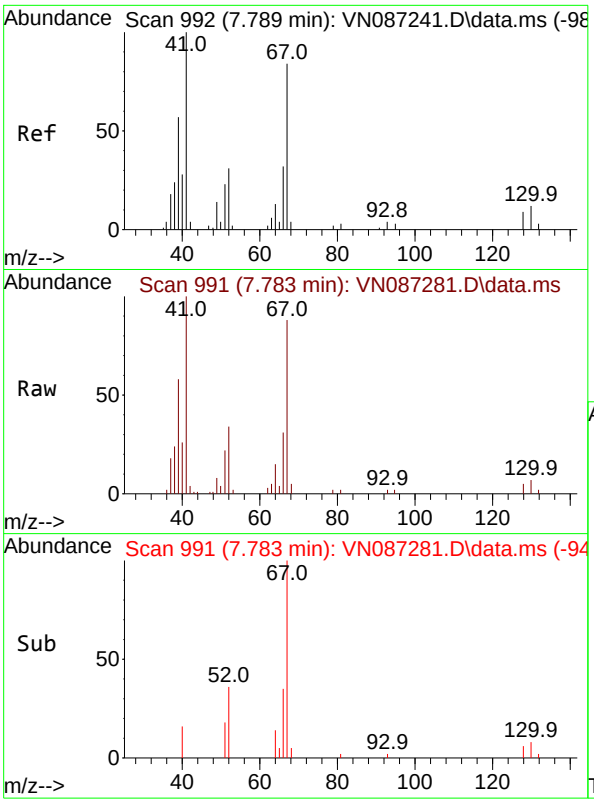


#40
Benzene
Concen: 45.178 ug/l
RT: 8.612 min Scan# 1132
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Tgt Ion: 78 Resp: 477085

Ion	Ratio	Lower	Upper
78	100		
77	24.3	19.5	29.3



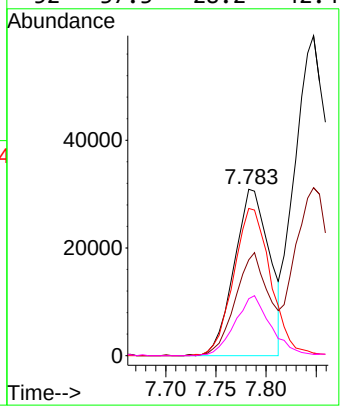


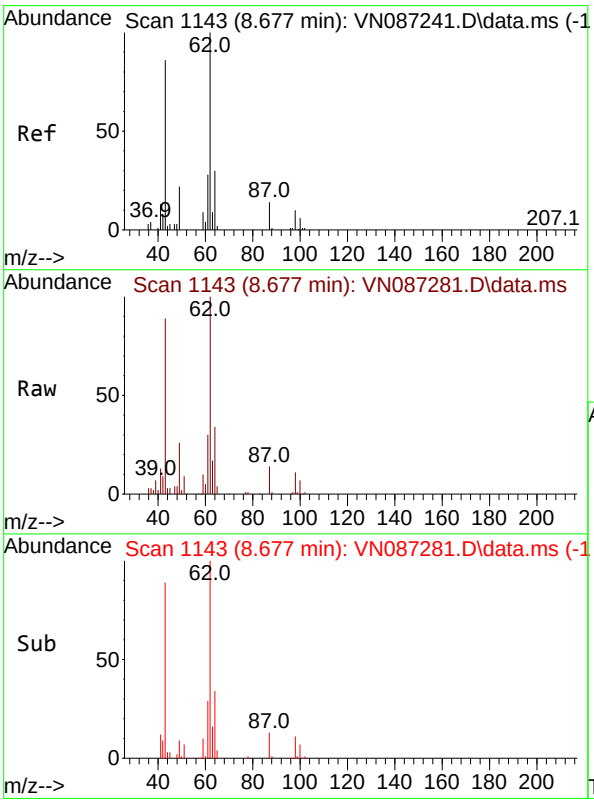
#41
Methacrylonitrile
Concen: 43.142 ug/l
RT: 7.783 min Scan# 9
Delta R.T. -0.006 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Instrument :
MSVOA_N
ClientSampleId :
BFB

Tgt Ion: 41 Resp: 75583

Ion	Ratio	Lower	Upper
41	100		
39	59.0	46.4	69.6
67	93.8	70.8	106.2
52	37.3	28.2	42.4

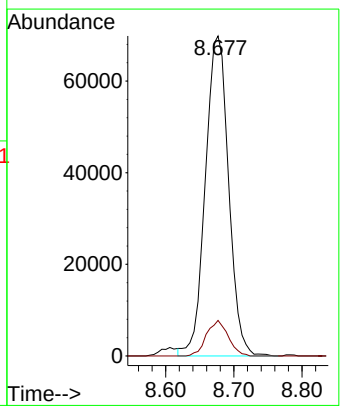


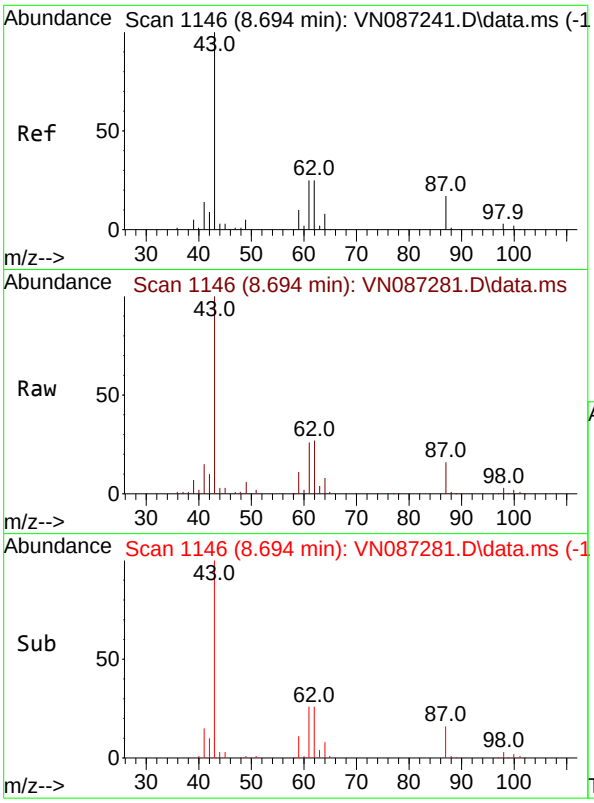


#42
1,2-Dichloroethane
Concen: 47.257 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Tgt Ion: 62 Resp: 165960

Ion	Ratio	Lower	Upper
62	100		
98	10.4	0.0	19.8



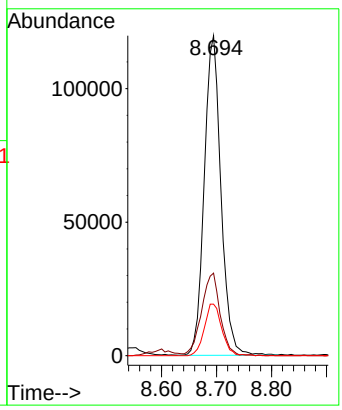


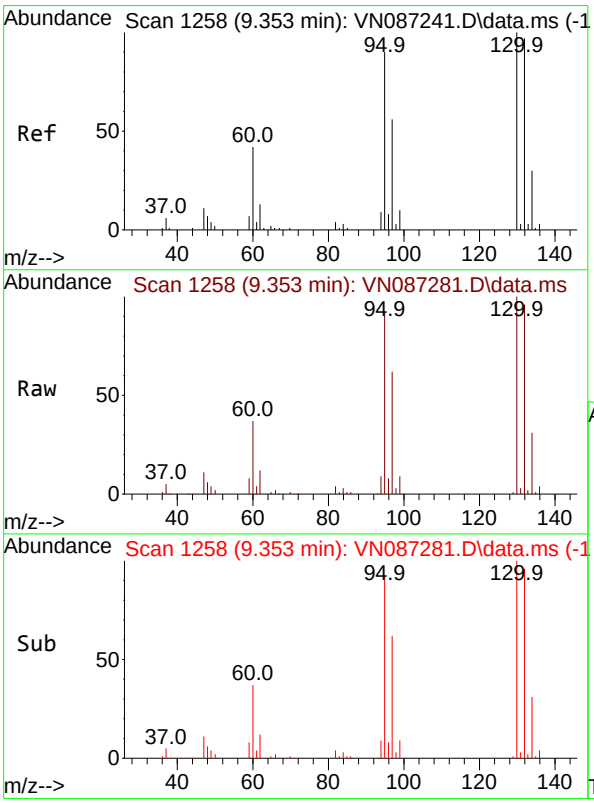
#43
Isopropyl Acetate
Concen: 44.481 ug/l
RT: 8.694 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Instrument :
MSVOA_N
ClientSampleId :
BFB

Tgt Ion: 43 Resp: 252759

Ion	Ratio	Lower	Upper
43	100		
61	28.1	22.4	33.6
87	16.9	12.8	19.2

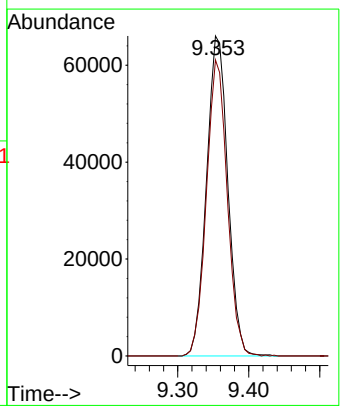


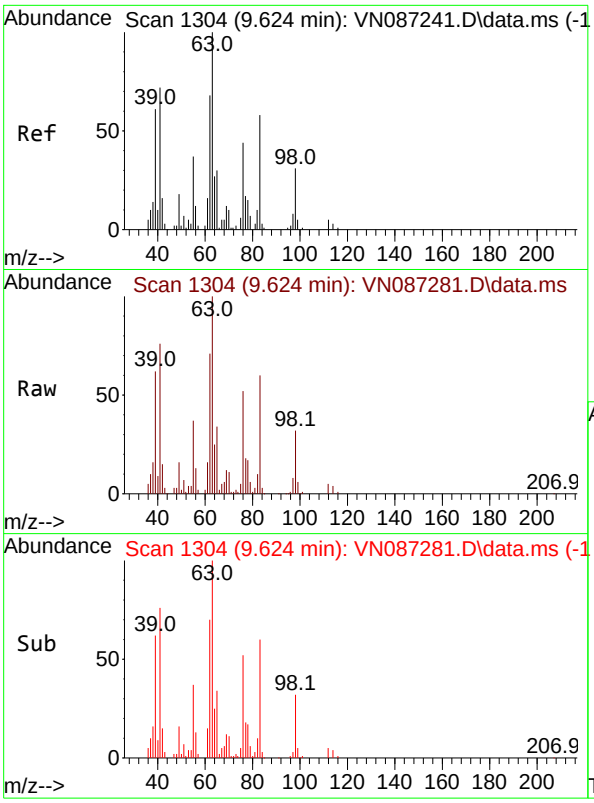


#44
Trichloroethene
Concen: 49.070 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Tgt Ion:130 Resp: 137691

Ion	Ratio	Lower	Upper
130	100		
95	92.5	0.0	179.2



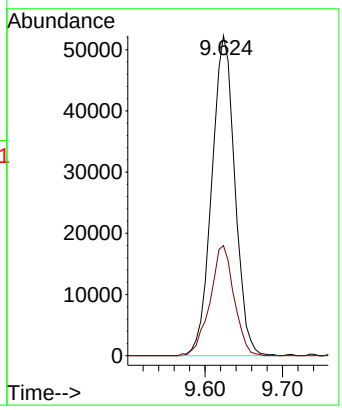


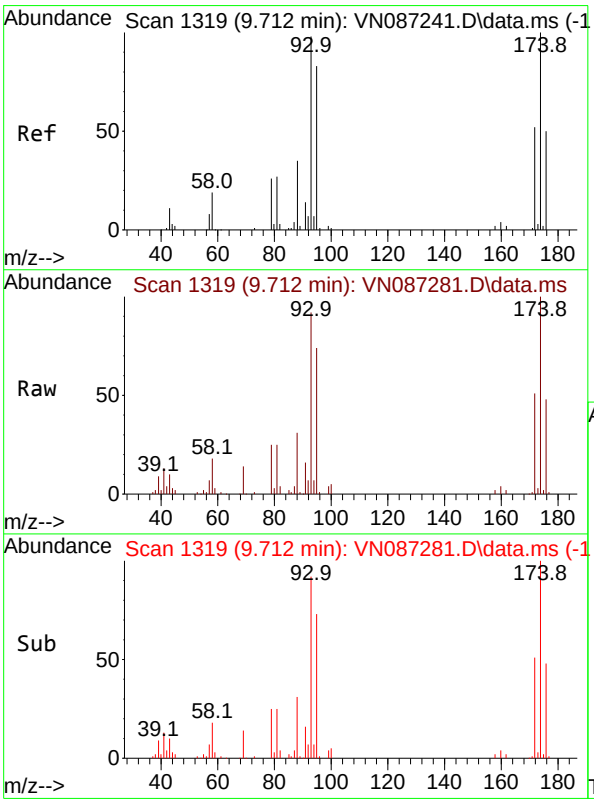
#45
1,2-Dichloropropane
Concen: 47.004 ug/l
RT: 9.624 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Instrument :
MSVOA_N
ClientSampleId :
BFB

Tgt Ion: 63 Resp: 108224

Ion	Ratio	Lower	Upper
63	100		
65	34.4	23.8	35.8

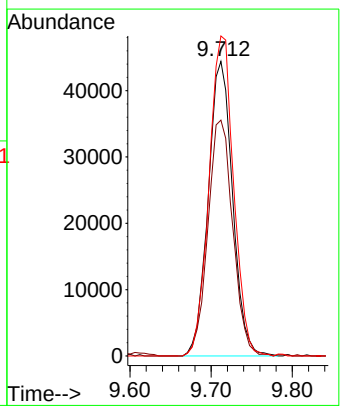


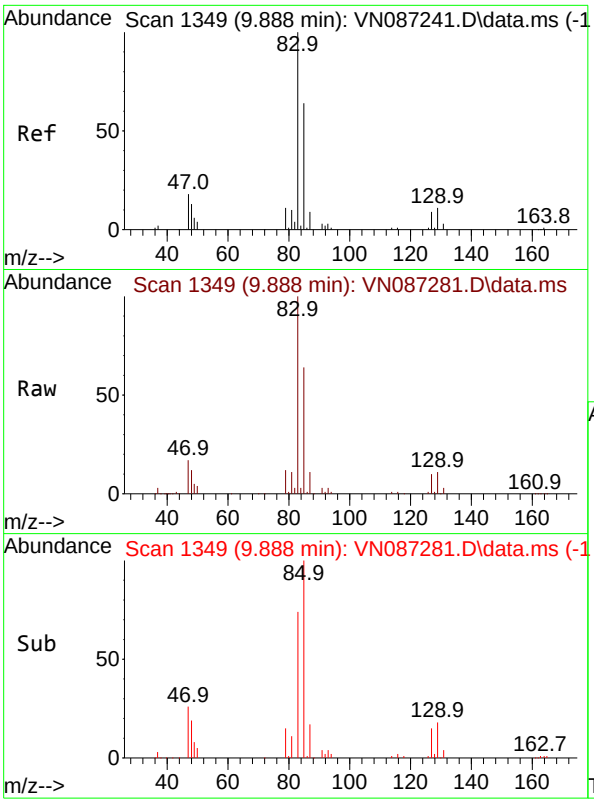


#46
Dibromomethane
Concen: 47.344 ug/l
RT: 9.712 min Scan# 1319
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Tgt Ion: 93 Resp: 92733

Ion	Ratio	Lower	Upper
93	100		
95	81.7	66.1	99.1
174	109.5	81.8	122.6



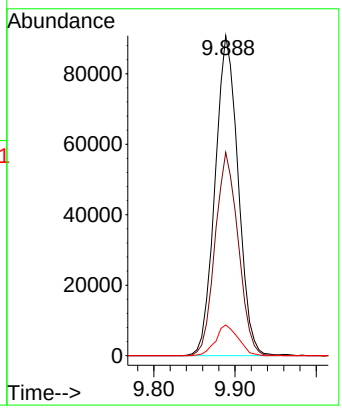


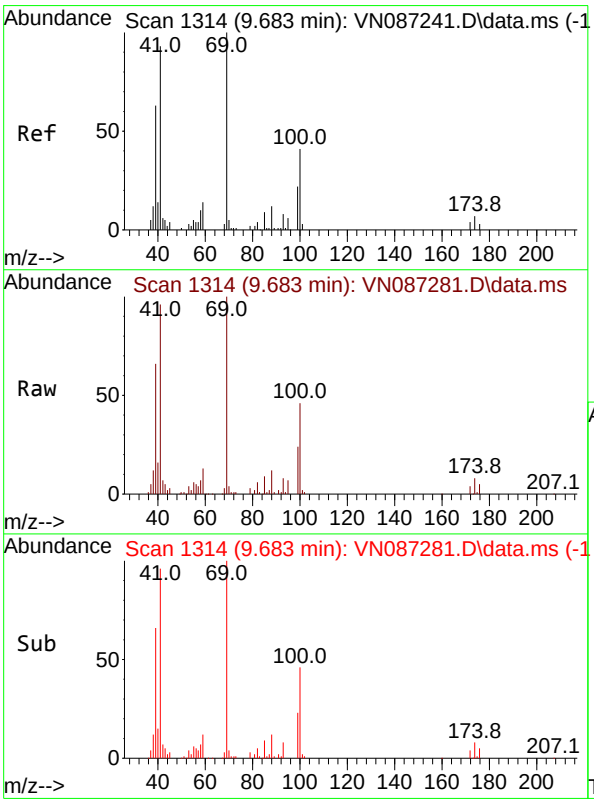
#47
Bromodichloromethane
Concen: 47.925 ug/l
RT: 9.888 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Instrument :
MSVOA_N
ClientSampleId :
BFB

Tgt Ion: 83 Resp: 179033

Ion	Ratio	Lower	Upper
83	100		
85	63.6	51.2	76.8
127	9.6	7.0	10.4

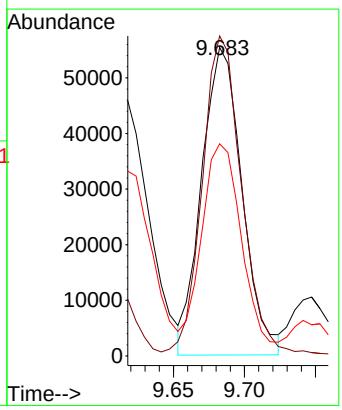


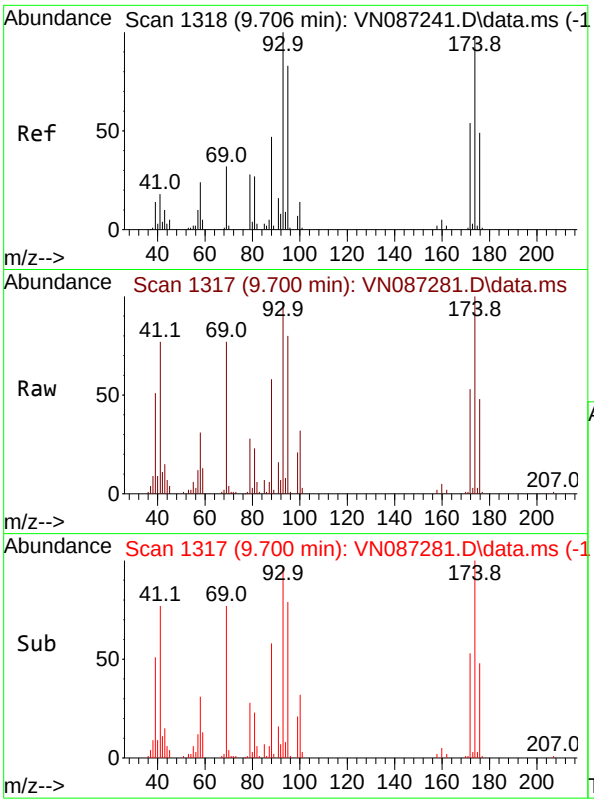


#48
Methyl methacrylate
Concen: 45.675 ug/l
RT: 9.683 min Scan# 1314
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Tgt Ion: 41 Resp: 109389

Ion	Ratio	Lower	Upper
41	100		
69	102.7	81.4	122.2
39	69.4	56.9	85.3



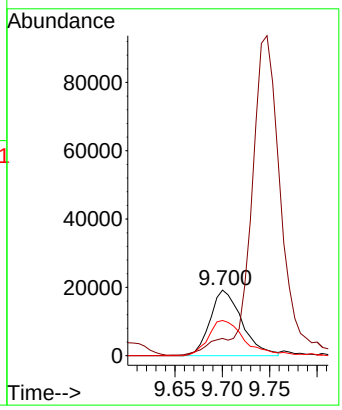


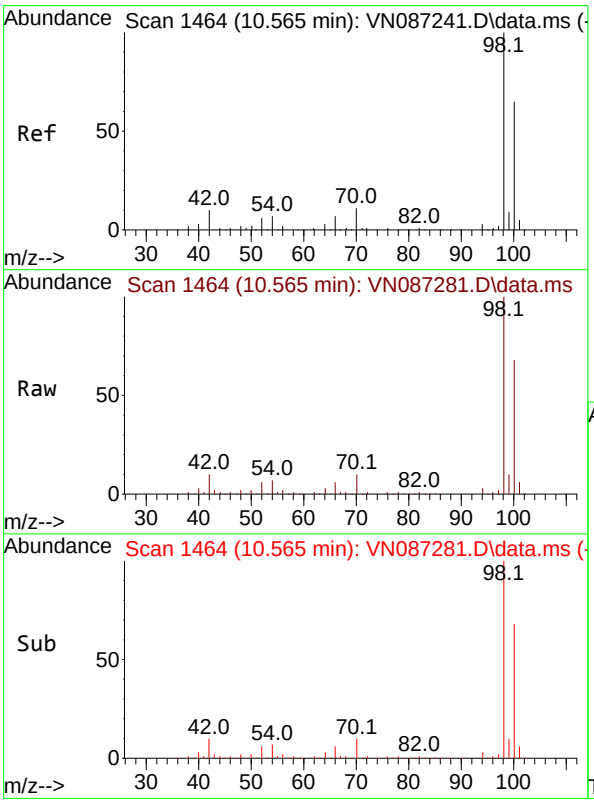
#49
1,4-Dioxane
Concen: 902.826 ug/l
RT: 9.700 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Instrument :
MSVOA_N
ClientSampleId :
BFB

Tgt Ion: 88 Resp: 44952

Ion	Ratio	Lower	Upper
88	100		
43	0.0	0.0	0.0
58	61.2	47.8	71.8

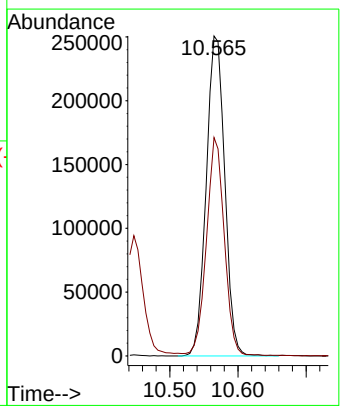


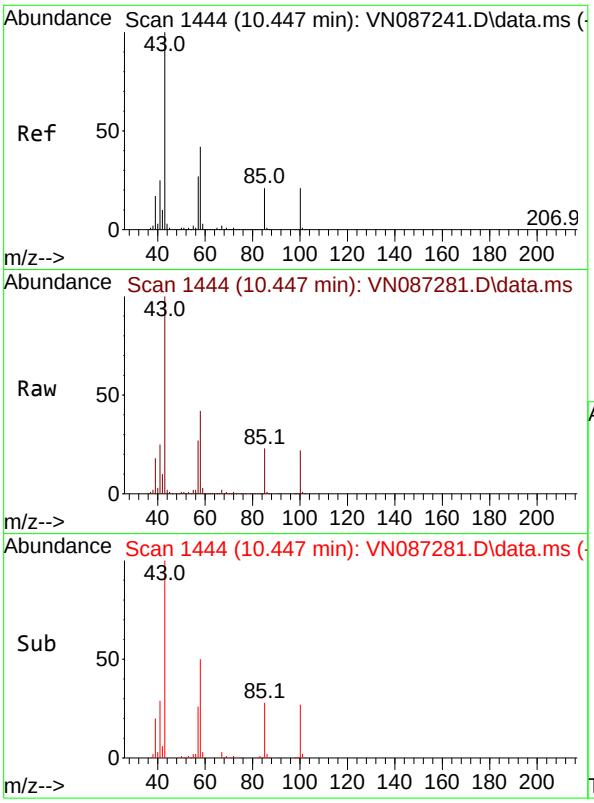


#50
Toluene-d8
Concen: 48.491 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Tgt Ion: 98 Resp: 473749

Ion	Ratio	Lower	Upper
98	100		
100	65.5	52.1	78.1



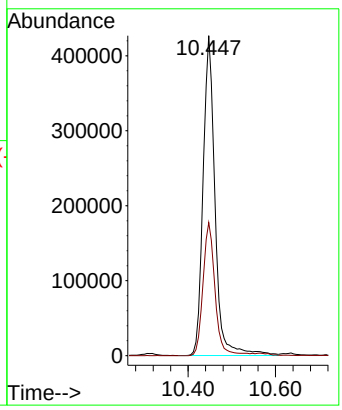


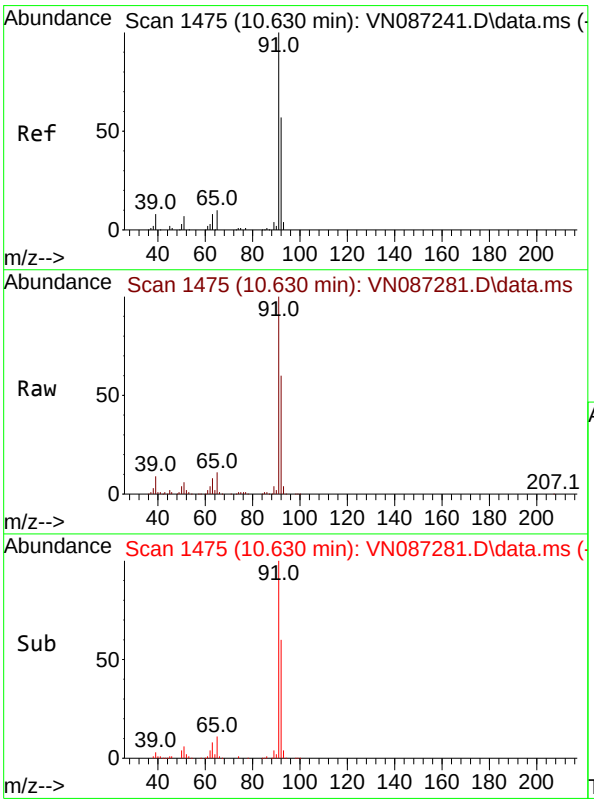
#51
4-Methyl-2-Pentanone
Concen: 234.287 ug/l
RT: 10.447 min Scan# 14
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Instrument :
MSVOA_N
ClientSampleId :
BFB

Tgt Ion: 43 Resp: 814566

Ion	Ratio	Lower	Upper
43	100		
58	41.8	34.2	51.2

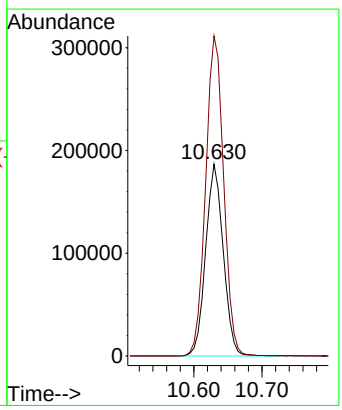


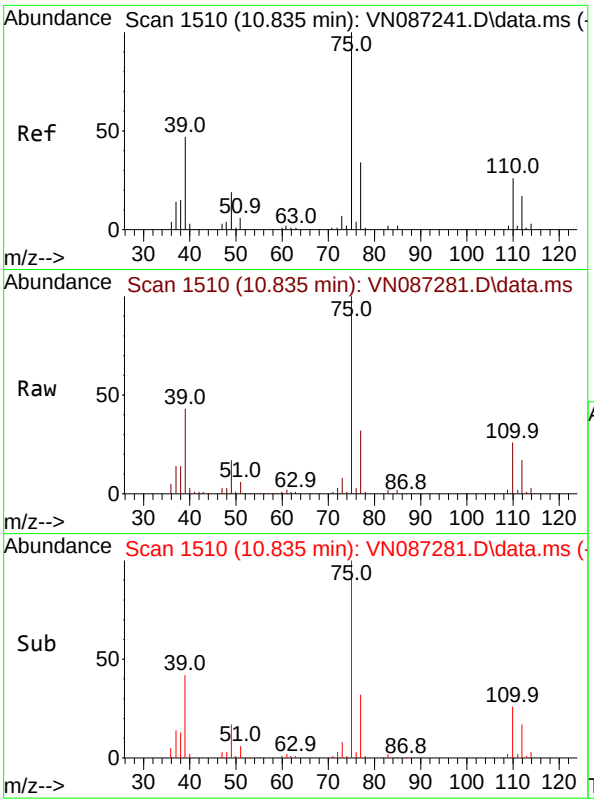


#52
Toluene
Concen: 48.371 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Tgt Ion: 92 Resp: 334997

Ion	Ratio	Lower	Upper
92	100		
91	171.1	137.8	206.6



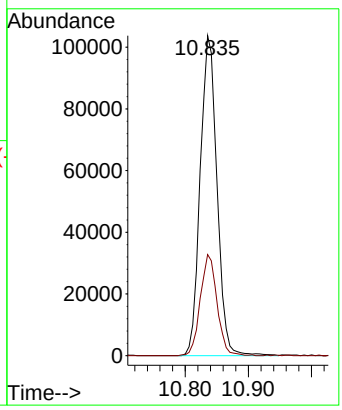


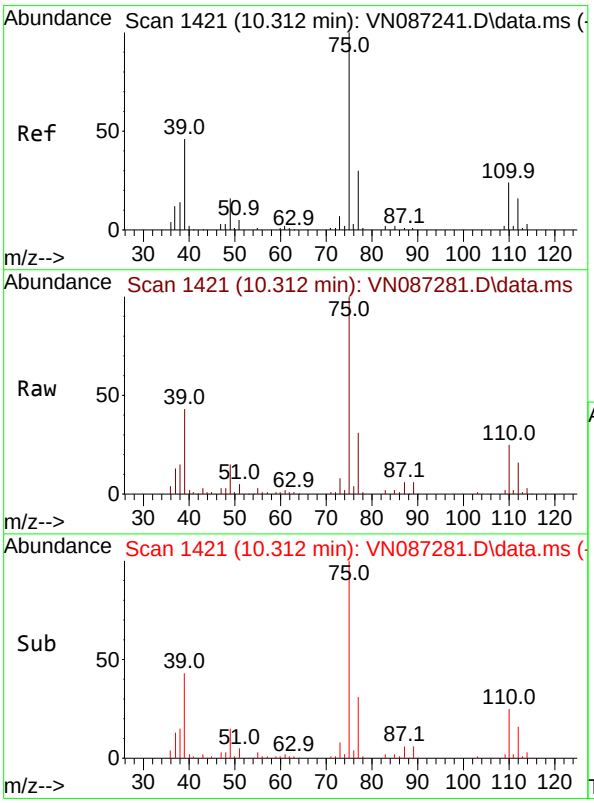
#53
t-1,3-Dichloropropene
Concen: 47.777 ug/l
RT: 10.835 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Instrument :
MSVOA_N
ClientSampleId :
BFB

Tgt Ion: 75 Resp: 191431

Ion	Ratio	Lower	Upper
75	100		
77	31.6	27.1	40.7

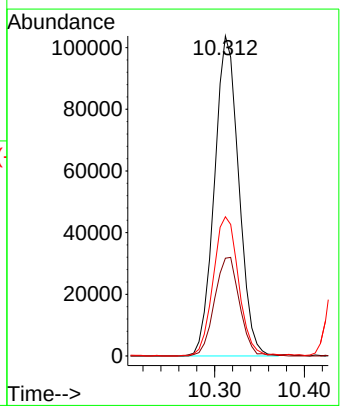


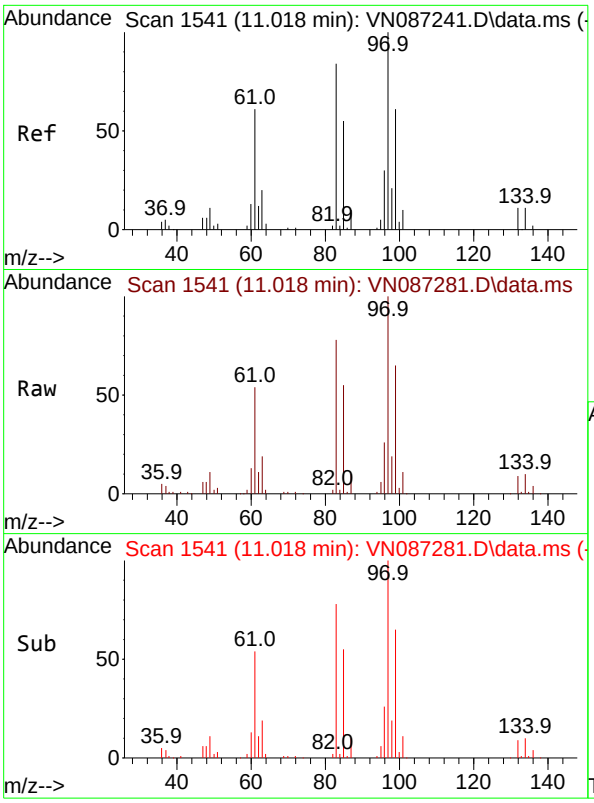


#54
cis-1,3-Dichloropropene
Concen: 47.850 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Tgt Ion: 75 Resp: 195339

Ion	Ratio	Lower	Upper
75	100		
77	30.6	24.1	36.1
39	43.5	36.7	55.1



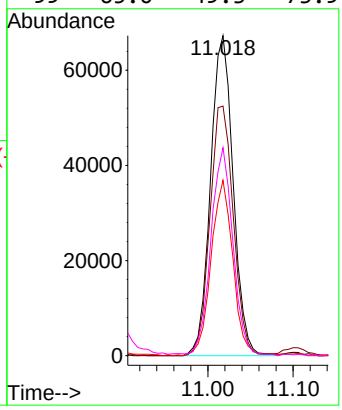


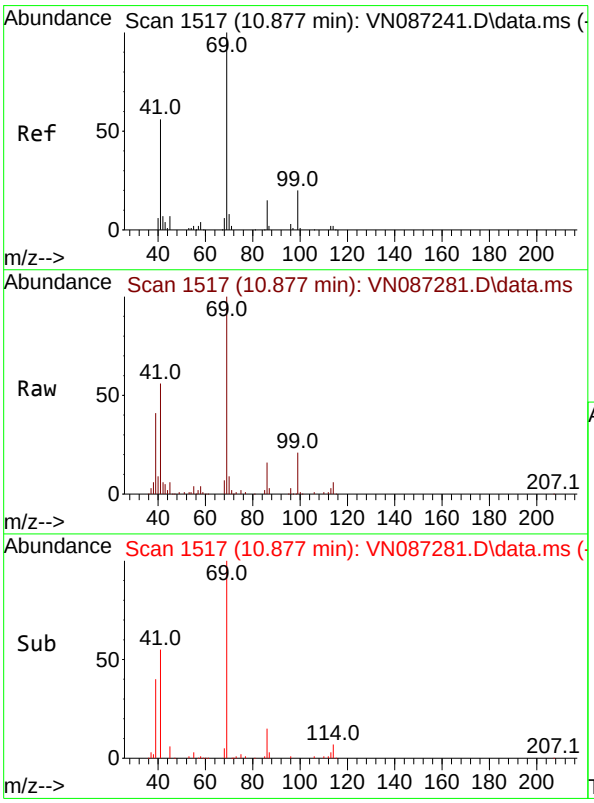
#55
1,1,2-Trichloroethane
Concen: 47.459 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Instrument :
MSVOA_N
ClientSampleId :
BFB

Tgt Ion: 97 Resp: 124162

Ion	Ratio	Lower	Upper
97	100		
83	78.0	67.4	101.2
85	54.5	43.6	65.4
99	65.0	49.3	73.9

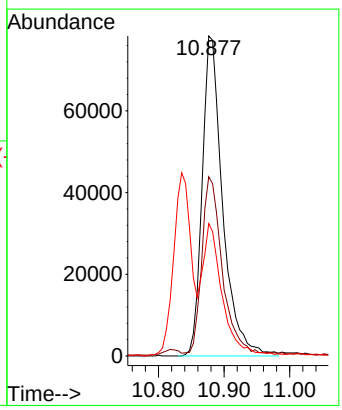


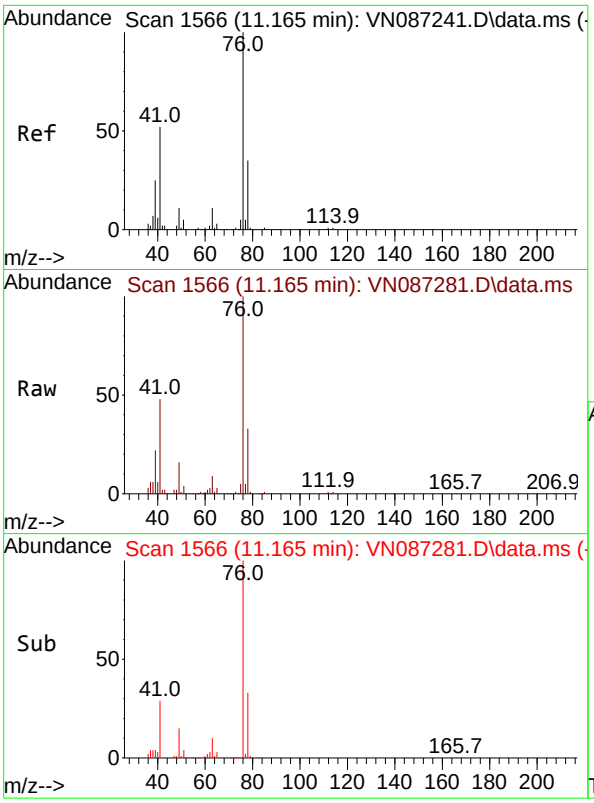


#56
Ethyl methacrylate
Concen: 44.581 ug/l
RT: 10.877 min Scan# 1517
Delta R.T. -0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Tgt Ion: 69 Resp: 170876

Ion	Ratio	Lower	Upper
69	100		
41	54.6	44.2	66.4
39	38.6	29.5	44.3



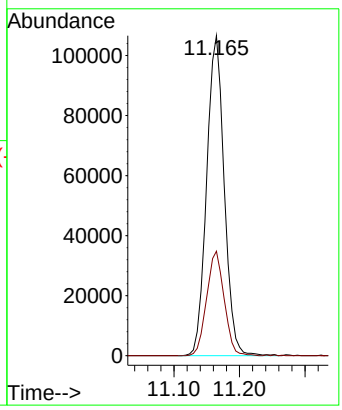


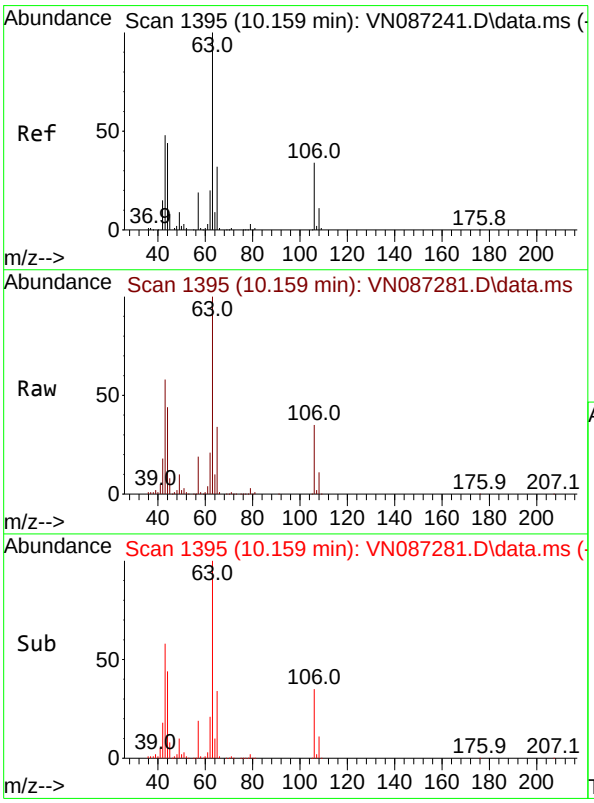
#57
1,3-Dichloropropane
Concen: 46.542 ug/l
RT: 11.165 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Instrument :
MSVOA_N
ClientSampleId :
BFB

Tgt Ion: 76 Resp: 198733

Ion	Ratio	Lower	Upper
76	100		
78	32.5	27.1	40.7

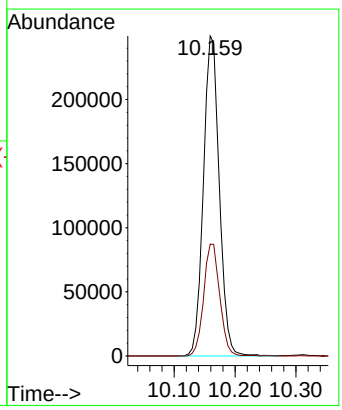


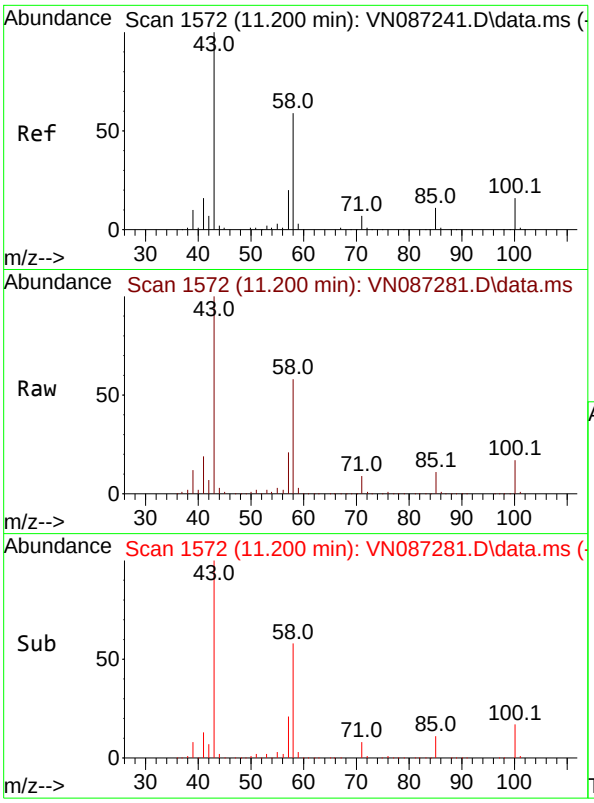


#58
2-Chloroethyl Vinyl ether
Concen: 223.271 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Tgt Ion: 63 Resp: 452295

Ion	Ratio	Lower	Upper
63	100		
106	35.4	26.9	40.3



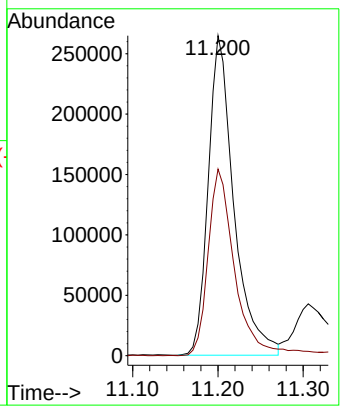


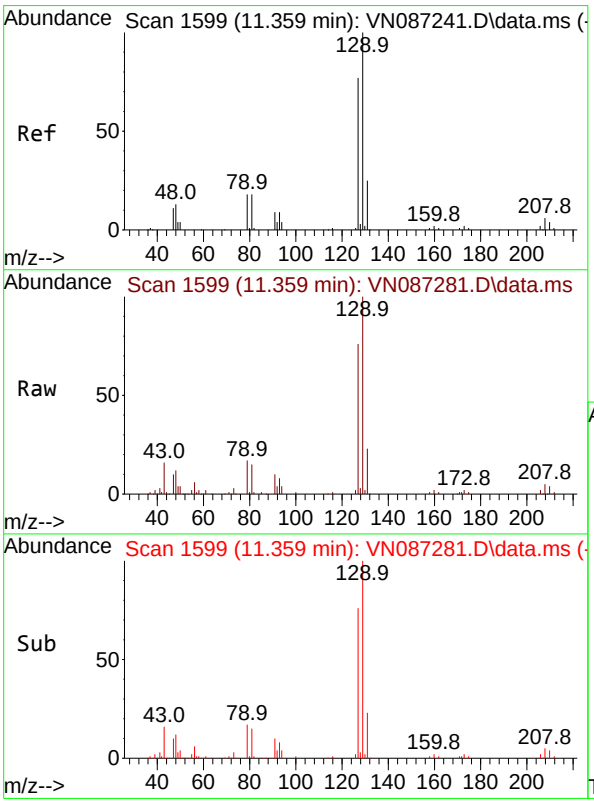
#59
2-Hexanone
Concen: 222.236 ug/l
RT: 11.200 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Instrument :
MSVOA_N
ClientSampleId :
BFB

Tgt Ion: 43 Resp: 553462

Ion	Ratio	Lower	Upper
43	100		
58	61.6	31.1	93.3

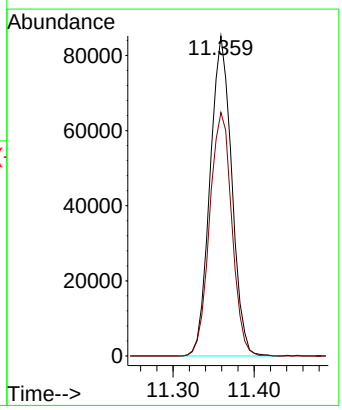


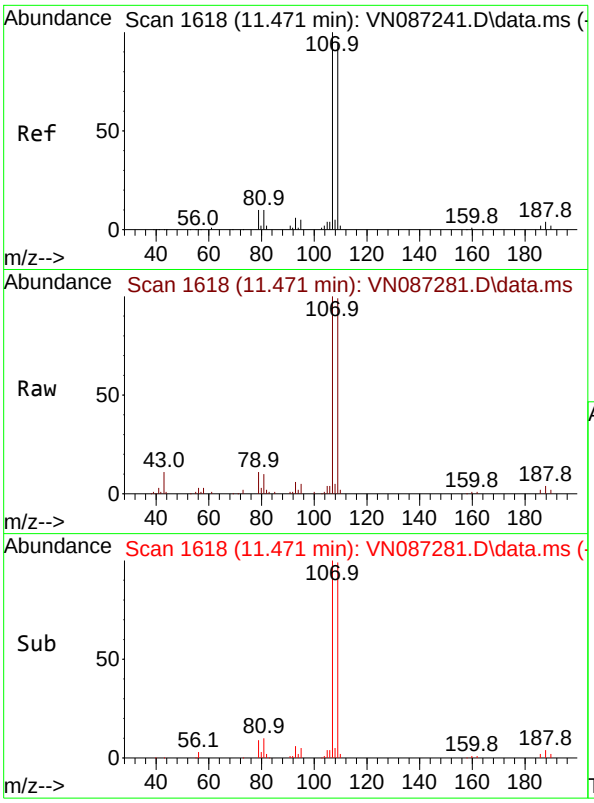


#60
Dibromochloromethane
Concen: 51.189 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Tgt Ion:129 Resp: 157867

Ion	Ratio	Lower	Upper
129	100		
127	78.0	39.3	117.9



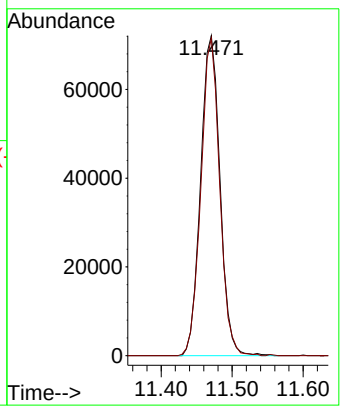


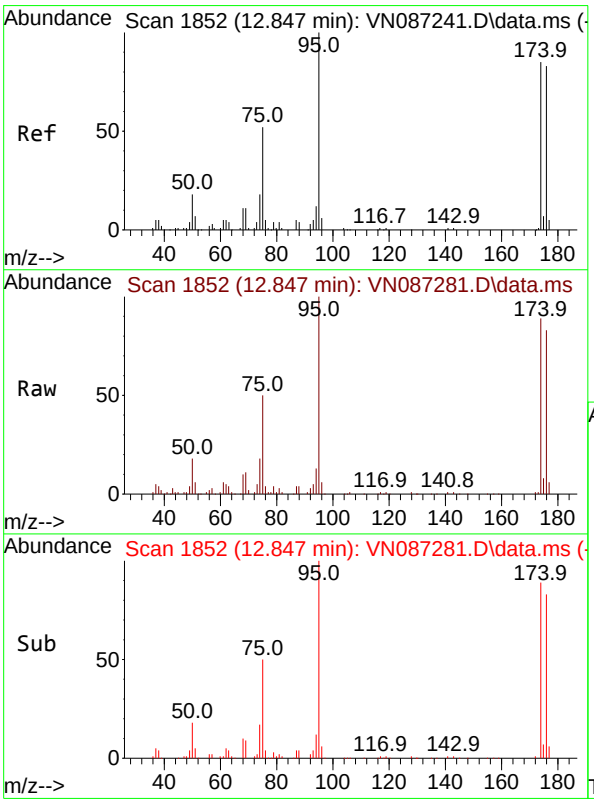
#61
1,2-Dibromoethane
Concen: 48.712 ug/l
RT: 11.471 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Instrument :
MSVOA_N
ClientSampleId :
BFB

Tgt Ion:107 Resp: 137085

Ion	Ratio	Lower	Upper
107	100		
109	96.0	76.0	114.0

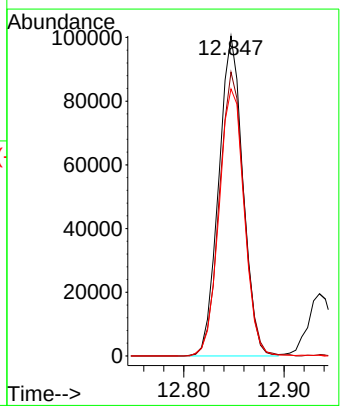


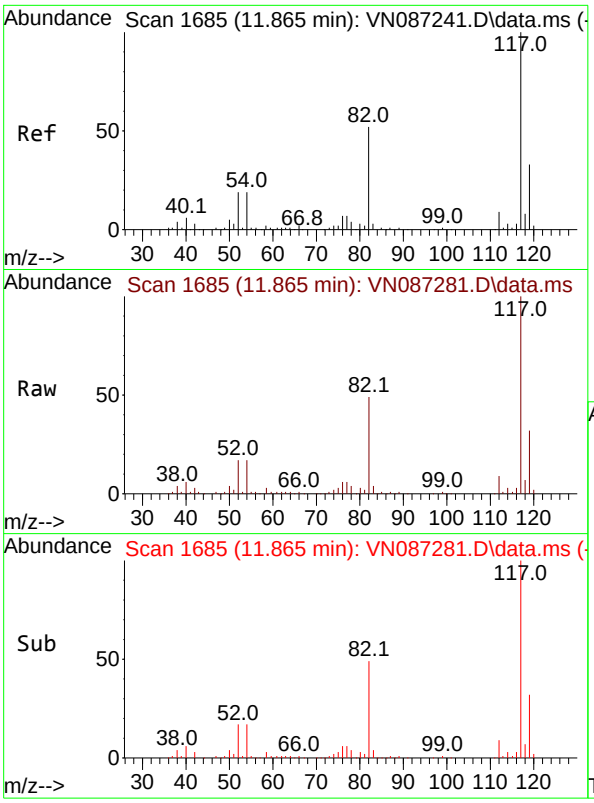


#62
4-Bromofluorobenzene
Concen: 48.521 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Tgt Ion: 95 Resp: 168668

Ion	Ratio	Lower	Upper
95	100		
174	90.2	0.0	169.6
176	86.5	0.0	161.6



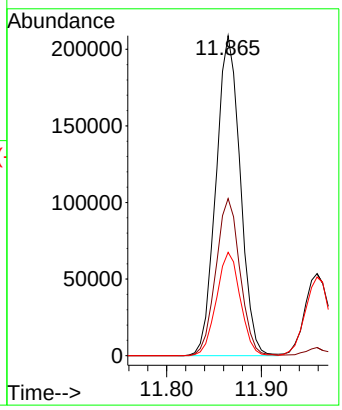


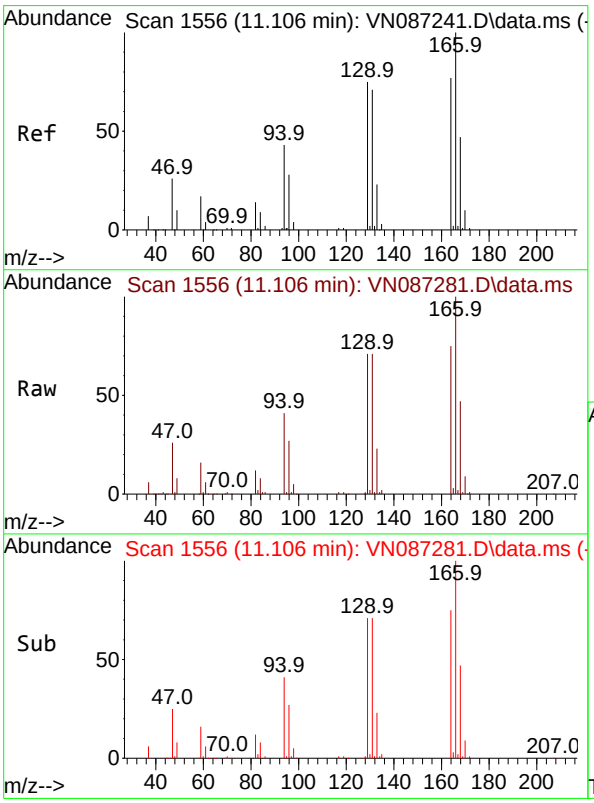
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Instrument :
MSVOA_N
ClientSampleId :
BFB

Tgt Ion:117 Resp: 371947

Ion	Ratio	Lower	Upper
117	100		
82	49.1	41.9	62.9
119	32.3	26.2	39.4

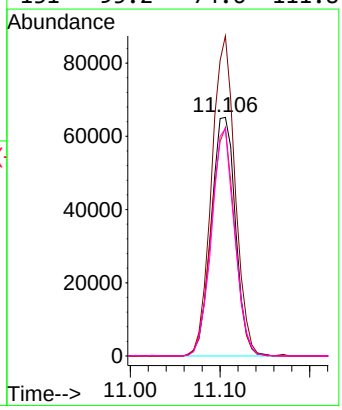


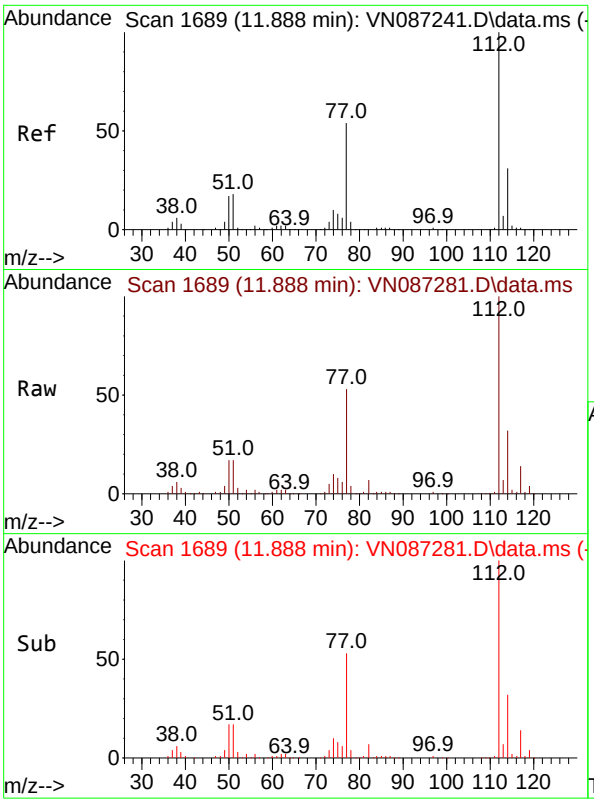


#64
Tetrachloroethene
Concen: 49.479 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Tgt Ion:164 Resp: 122707

Ion	Ratio	Lower	Upper
164	100		
166	134.1	104.3	156.5
129	95.8	78.5	117.7
131	95.2	74.6	111.8



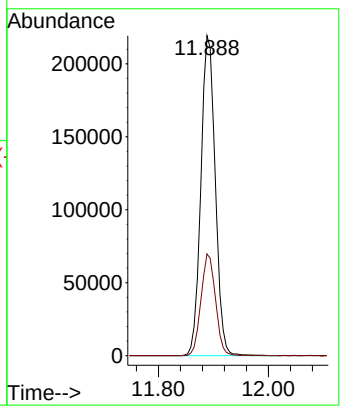


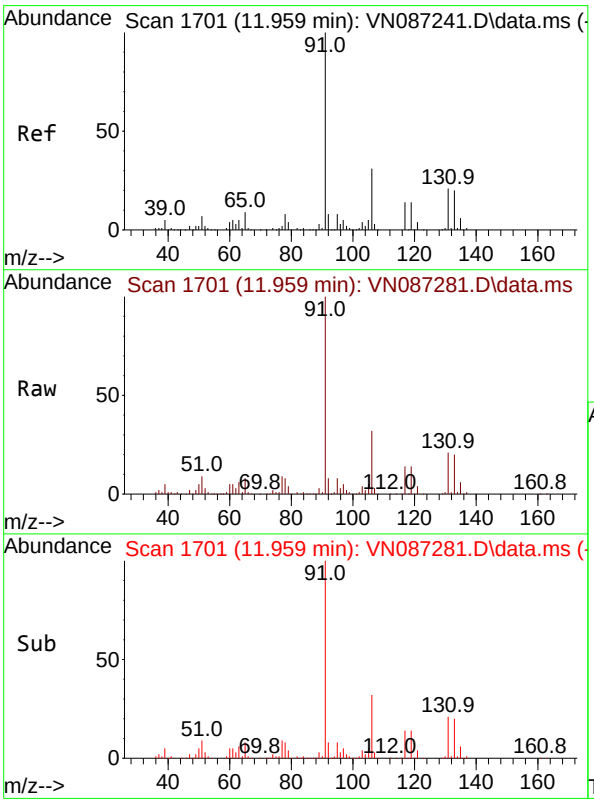
#65
Chlorobenzene
Concen: 47.768 ug/l
RT: 11.888 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Instrument :
MSVOA_N
ClientSampleId :
BFB

Tgt Ion:112 Resp: 398671

Ion	Ratio	Lower	Upper
112	100		
114	31.8	24.4	36.6

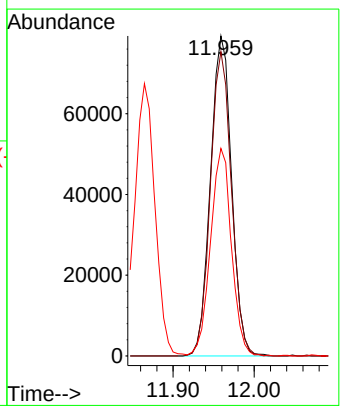


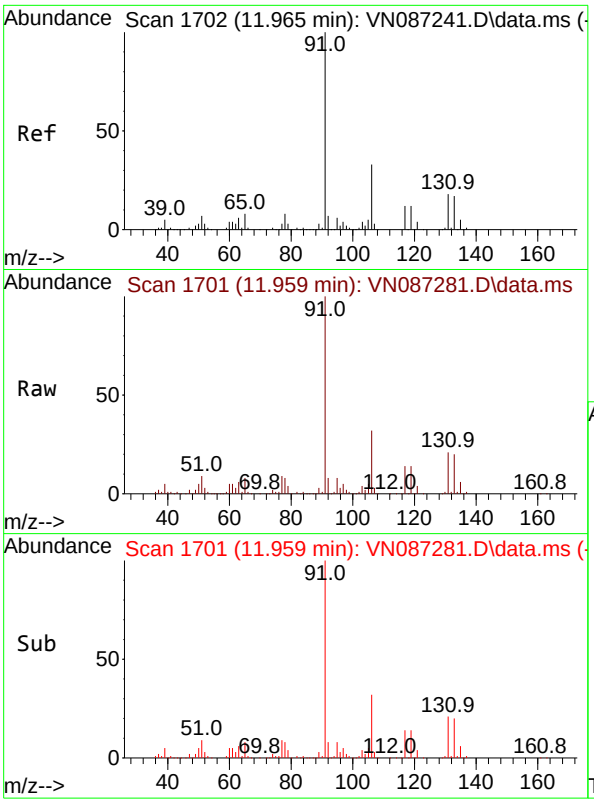


#66
1,1,1,2-Tetrachloroethane
Concen: 49.704 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Tgt Ion:131 Resp: 143237

Ion	Ratio	Lower	Upper
131	100		
133	94.8	47.2	141.6
119	64.2	32.4	97.2



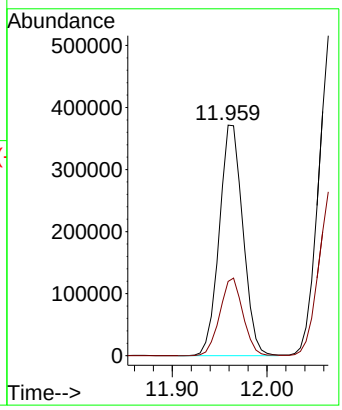


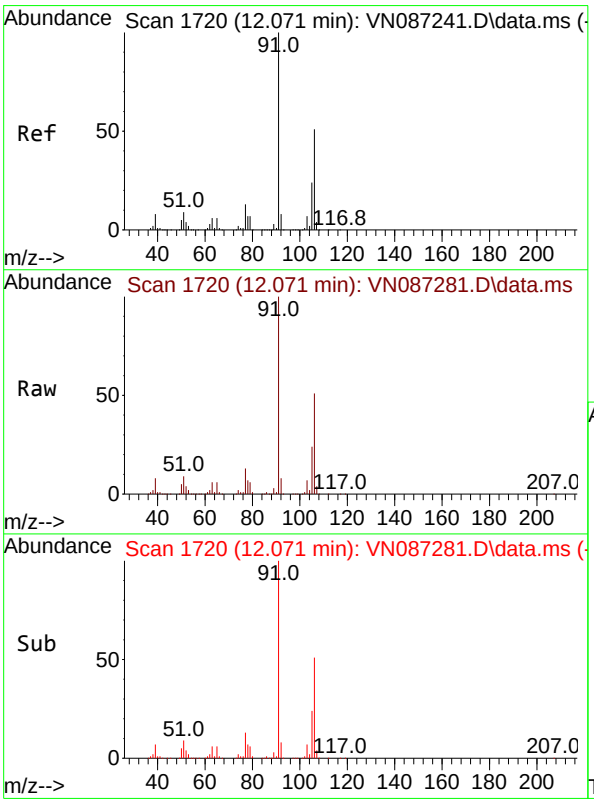
#67
Ethyl Benzene
Concen: 47.785 ug/l
RT: 11.959 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Instrument :
MSVOA_N
ClientSampleId :
BFB

Tgt Ion: 91 Resp: 645331

Ion	Ratio	Lower	Upper
91	100		
106	32.2	26.2	39.4

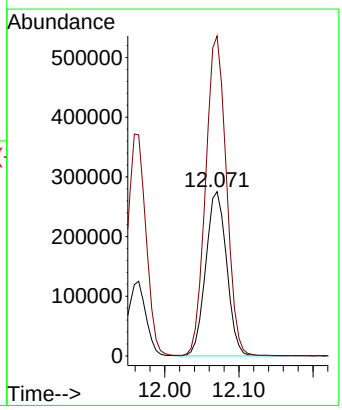


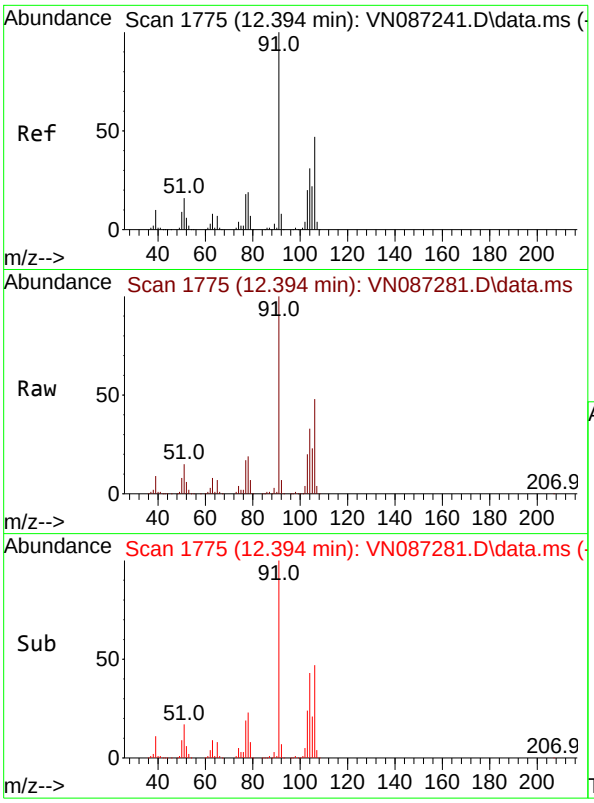


#68
m/p-Xylenes
Concen: 99.875 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Tgt Ion:106 Resp: 538895

Ion	Ratio	Lower	Upper
106	100		
91	193.2	158.2	237.2



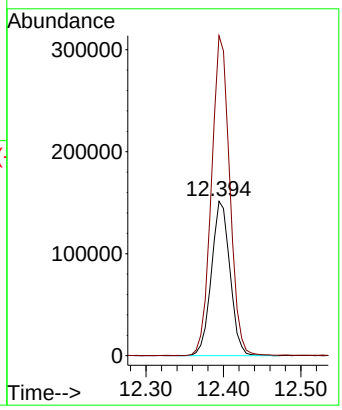


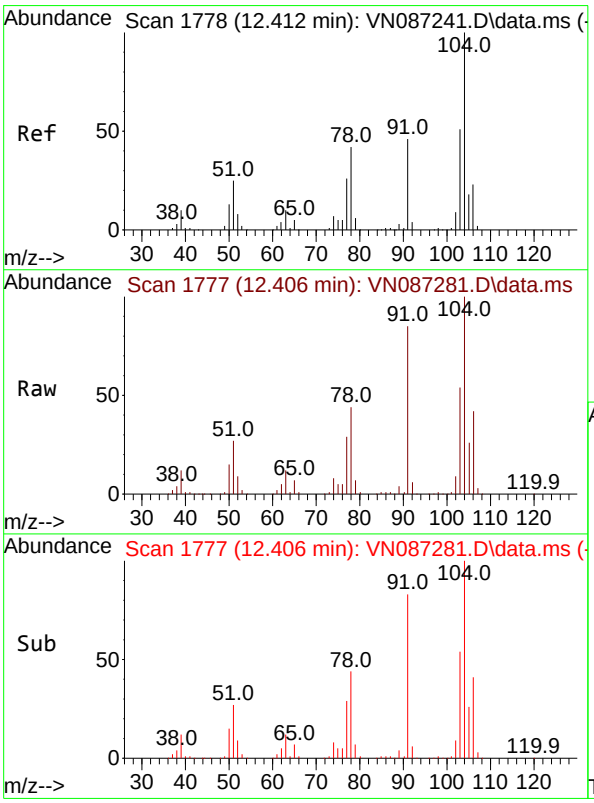
#69
o-Xylene
Concen: 49.913 ug/l
RT: 12.394 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Instrument :
MSVOA_N
ClientSampleId :
BFB

Tgt Ion:106 Resp: 251926

Ion	Ratio	Lower	Upper
106	100		
91	204.0	105.4	316.1

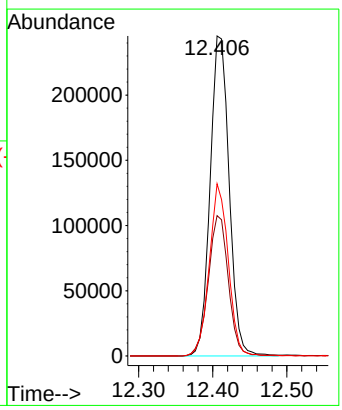


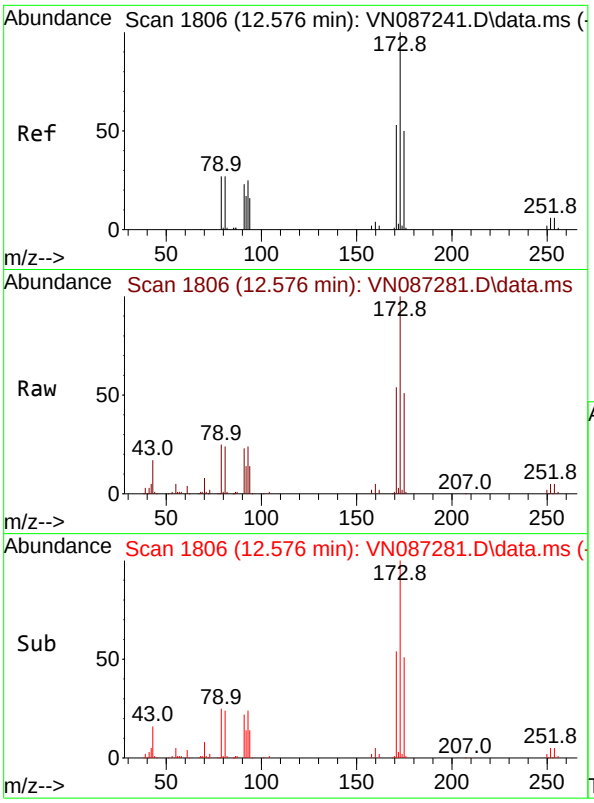


#70
Styrene
Concen: 51.053 ug/l
RT: 12.406 min Scan# 1777
Delta R.T. -0.006 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Tgt Ion:104 Resp: 437928

Ion	Ratio	Lower	Upper
104	100		
78	46.3	37.6	56.4
103	53.7	44.0	66.0



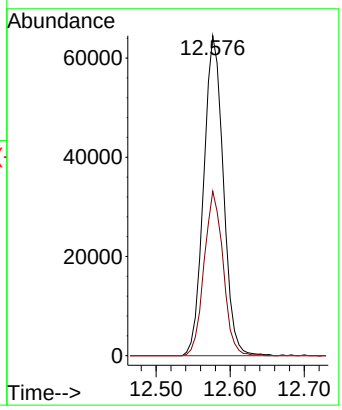


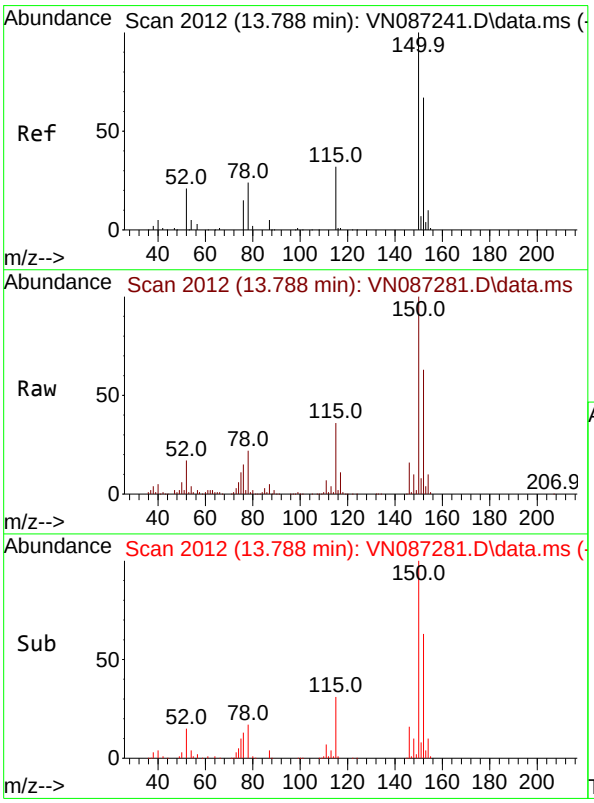
#71
Bromoform
Concen: 53.431 ug/l
RT: 12.576 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Instrument :
MSVOA_N
ClientSampleId :
BFB

Tgt Ion:173 Resp: 118793

Ion	Ratio	Lower	Upper
173	100		
175	49.8	24.6	73.6
254	0.0	0.0	0.0

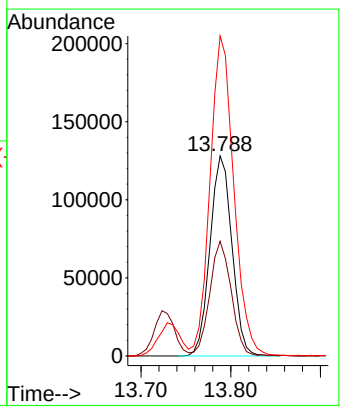


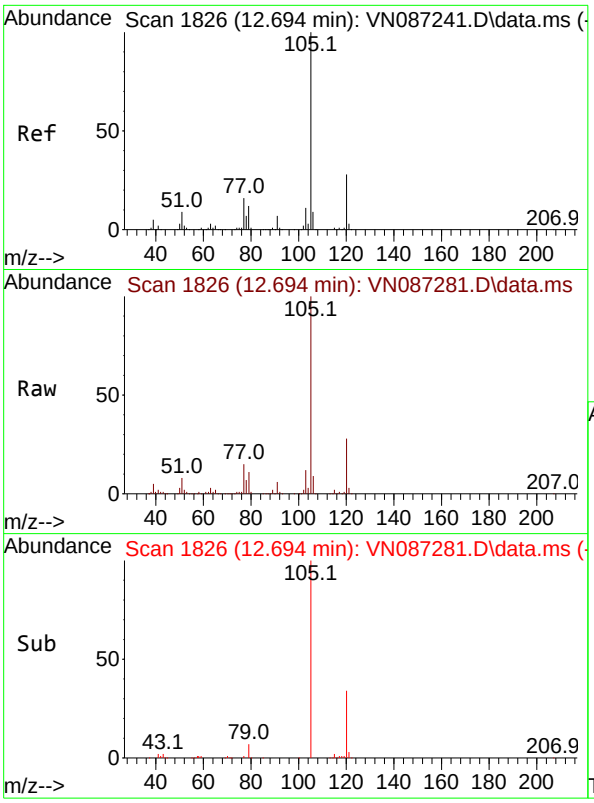


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Tgt Ion:152 Resp: 217810

Ion	Ratio	Lower	Upper
152	100		
115	55.9	28.3	84.9
150	173.0	0.0	344.6



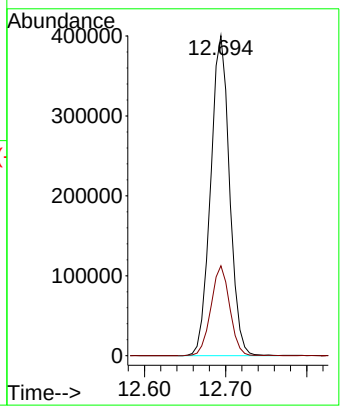


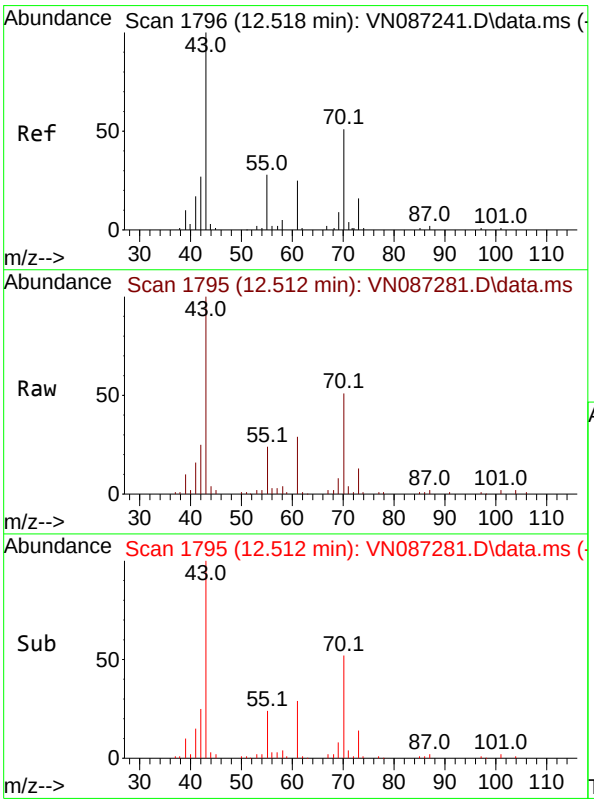
#73
Isopropylbenzene
Concen: 46.160 ug/l
RT: 12.694 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Instrument :
MSVOA_N
ClientSampleId :
BFB

Tgt Ion:105 Resp: 647819

Ion	Ratio	Lower	Upper
105	100		
120	27.9	13.9	41.6

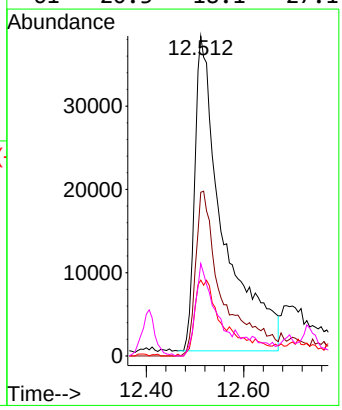


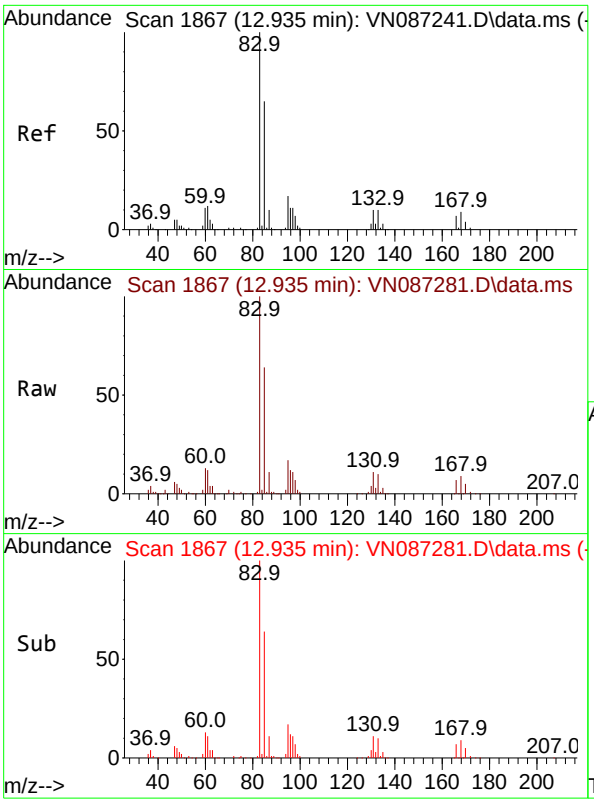


#74
N-amyl acetate
Concen: 33.203 ug/l
RT: 12.512 min Scan# 1795
Delta R.T. -0.006 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Tgt Ion: 43 Resp: 153237

Ion	Ratio	Lower	Upper
43	100		
70	50.6	29.2	43.8#
55	23.4	17.0	25.4
61	20.3	18.1	27.1



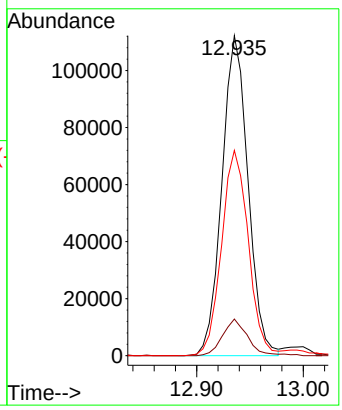


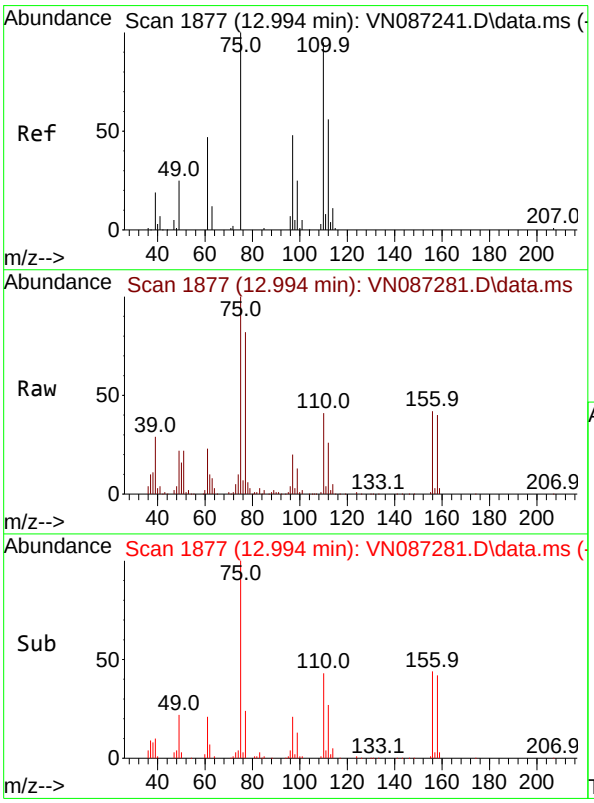
#75
1,1,2,2-Tetrachloroethane
Concen: 41.324 ug/l
RT: 12.935 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Instrument :
MSVOA_N
ClientSampleId :
BFB

Tgt Ion: 83 Resp: 190764

Ion	Ratio	Lower	Upper
83	100		
131	11.1	5.3	15.9
85	65.8	32.2	96.6

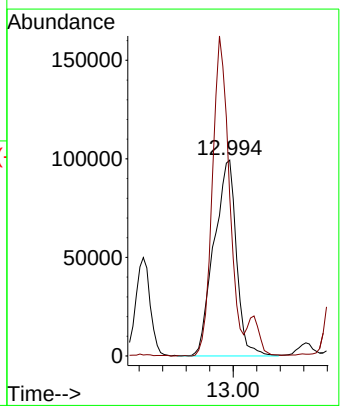


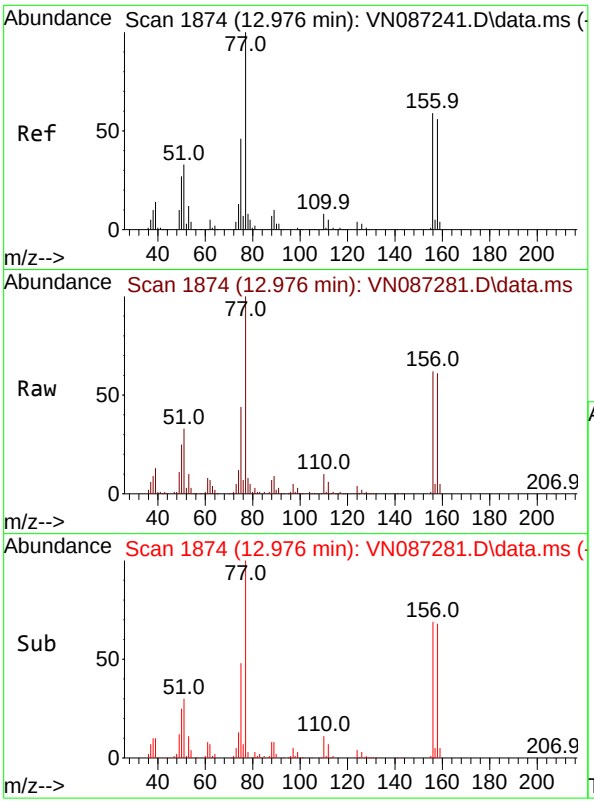


#76
1,2,3-Trichloropropane
Concen: 63.642 ug/l
RT: 12.994 min Scan# 1877
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Tgt Ion: 75 Resp: 263664

Ion	Ratio	Lower	Upper
75	100		
77	122.5	82.0	245.8



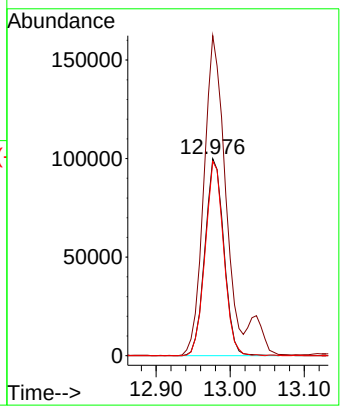


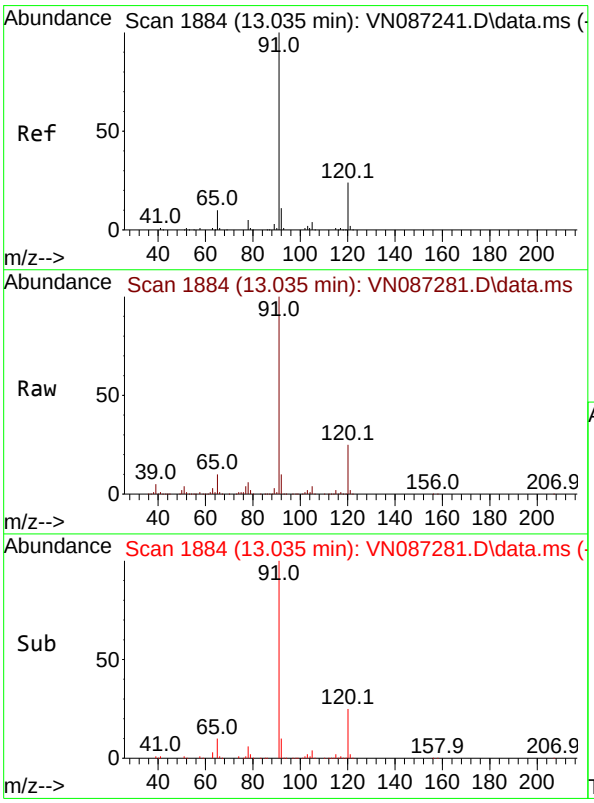
#77
Bromobenzene
Concen: 48.218 ug/l
RT: 12.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Instrument :
MSVOA_N
ClientSampleId :
BFB

Tgt Ion:156 Resp: 176649

Ion	Ratio	Lower	Upper
156	100		
77	182.9	98.0	294.1
158	97.2	47.7	143.1

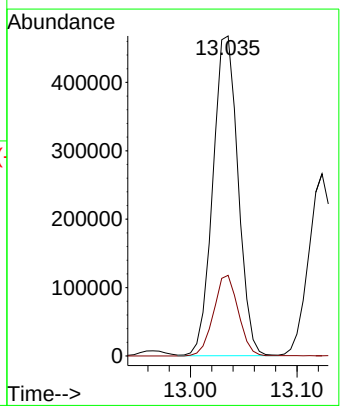


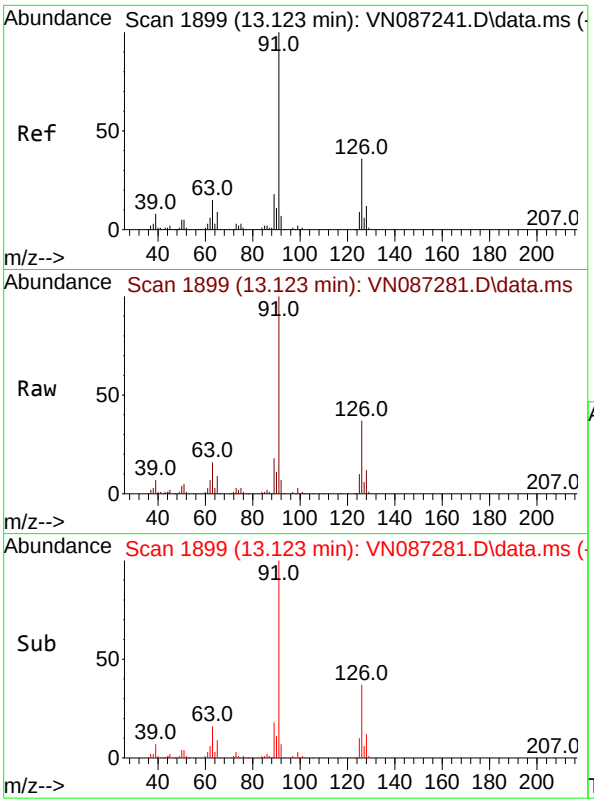


#78
n-propylbenzene
Concen: 45.325 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Tgt Ion: 91 Resp: 768377

Ion	Ratio	Lower	Upper
91	100		
120	24.7	12.0	36.0



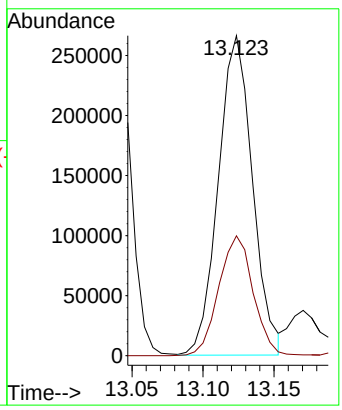


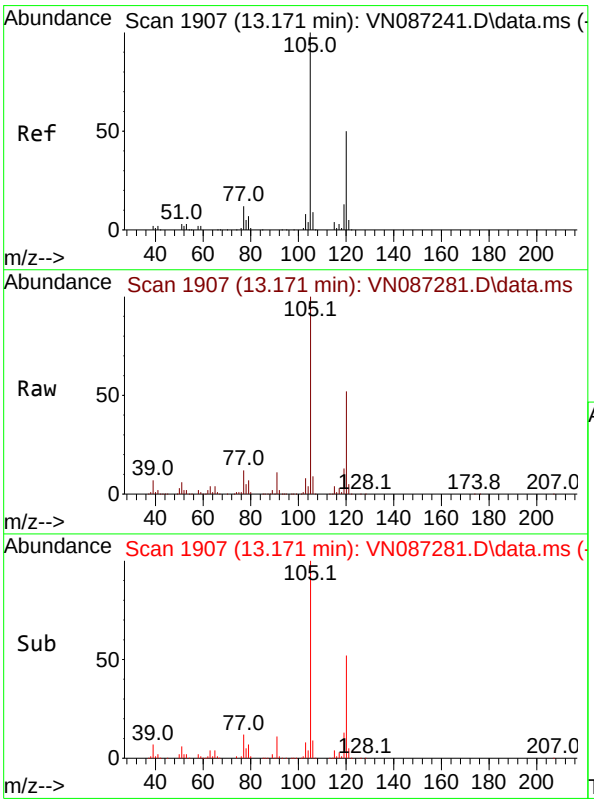
#79
2-Chlorotoluene
Concen: 44.146 ug/l
RT: 13.123 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Instrument :
MSVOA_N
ClientSampleId :
BFB

Tgt Ion: 91 Resp: 445398

Ion	Ratio	Lower	Upper
91	100		
126	37.8	17.8	53.3

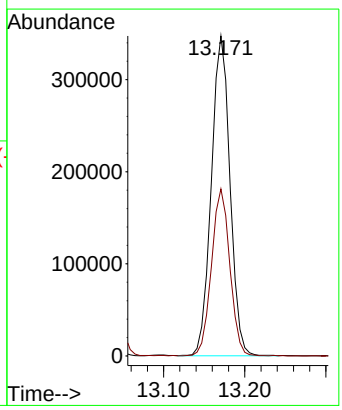


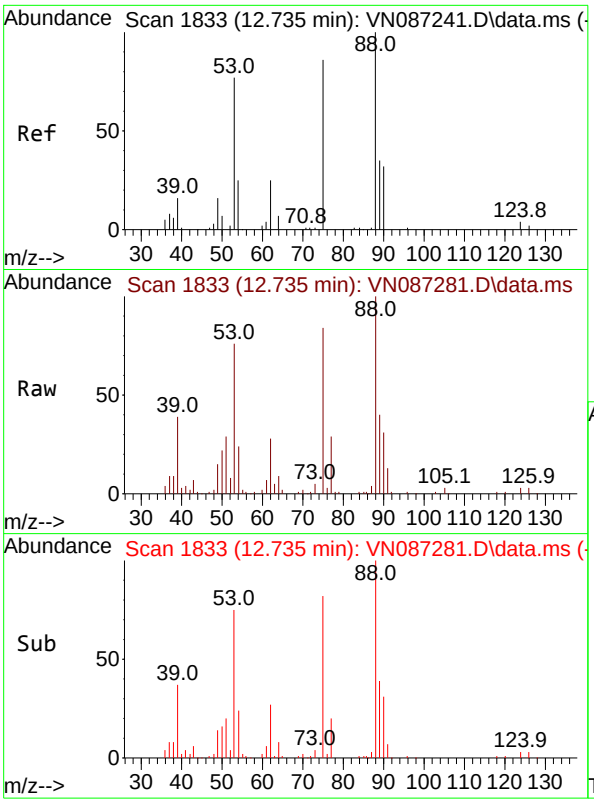


#80
1,3,5-Trimethylbenzene
Concen: 47.256 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Tgt Ion:105 Resp: 554356

Ion	Ratio	Lower	Upper
105	100		
120	51.1	25.3	75.8



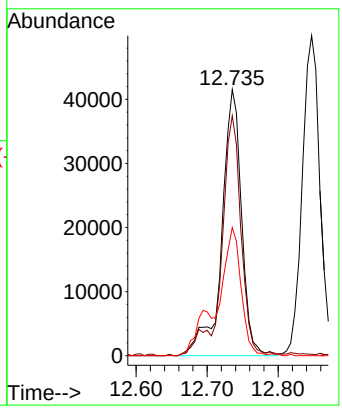


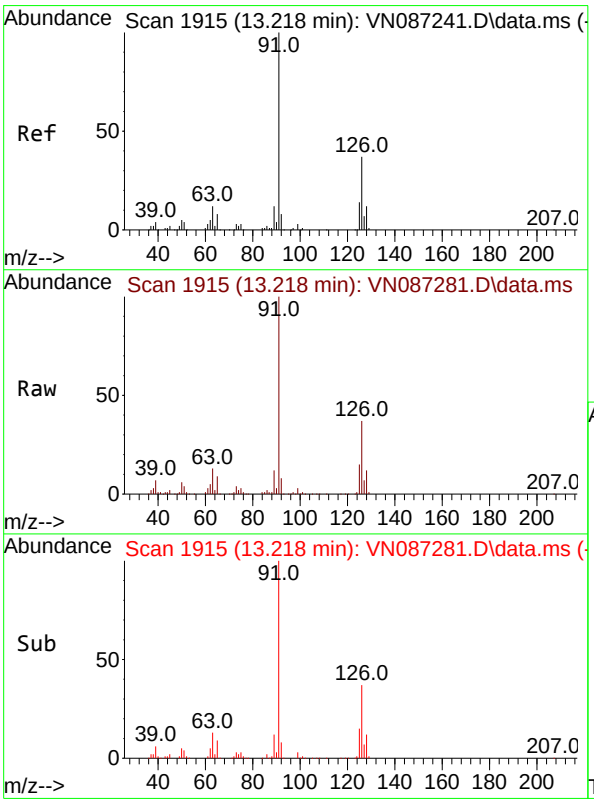
#81
trans-1,4-Dichloro-2-butene
Concen: 45.821 ug/l
RT: 12.735 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Instrument :
MSVOA_N
ClientSampleId :
BFB

Tgt Ion: 75 Resp: 80817

Ion	Ratio	Lower	Upper
75	100		
53	88.3	70.6	105.8
89	45.2	36.1	54.1

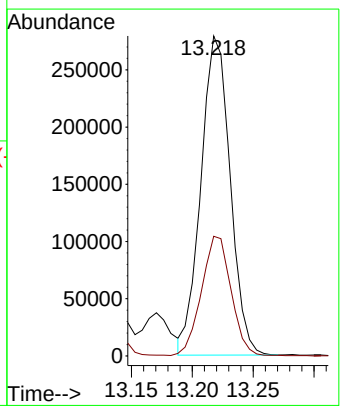


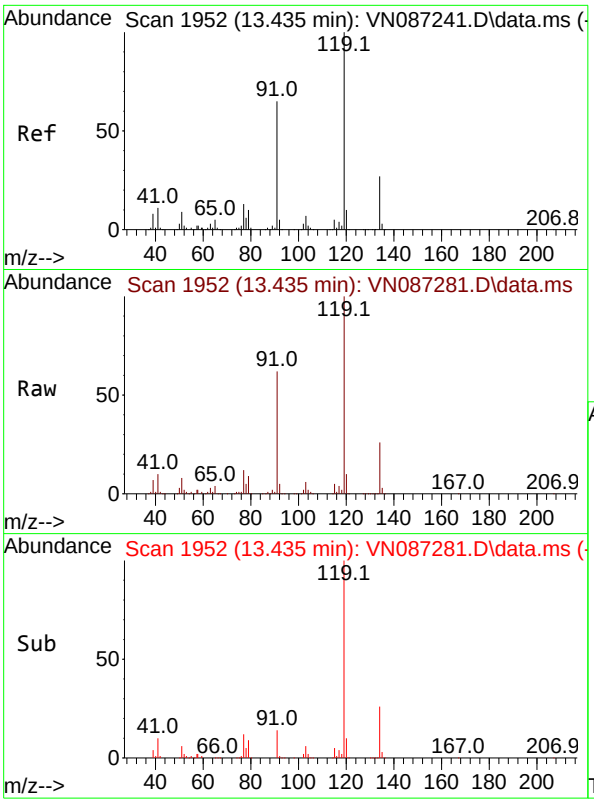


#82
4-Chlorotoluene
Concen: 44.250 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. -0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Tgt Ion: 91 Resp: 467338

Ion	Ratio	Lower	Upper
91	100		
126	38.2	18.2	54.6



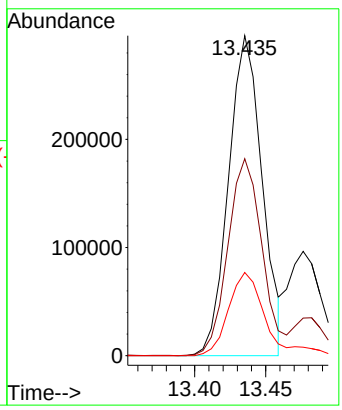


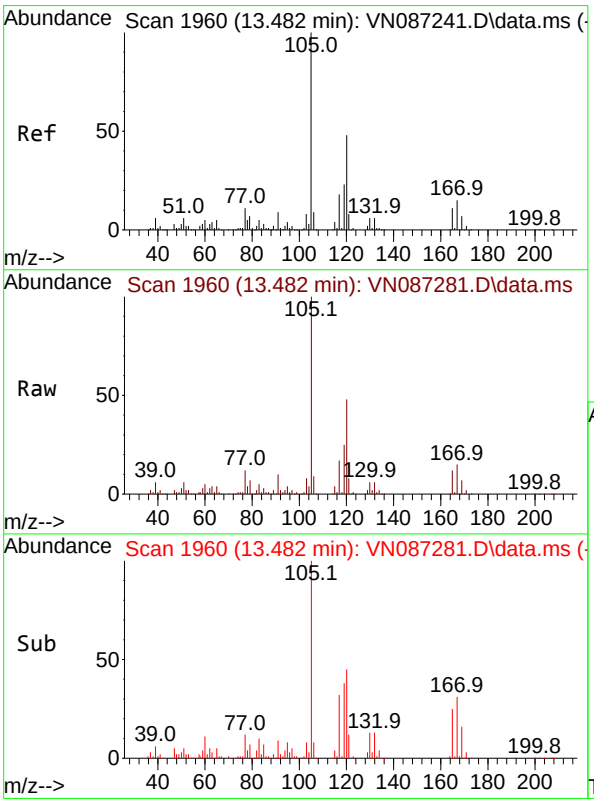
#83
tert-Butylbenzene
Concen: 47.393 ug/l
RT: 13.435 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Instrument :
MSVOA_N
ClientSampleId :
BFB

Tgt Ion:119 Resp: 487092

Ion	Ratio	Lower	Upper
119	100		
91	63.0	32.5	97.4
134	28.6	14.2	42.8

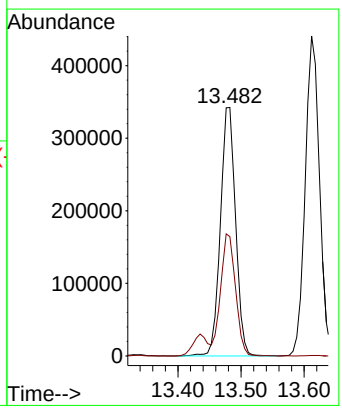


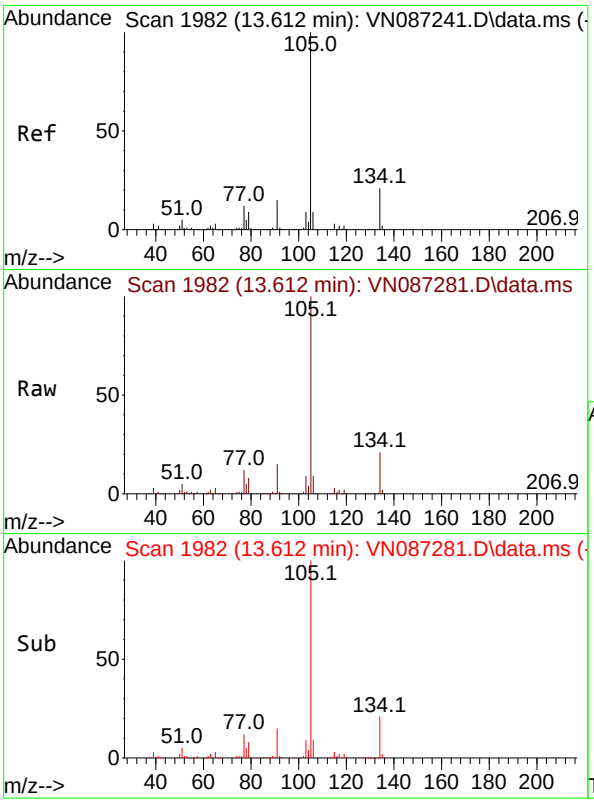


#84
1,2,4-Trimethylbenzene
Concen: 48.624 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Tgt Ion:105 Resp: 571386

Ion	Ratio	Lower	Upper
105	100		
120	47.9	23.3	69.9



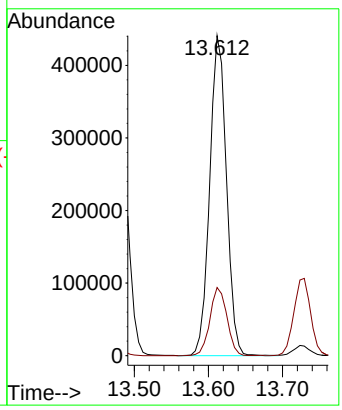


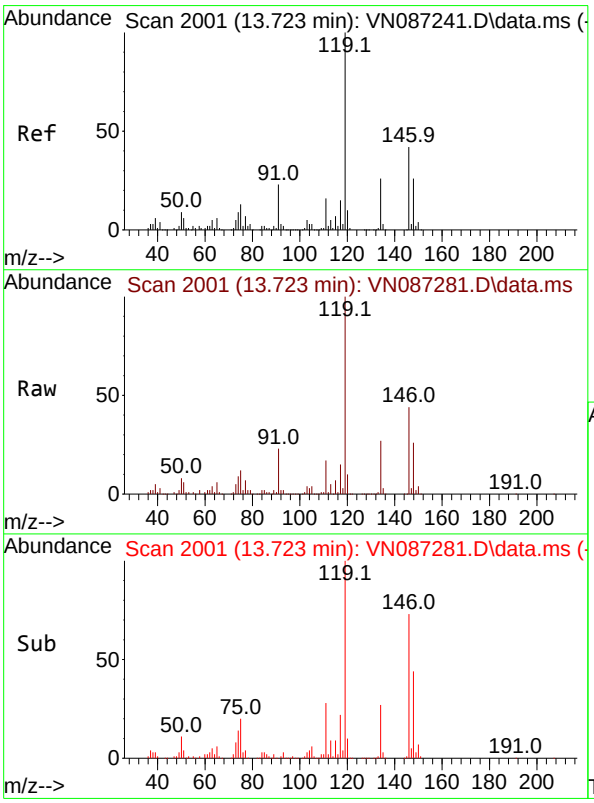
#85
sec-Butylbenzene
Concen: 47.524 ug/l
RT: 13.612 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Instrument :
MSVOA_N
ClientSampleId :
BFB

Tgt Ion:105 Resp: 692340

Ion	Ratio	Lower	Upper
105	100		
134	21.6	10.4	31.4

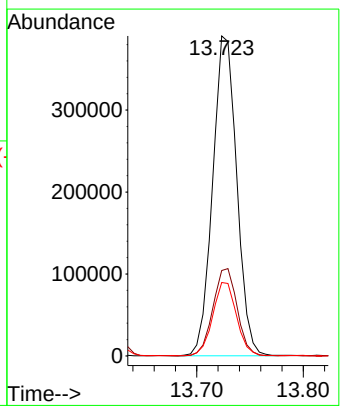


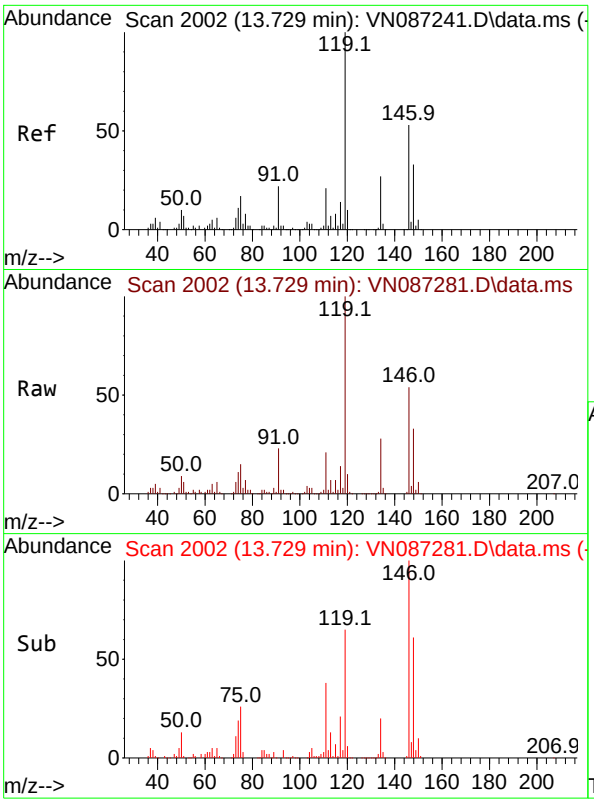


#86
p-Isopropyltoluene
Concen: 48.930 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Tgt Ion:119 Resp: 612719

Ion	Ratio	Lower	Upper
119	100		
134	27.5	13.3	39.8
91	22.6	11.3	33.9



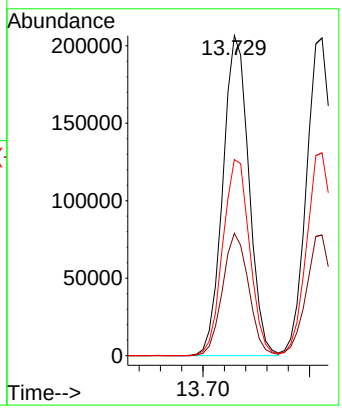


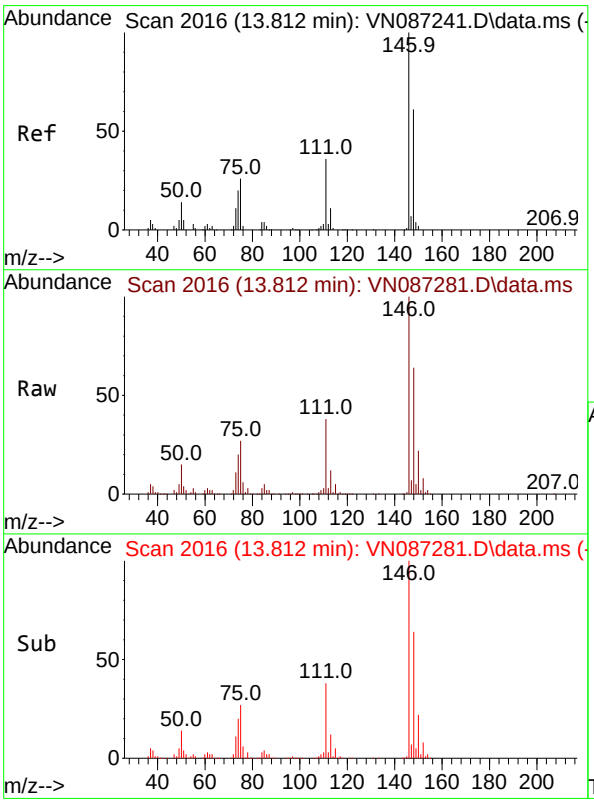
#87
1,3-Dichlorobenzene
Concen: 47.947 ug/l
RT: 13.729 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Instrument :
MSVOA_N
ClientSampleId :
BFB

Tgt Ion:146 Resp: 349820

Ion	Ratio	Lower	Upper
146	100		
111	38.4	19.8	59.4
148	63.3	32.0	96.0

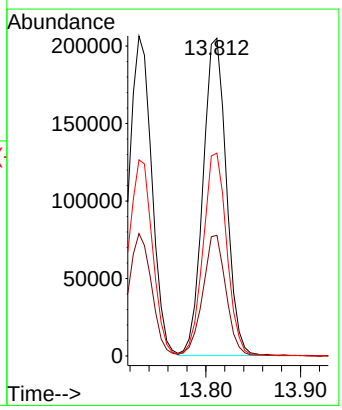


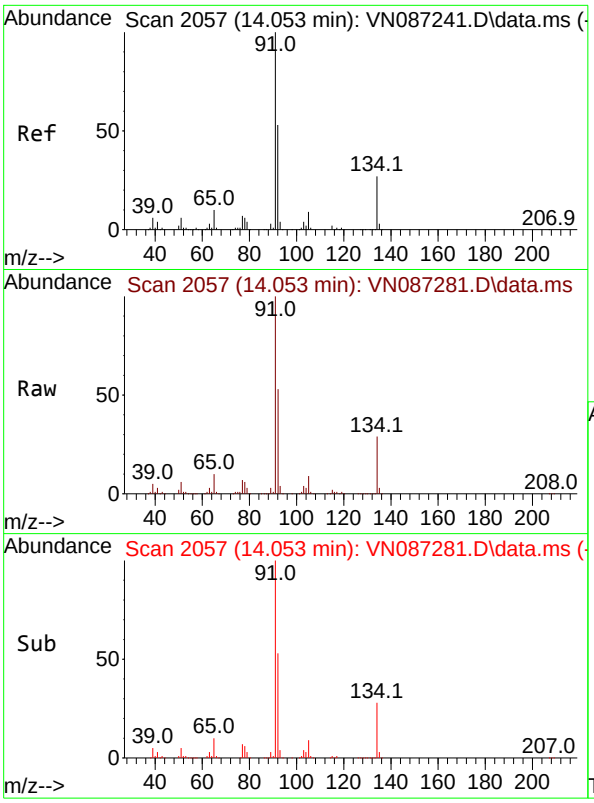


#88
1,4-Dichlorobenzene
Concen: 46.037 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Tgt Ion:146 Resp: 350705

Ion	Ratio	Lower	Upper
146	100		
111	37.4	19.1	57.5
148	64.6	31.8	95.3



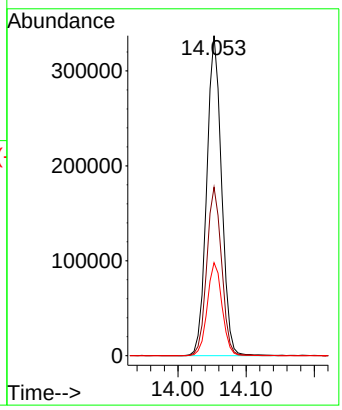


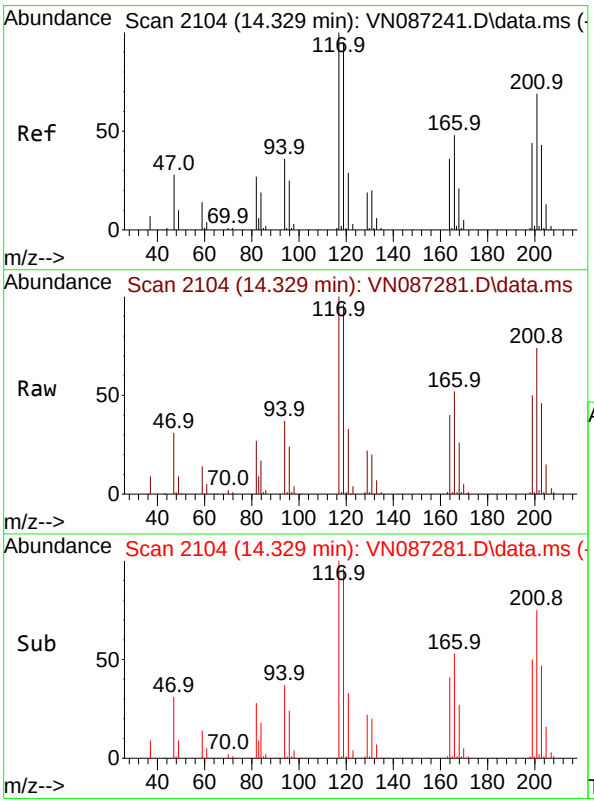
#89
n-Butylbenzene
Concen: 46.244 ug/l
RT: 14.053 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Instrument :
MSVOA_N
ClientSampleId :
BFB

Tgt Ion: 91 Resp: 509856

Ion	Ratio	Lower	Upper
91	100		
92	52.7	26.7	80.0
134	29.0	13.7	41.1

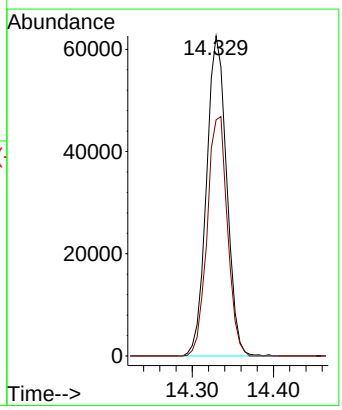


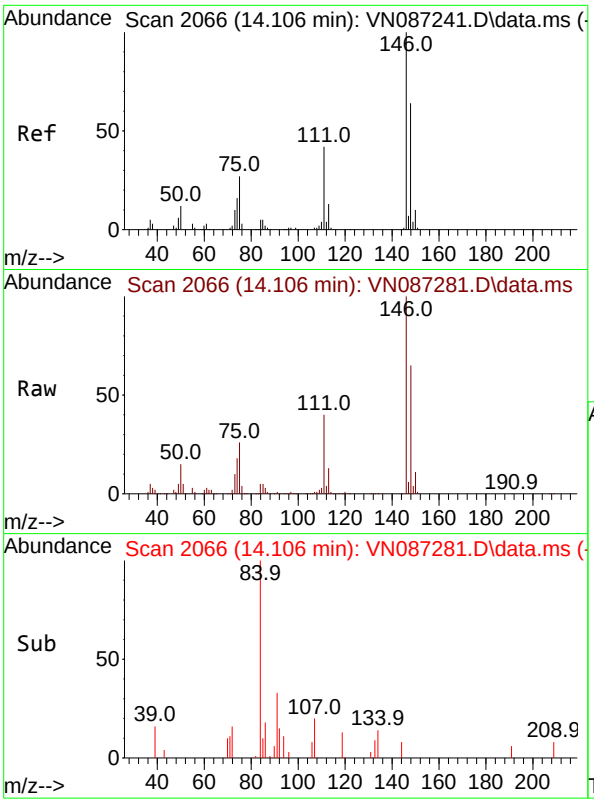


#90
Hexachloroethane
Concen: 46.466 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Tgt Ion:117 Resp: 107702

Ion	Ratio	Lower	Upper
117	100		
201	75.2	35.8	107.4



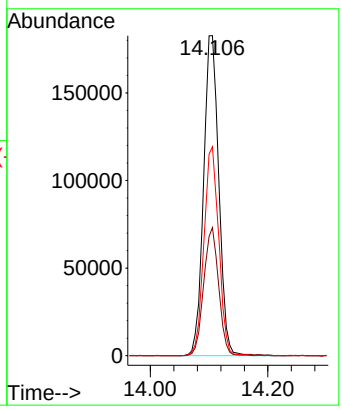


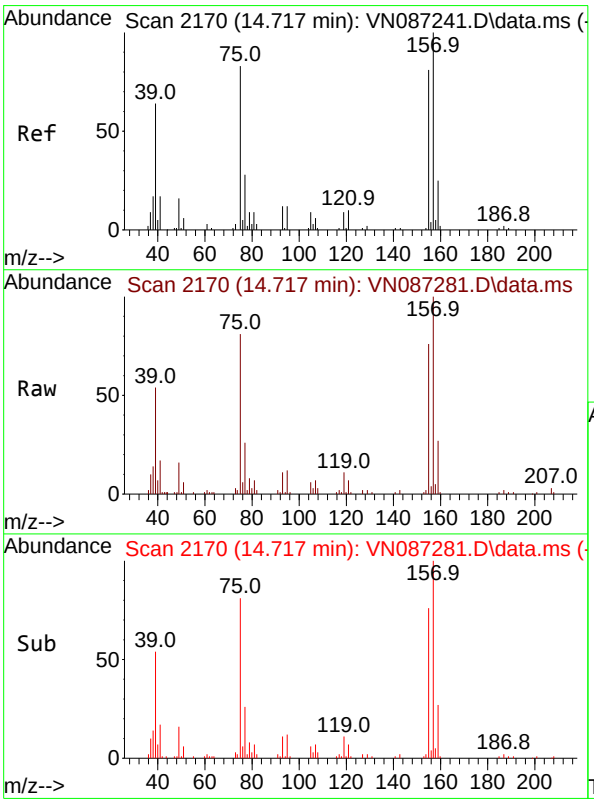
#91
1,2-Dichlorobenzene
Concen: 48.034 ug/l
RT: 14.106 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Instrument :
MSVOA_N
ClientSampleId :
BFB

Tgt Ion:146 Resp: 327754

Ion	Ratio	Lower	Upper
146	100		
111	39.2	20.5	61.6
148	63.6	31.4	94.3

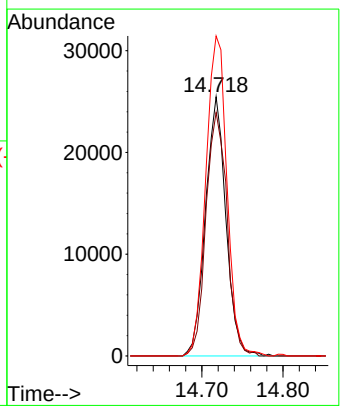


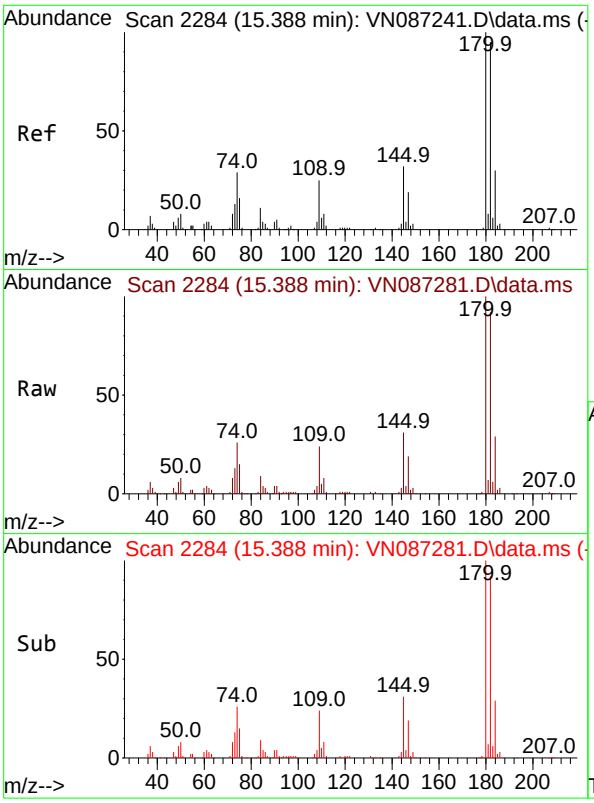


#92
1,2-Dibromo-3-Chloropropane
Concen: 40.250 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Tgt Ion: 75 Resp: 44652

Ion	Ratio	Lower	Upper
75	100		
155	96.2	46.8	140.3
157	127.4	58.1	174.4



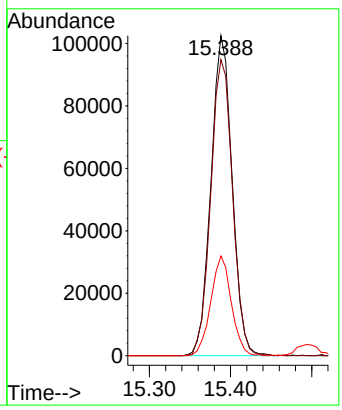


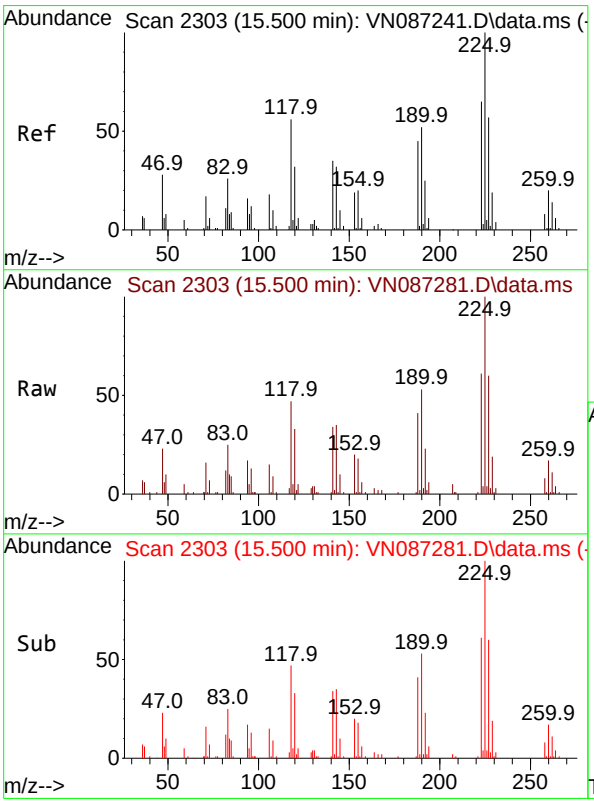
#93
1,2,4-Trichlorobenzene
Concen: 46.084 ug/l
RT: 15.388 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Instrument :
MSVOA_N
ClientSampleId :
BFB

Tgt Ion:180 Resp: 185946

Ion	Ratio	Lower	Upper
180	100		
182	95.2	48.0	144.0
145	30.2	15.4	46.2

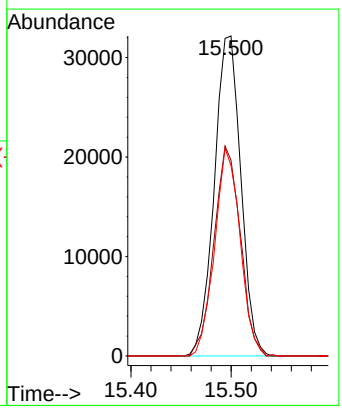


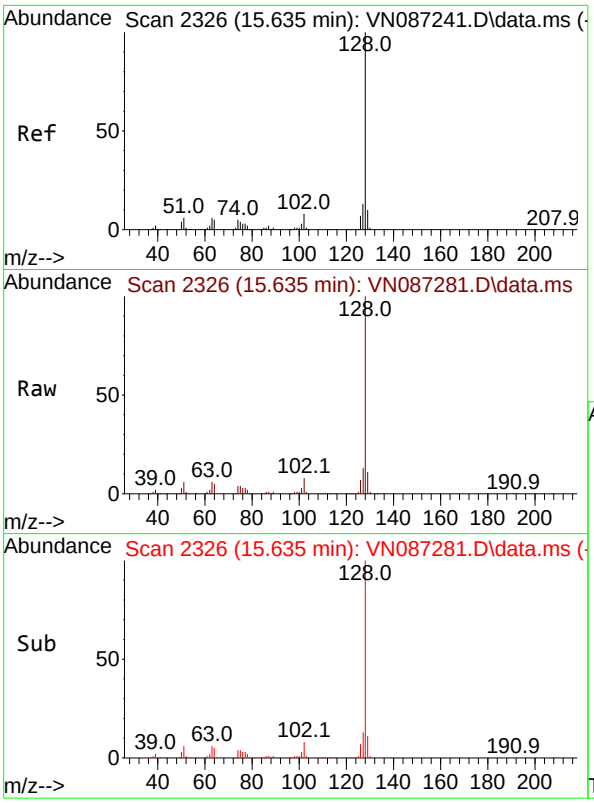


#94
Hexachlorobutadiene
Concen: 46.213 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Tgt Ion:225 Resp: 59234

Ion	Ratio	Lower	Upper
225	100		
223	64.9	33.5	100.4
227	62.4	30.9	92.7



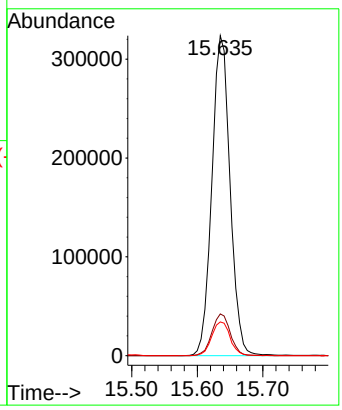


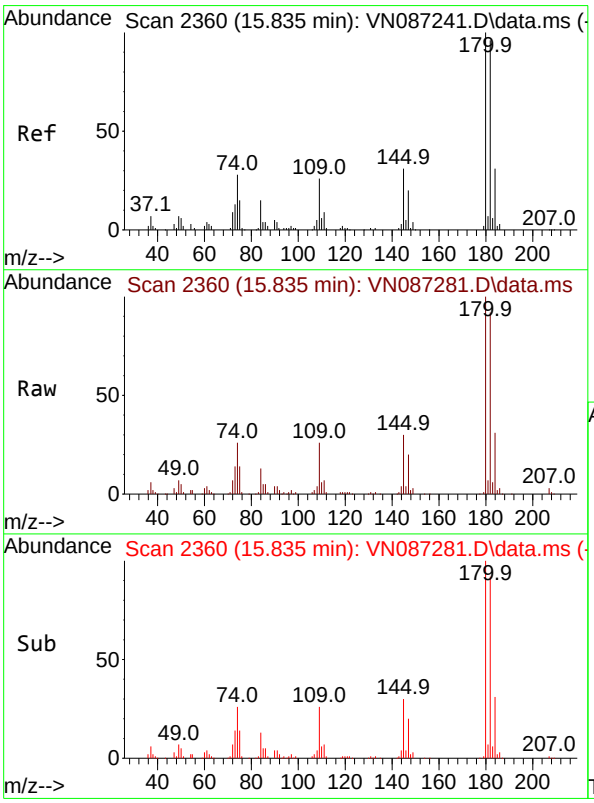
#95
Naphthalene
Concen: 44.669 ug/l
RT: 15.635 min Scan# 2
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Instrument :
MSVOA_N
ClientSampleId :
BFB

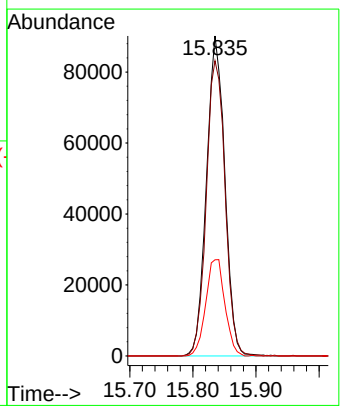
Tgt Ion:128 Resp: 623569

Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.3	15.5
129	10.8	8.6	12.8





#96
1,2,3-Trichlorobenzene
Concen: 46.283 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. 0.000 min
Lab File: VN087281.D
Acq: 07 Jul 2025 09:48

Tgt Ion:180 Resp: 181940

Ion	Ratio	Lower	Upper
180	100		
182	94.6	47.7	143.1
145	31.5	15.7	47.1