Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN110619\
Data File : VN059104.D
Acq On : 6 Nov 2019 13:56
Operator : JC/SP
Sample : K5671-05
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument : MSVOA_N
ClientSampleId : OR-02-110519

Quant Time: Nov 07 04:06:14 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110619W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 07 04:00:41 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	443709	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	686033	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	602171	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	215359	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	272340	49.93	ug/l	0.00
Spiked Amount 50.000			Recovery = 99.86%			
35) Dibromofluoromethane	7.57	113	210227	51.32	ug/l	0.00
Spiked Amount 50.000			Recovery = 102.64%			
50) Toluene-d8	10.08	98	840460	52.09	ug/l	0.00
Spiked Amount 50.000			Recovery = 104.18%			
62) 4-Bromofluorobenzene	12.40	95	267036	45.90	ug/l	0.00
Spiked Amount 50.000			Recovery = 91.80%			
Target Compounds						Qvalue
5) Bromomethane	2.56	94	937	0.276	ug/l #	79
13) Acrolein	3.59	56	228	0.425	ug/l #	14
14) Allyl chloride	4.53	41	39398	4.634	ug/l #	28
16) Acetone	3.80	43	18178	6.409	ug/l	96
17) Carbon Disulfide	4.03	76	5004	0.389	ug/l #	91
18) Methyl Acetate	4.31	43	4367	0.649	ug/l #	66
20) Methylene Chloride	4.53	84	1002065	202.791	ug/l	98
29) Tetrahydrofuran	7.20	42	904	0.381	ug/l #	41
31) Cyclohexane	7.64	56	9278	1.093	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	33531	5.229	ug/l #	49
38) Carbon Tetrachloride	7.64	117	42068	6.591	ug/l #	16
43) Isopropyl Acetate	8.15	43	108226	9.516	ug/l #	92
45) 1,2-Dichloropropane	9.26	63	2324	0.443	ug/l #	44
48) Methyl methacrylate	9.17	41	6351	1.248	ug/l #	14
49) 1,4-Dioxane	9.26	88	141	1.560	ug/l #	1
51) 4-Methyl-2-Pentanone	9.97	43	8305	1.291	ug/l	95
52) Toluene	10.14	92	2822	0.244	ug/l	96
54) cis-1,3-Dichloropropene	9.90	75	44882	5.534	ug/l #	63
56) Ethyl methacrylate	10.42	69	188	1.896	ug/l #	25
59) 2-Hexanone	10.76	43	114737	23.230	ug/l #	53
68) m/p-Xylenes	11.62	106	2940	0.377	ug/l	98
74) N-amyl acetate	12.03	43	3326	0.501	ug/l #	46
76) 1,2,3-Trichloropropane	12.40	75	132854	27.096	ug/l #	100
78) n-propylbenzene	12.60	91	3660	0.204	ug/l	95
80) 1,3,5-Trimethylbenzene	12.73	105	6146	0.463	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.40	75	132854	71.569	ug/l #	13
82) 4-Chlorotoluene	12.78	91	2596	0.233	ug/l	85
84) 1,2,4-Trimethylbenzene	13.04	105	5603	0.436	ug/l	98
87) 1,3-Dichlorobenzene	13.29	146	1979	0.294	ug/l	95
88) 1,4-Dichlorobenzene	13.29	146	1979	0.293	ug/l	94
89) n-Butylbenzene	13.62	91	3558	0.309	ug/l	90
91) 1,2-Dichlorobenzene	13.66	146	1917	0.289	ug/l	91
92) 1,2-Dibromo-3-Chloropropan	14.27	75	452	0.451	ug/l #	40
93) 1,2,4-Trichlorobenzene	14.91	180	3233	3.801	ug/l #	80

Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN110619\
Data File : VN059104.D
Acq On : 6 Nov 2019 13:56
Operator : JC/SP
Sample : K5671-05
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument : MSVOA_N
ClientSampleId : OR-02-110519

Quant Time: Nov 07 04:06:14 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110619W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 07 04:00:41 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
94) Hexachlorobutadiene	15.01	225	1060	0.464 ug/l	92
95) Naphthalene	15.13	128	28277	5.424 ug/l	99
96) 1,2,3-Trichlorobenzene	15.30	180	4301	1.158 ug/l	93

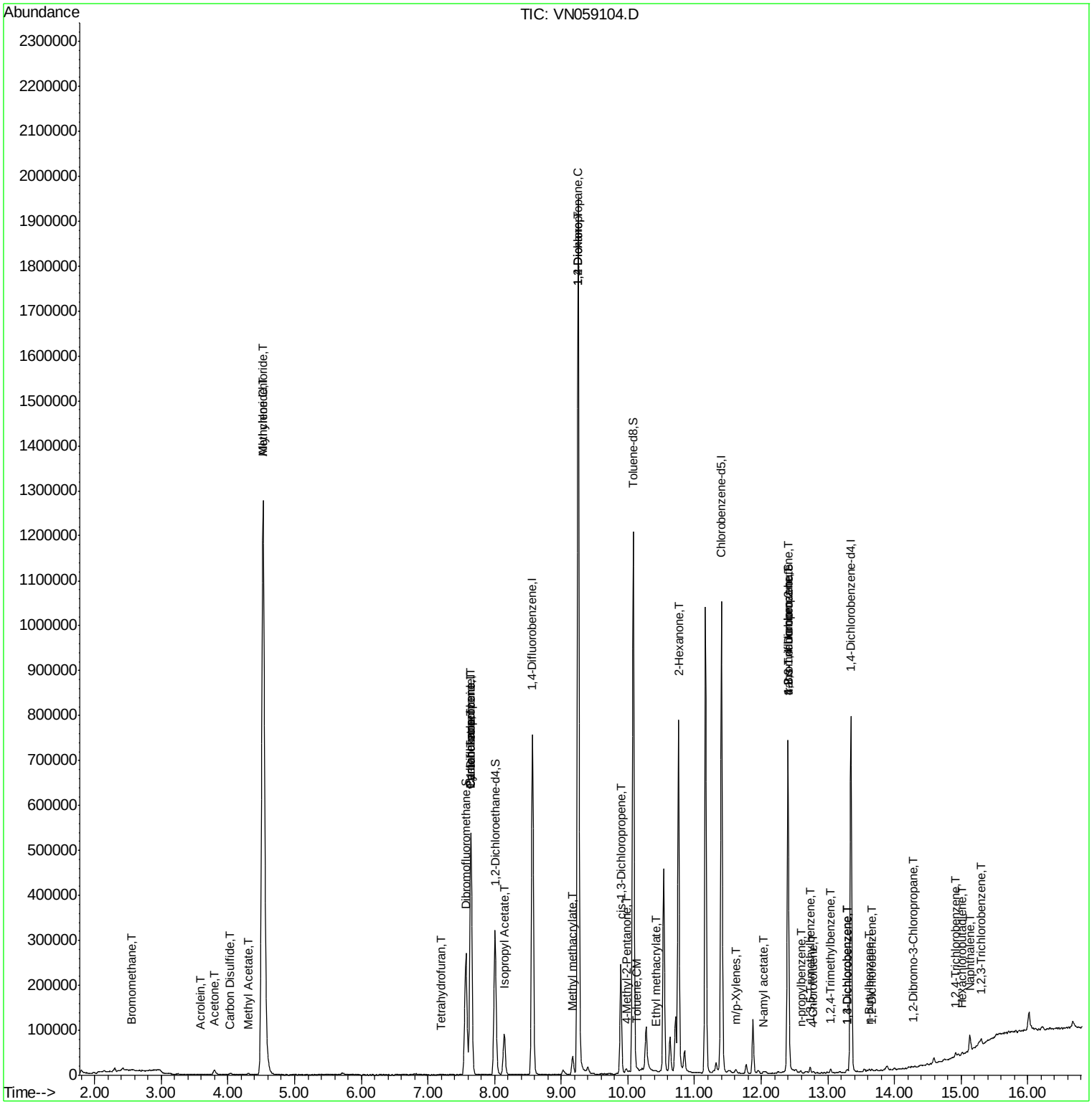
(#) = qualifier out of range (m) = manual integration (+) = signals summed

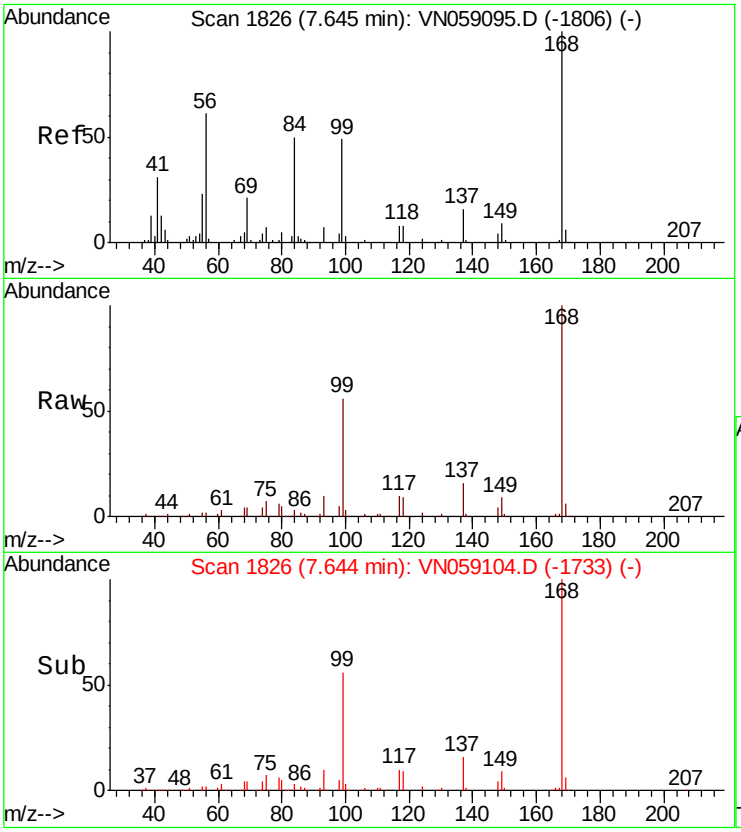
Quantitation Report (Not Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN110619\
Data File : VN059104.D
Acq On : 6 Nov 2019 13:56
Operator : JC/SP
Sample : K5671-05
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
OR-02-110519

Quant Time: Nov 07 04:06:14 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110619W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 07 04:00:41 2019
Response via : Initial Calibration

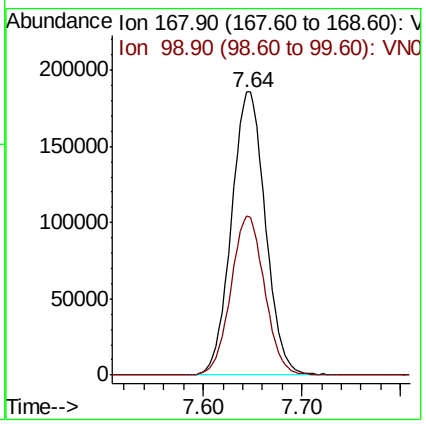




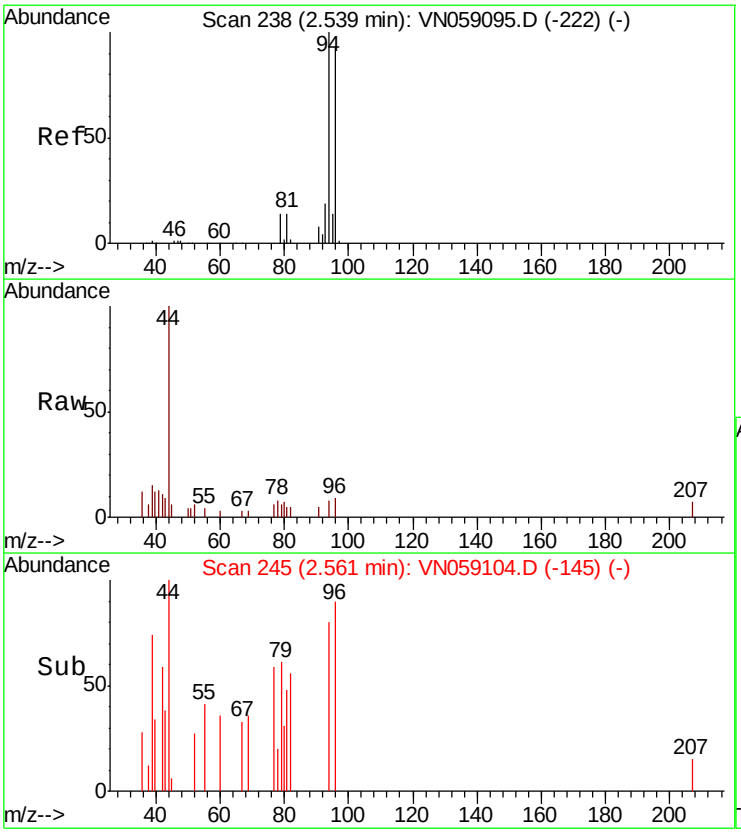
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. -0.00 min
Lab File: VN059104.D
Acq: 6 Nov 2019 13:56

Tgt Ion:168 Resp: 443709

Ion	Ratio	Lower	Upper
168	100		
99	56.5	45.7	68.5



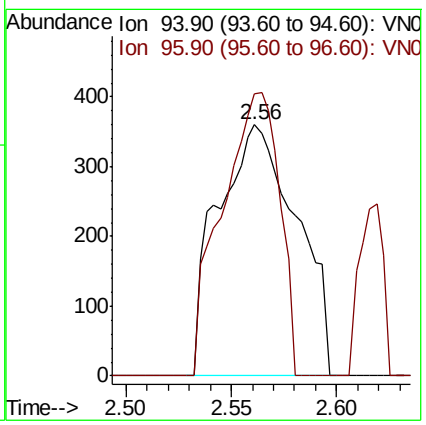
Instrument :
MSVOA_N
ClientSampleId :
OR-02-110519

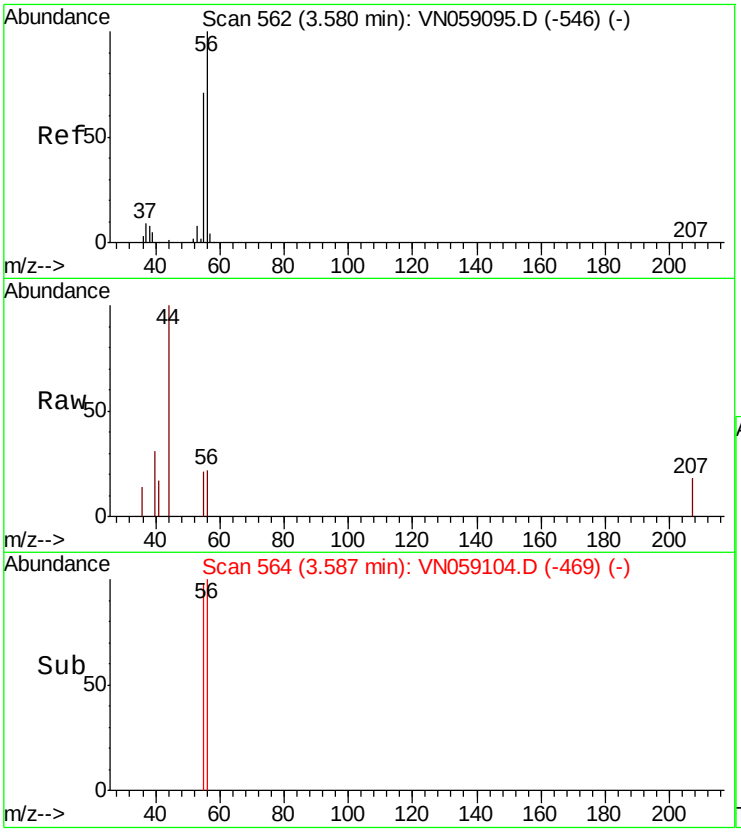


#5
Bromomethane
Concen: 0.276 ug/l
RT: 2.56 min Scan# 245
Delta R.T. 0.02 min
Lab File: VN059104.D
Acq: 6 Nov 2019 13:56

Tgt Ion: 94 Resp: 937

Ion	Ratio	Lower	Upper
94	100		
96	112.5	74.2	111.2#



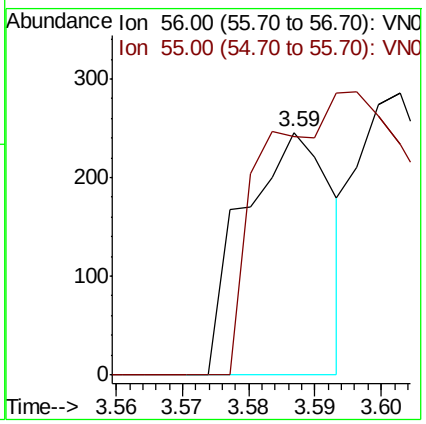


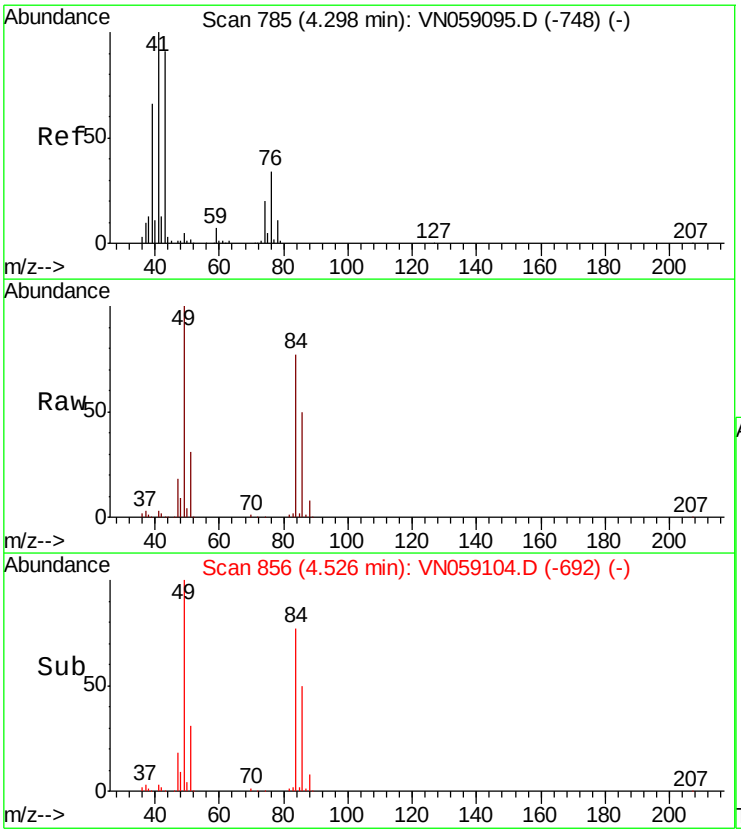
#13
Acrolein
Concen: 0.425 ug/l
RT: 3.59 min Scan# 564
Delta R.T. 0.01 min
Lab File: VN059104.D
Acq: 6 Nov 2019 13:56

Instrument : MSVOA_N
ClientSampleId : OR-02-110519

Tgt Ion: 56 Resp: 228

Ion	Ratio	Lower	Upper
56	100		
55	0.0	56.4	84.6#

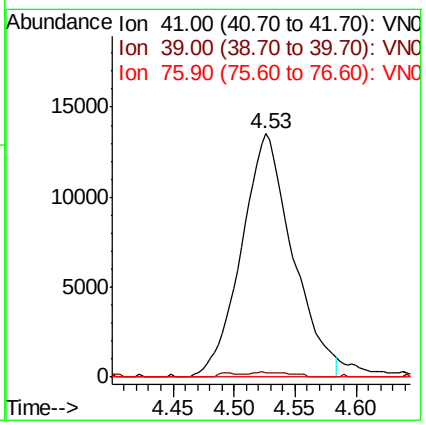


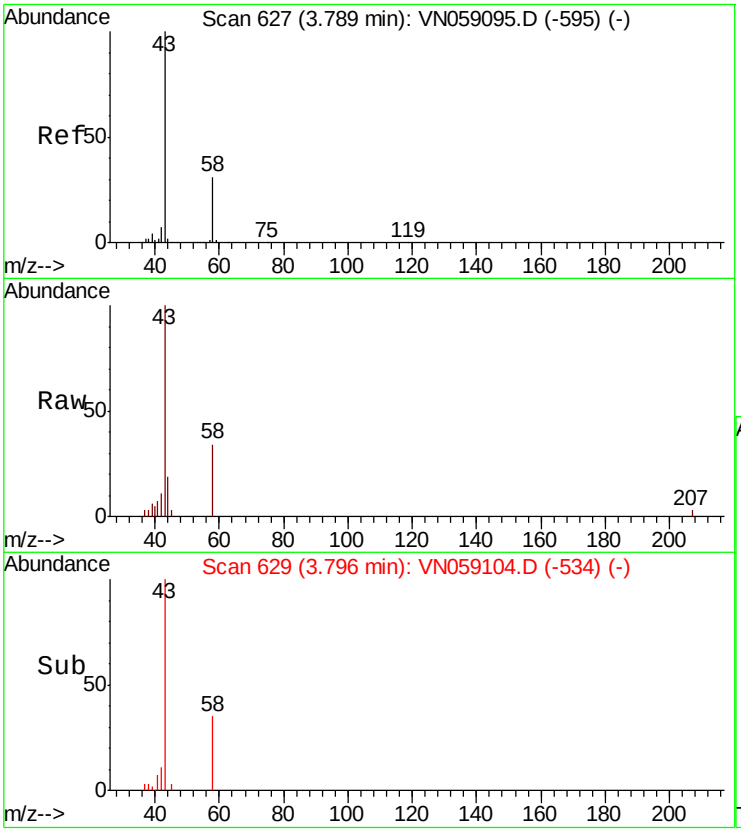


#14
Allyl chloride
Concen: 4.634 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.23 min
Lab File: VN059104.D
Acq: 6 Nov 2019 13:56

Tgt Ion: 41 Resp: 39398

Ion	Ratio	Lower	Upper
41	100		
39	0.6	49.1	73.7#
76	0.0	24.9	37.3#



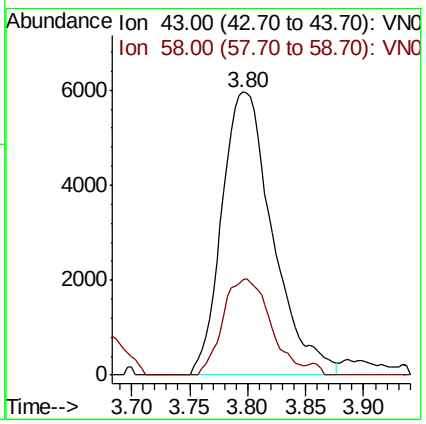


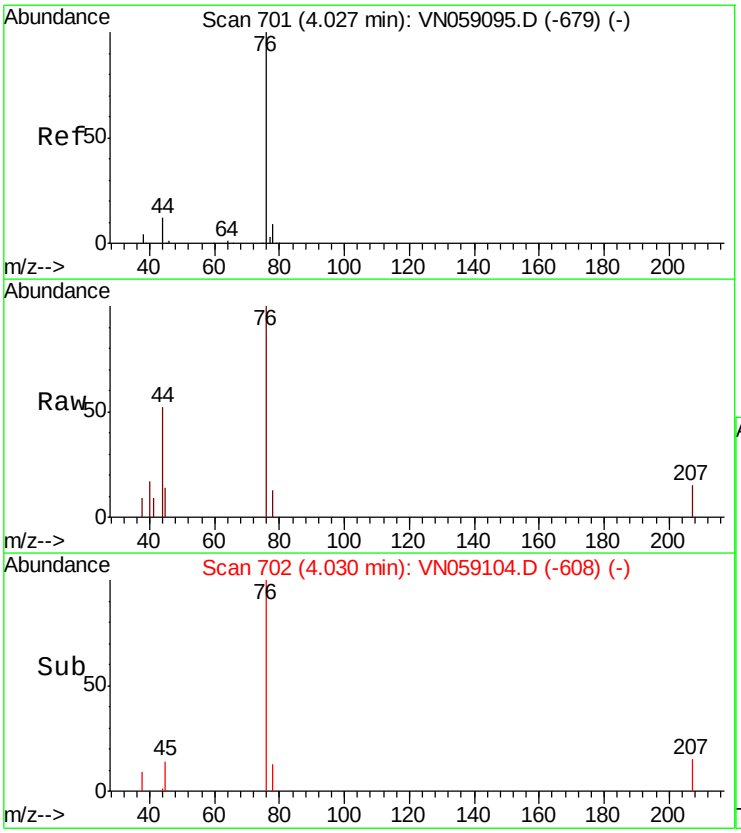
#16
Acetone
Concen: 6.409 ug/l
RT: 3.80 min Scan# 629
Delta R.T. 0.01 min
Lab File: VN059104.D
Acq: 6 Nov 2019 13:56

Instrument : MSVOA_N
ClientSampleId : OR-02-110519

Tgt Ion: 43 Resp: 18178

Ion	Ratio	Lower	Upper
43	100		
58	33.6	24.9	37.3

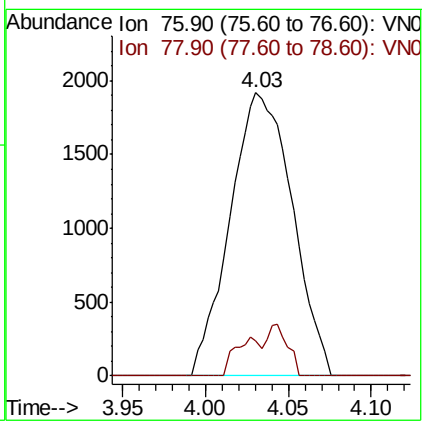


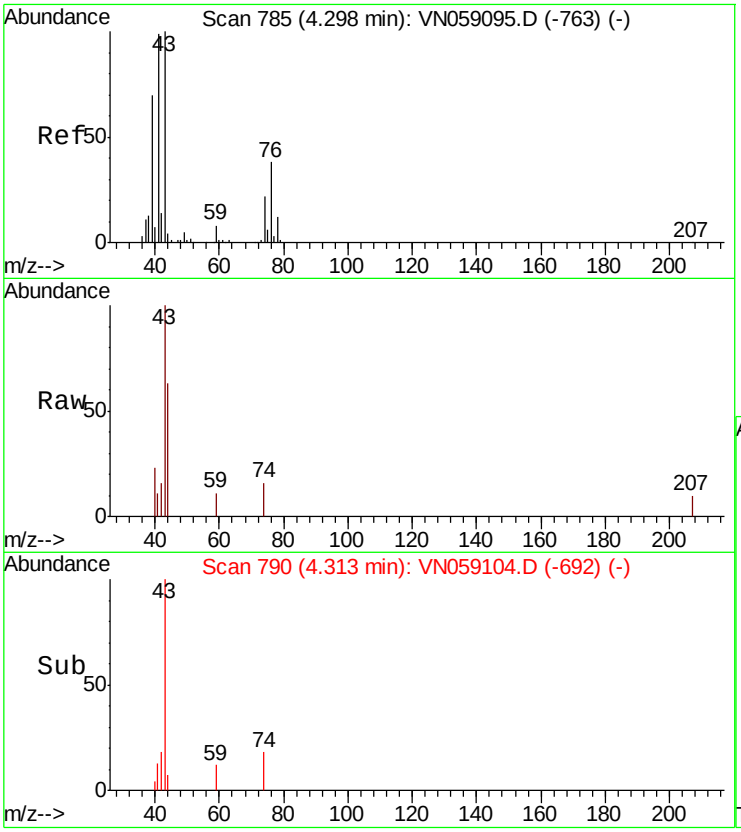


#17
Carbon Disulfide
Concen: 0.389 ug/l
RT: 4.03 min Scan# 702
Delta R.T. 0.00 min
Lab File: VN059104.D
Acq: 6 Nov 2019 13:56

Tgt Ion: 76 Resp: 5004

Ion	Ratio	Lower	Upper
76	100		
78	12.6	7.4	11.0#



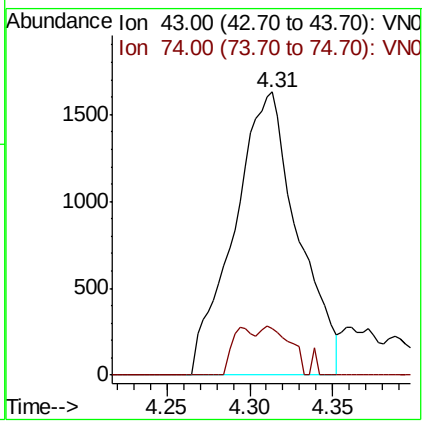


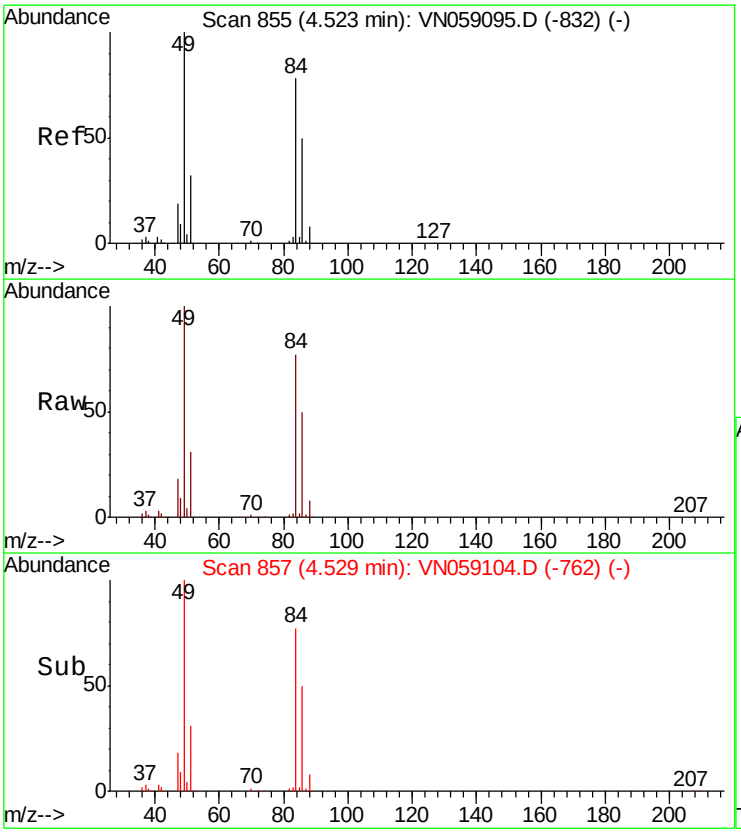
#18
Methyl Acetate
Concen: 0.649 ug/l
RT: 4.31 min Scan# 790
Delta R.T. 0.02 min
Lab File: VN059104.D
Acq: 6 Nov 2019 13:56

Instrument : MSVOA_N
ClientSampleId : OR-02-110519

Tgt Ion: 43 Resp: 4367

Ion	Ratio	Lower	Upper
43	100		
74	6.1	17.8	26.8#

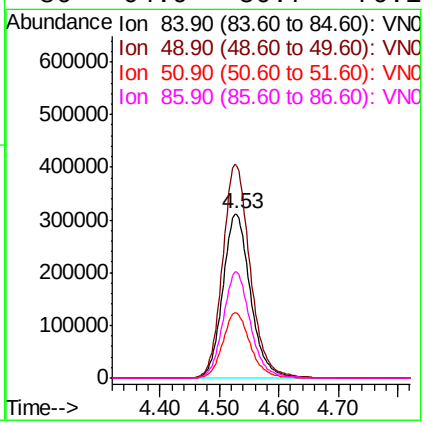


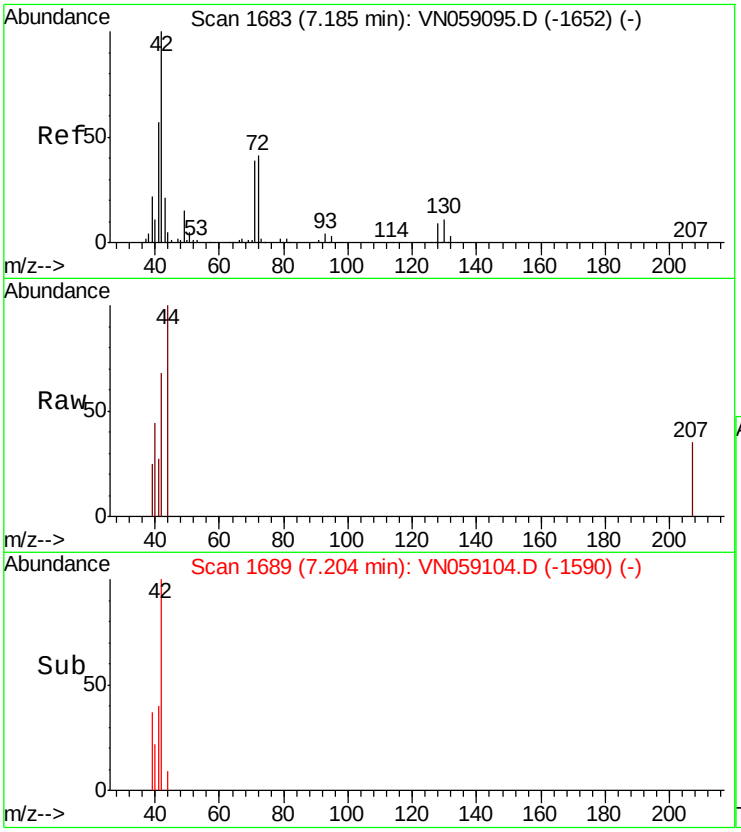


#20
Methylene Chloride
Concen: 202.791 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.01 min
Lab File: VN059104.D
Acq: 6 Nov 2019 13:56

Tgt Ion: 84 Resp: 1002065

Ion	Ratio	Lower	Upper
84	100		
49	129.5	102.0	153.0
51	39.7	32.2	48.2
86	64.9	50.7	76.1



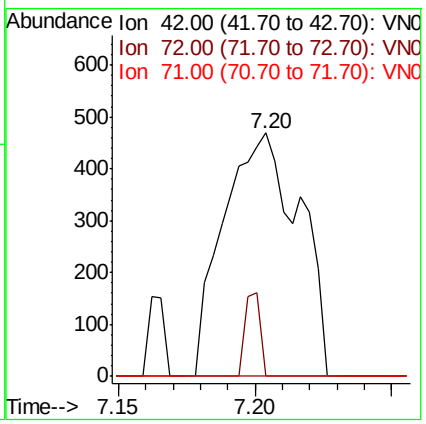


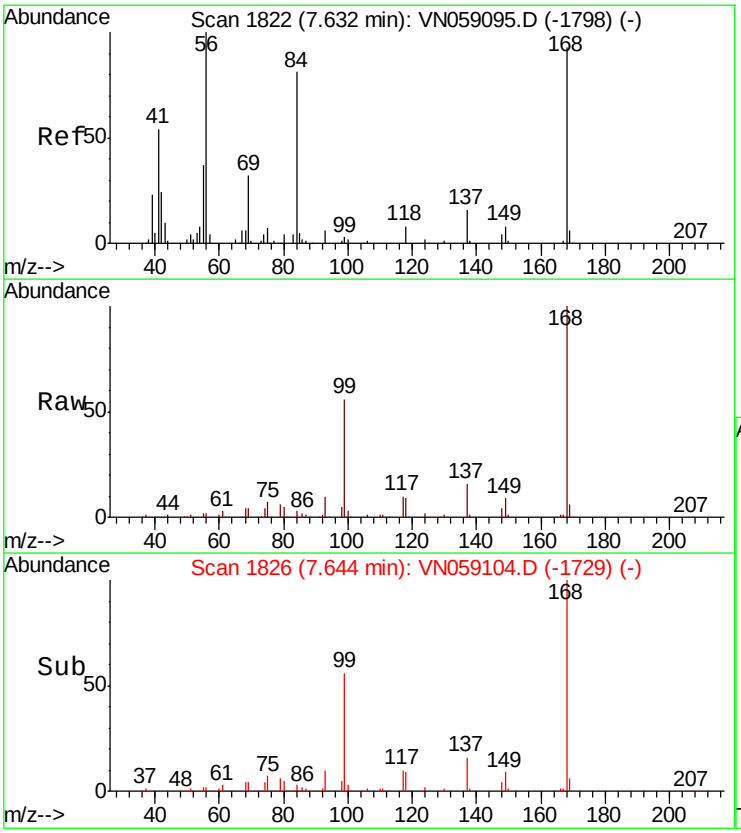
#29
Tetrahydrofuran
Concen: 0.381 ug/l
RT: 7.20 min Scan# 1689
Delta R.T. 0.02 min
Lab File: VN059104.D
Acq: 6 Nov 2019 13:56

Instrument : MSVOA_N
ClientSampleId : OR-02-110519

Tgt Ion: 42 Resp: 904

Ion	Ratio	Lower	Upper
42	100		
72	6.7	33.1	49.7#
71	0.0	30.9	46.3#

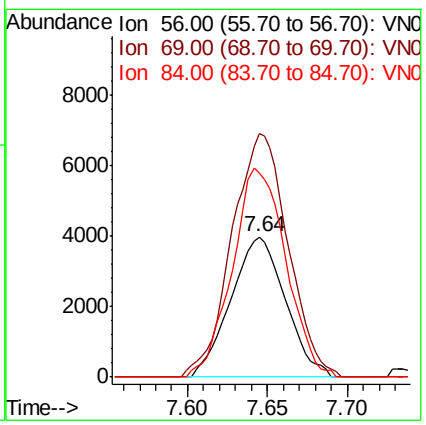


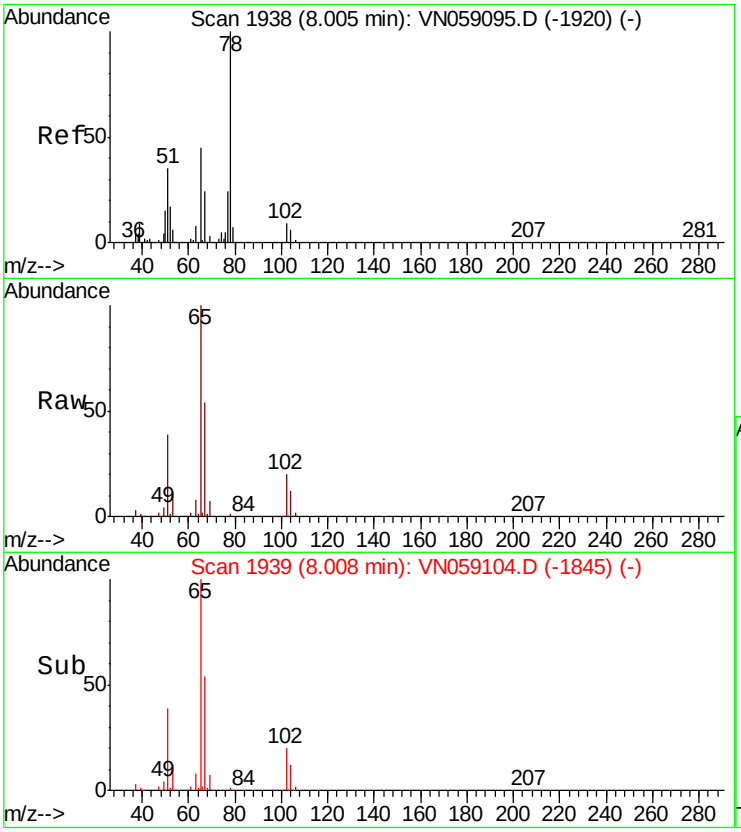


#31
Cyclohexane
Concen: 1.093 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. 0.01 min
Lab File: VN059104.D
Acq: 6 Nov 2019 13:56

Tgt Ion: 56 Resp: 9278

Ion	Ratio	Lower	Upper
56	100		
69	169.3	25.8	38.8#
84	145.7	65.0	97.4#



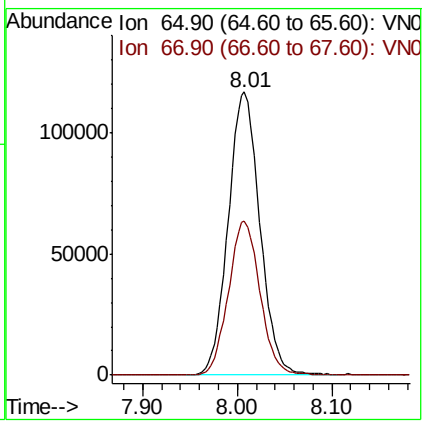


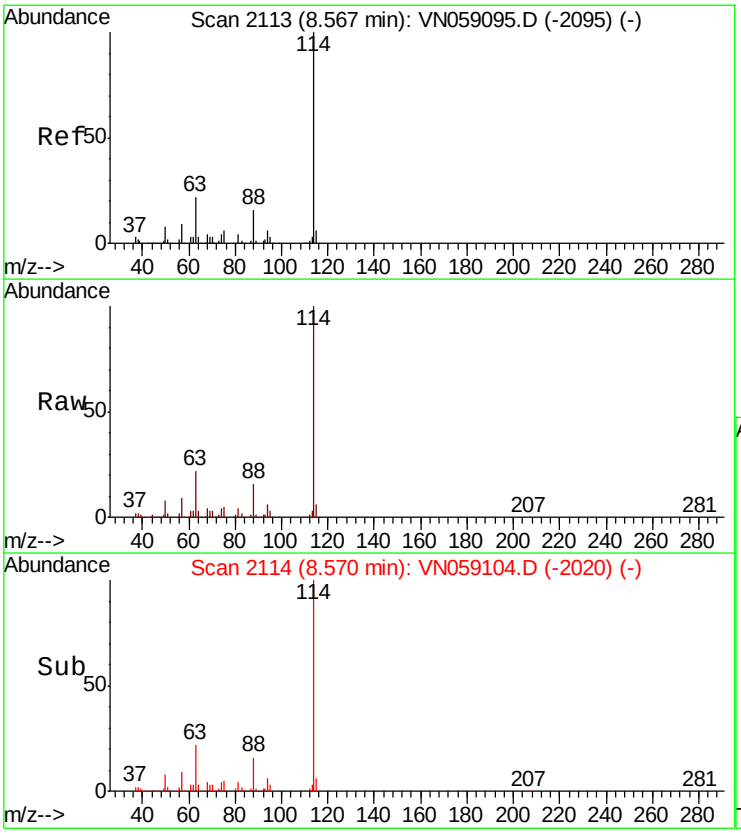
#33
1,2-Dichloroethane-d4
Concen: 49.931 ug/l
RT: 8.01 min Scan# 1939
Delta R.T. 0.00 min
Lab File: VN059104.D
Acq: 6 Nov 2019 13:56

Instrument : MSVOA_N
ClientSampleId : OR-02-110519

Tgt Ion: 65 Resp: 272340

Ion	Ratio	Lower	Upper
65	100		
67	54.2	0.0	107.4

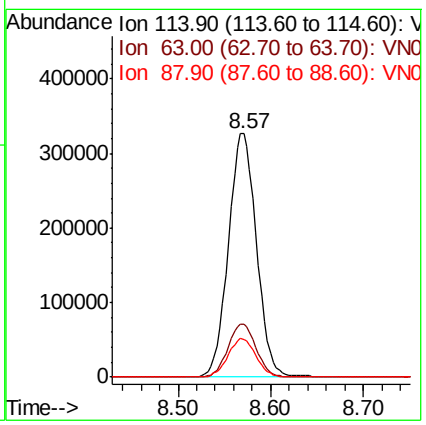


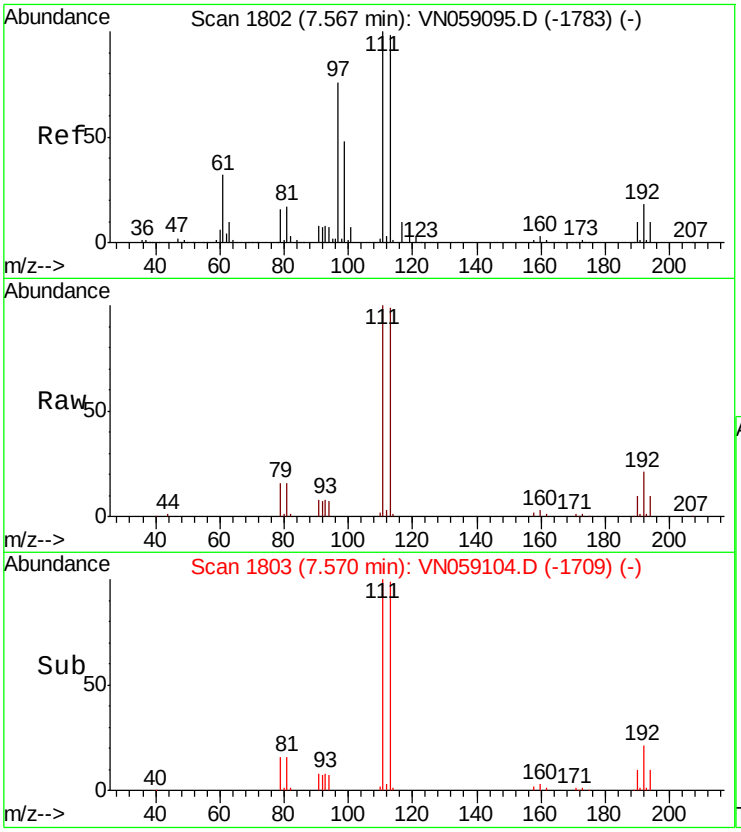


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.57 min Scan# 2114
Delta R.T. 0.00 min
Lab File: VN059104.D
Acq: 6 Nov 2019 13:56

Tgt Ion:114 Resp: 686033

Ion	Ratio	Lower	Upper
114	100		
63	21.8	0.0	43.4
88	15.7	0.0	32.2



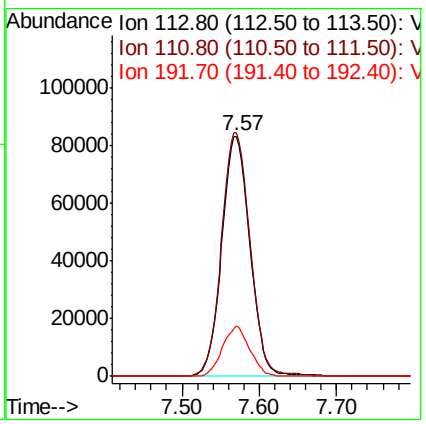


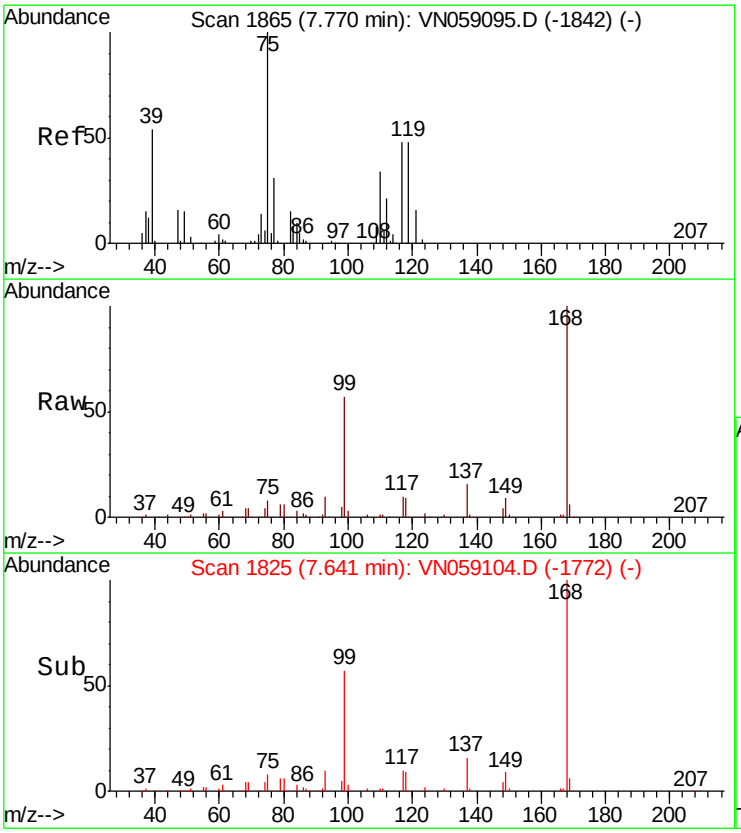
#35
Dibromofluoromethane
Concen: 51.321 ug/l
RT: 7.57 min Scan# 1803
Delta R.T. 0.00 min
Lab File: VN059104.D
Acq: 6 Nov 2019 13:56

Instrument : MSVOA_N
ClientSampleId : OR-02-110519

Tgt Ion:113 Resp: 210227

Ion	Ratio	Lower	Upper
113	100		
111	103.0	82.8	124.2
192	20.1	16.1	24.1

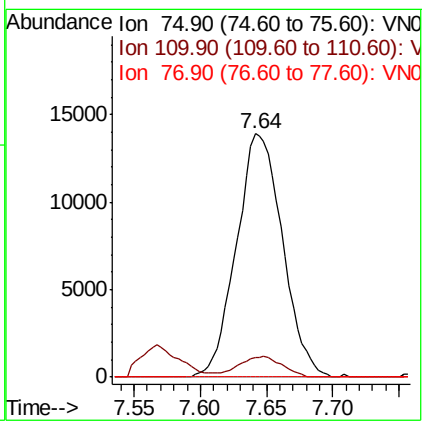


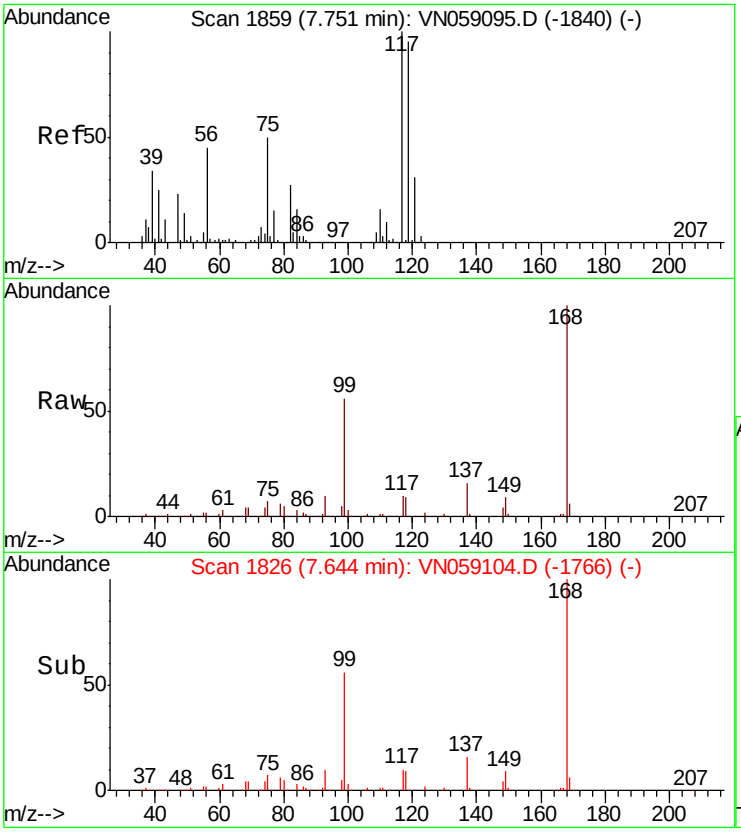


#36
1,1-Dichloropropene
Concen: 5.229 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. -0.13 min
Lab File: VN059104.D
Acq: 6 Nov 2019 13:56

Tgt Ion: 75 Resp: 33531

Ion	Ratio	Lower	Upper
75	100		
110	8.0	17.1	51.2#
77	0.0	24.8	37.2#



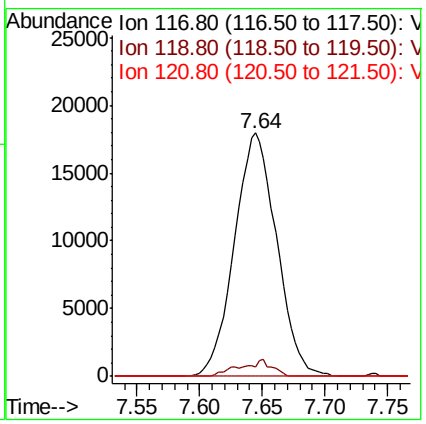


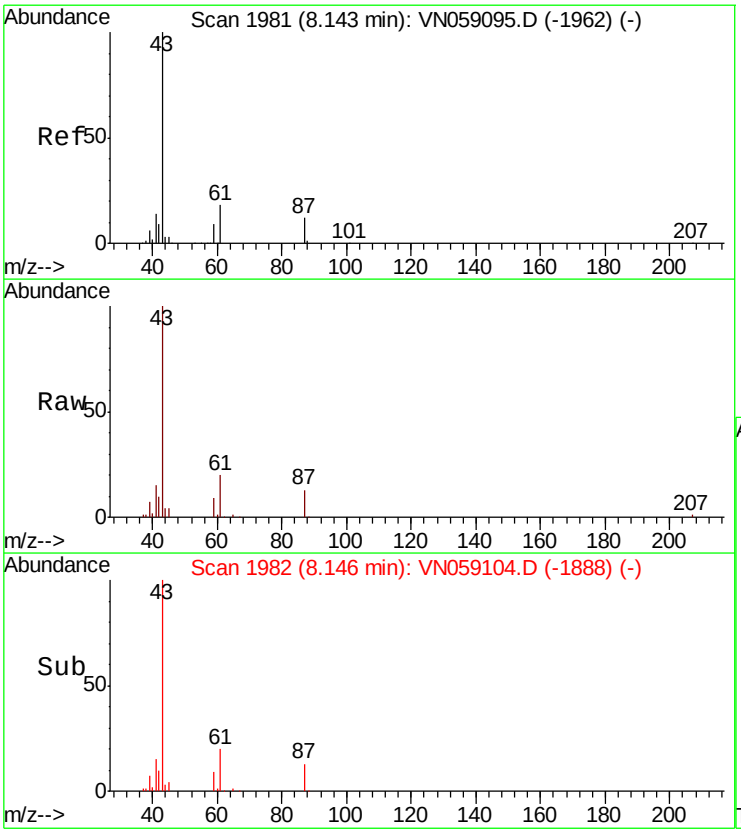
#38
Carbon Tetrachloride
Concen: 6.591 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. -0.11 min
Lab File: VN059104.D
Acq: 6 Nov 2019 13:56

Instrument : MSVOA_N
ClientSampleId : OR-02-110519

Tgt Ion:117 Resp: 42068

Ion	Ratio	Lower	Upper
117	100		
119	3.8	75.6	113.4#
121	0.0	24.6	36.8#

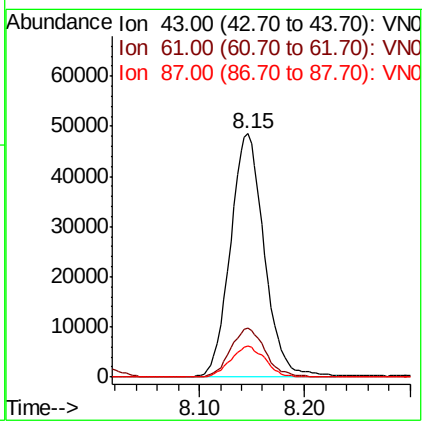


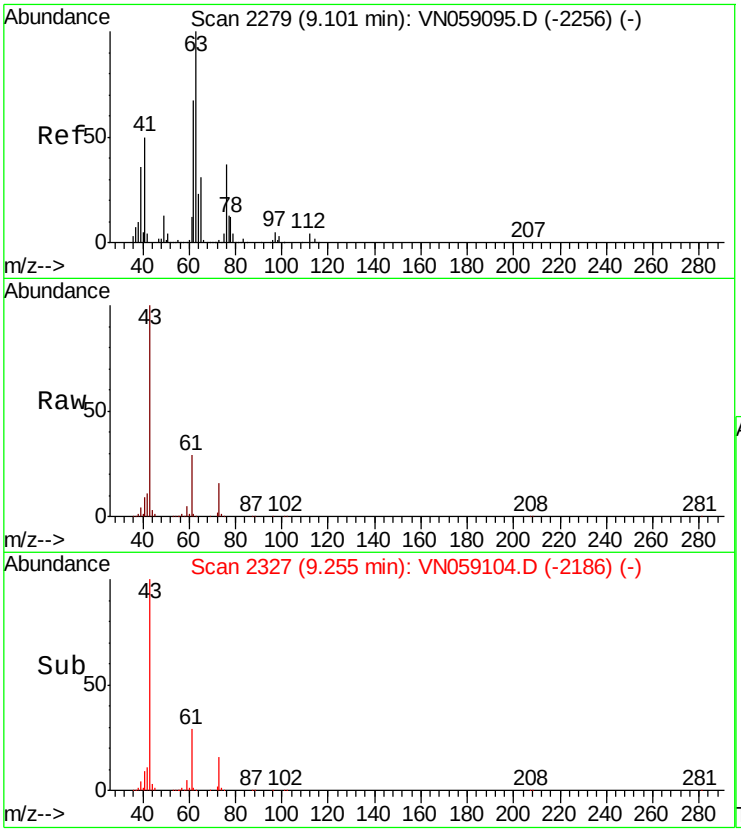


#43
Isopropyl Acetate
Concen: 9.516 ug/l
RT: 8.15 min Scan# 1982
Delta R.T. 0.00 min
Lab File: VN059104.D
Acq: 6 Nov 2019 13:56

Tgt Ion: 43 Resp: 108226

Ion	Ratio	Lower	Upper
43	100		
61	20.4	21.0	31.6#
87	12.7	9.8	14.6



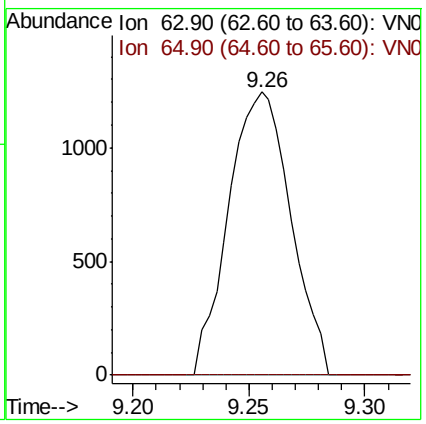


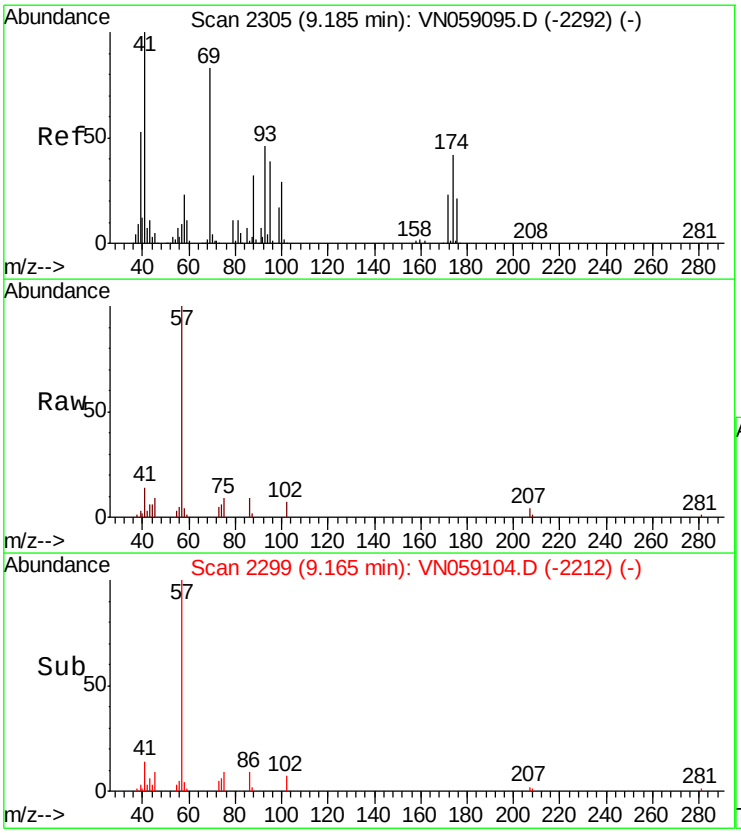
#45
1,2-Dichloropropane
Concen: 0.443 ug/l
RT: 9.26 min Scan# 2327
Delta R.T. 0.15 min
Lab File: VN059104.D
Acq: 6 Nov 2019 13:56

Instrument : MSVOA_N
ClientSampleId : OR-02-110519

Tgt Ion: 63 Resp: 2324

Ion	Ratio	Lower	Upper
63	100		
65	0.0	24.6	37.0#

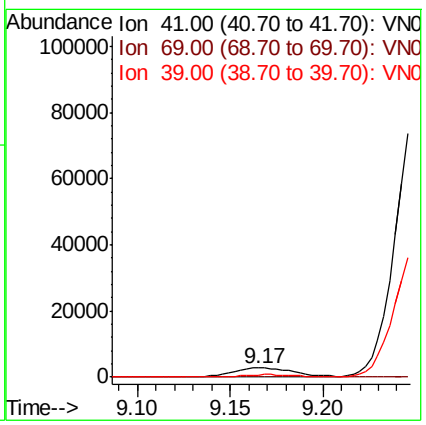


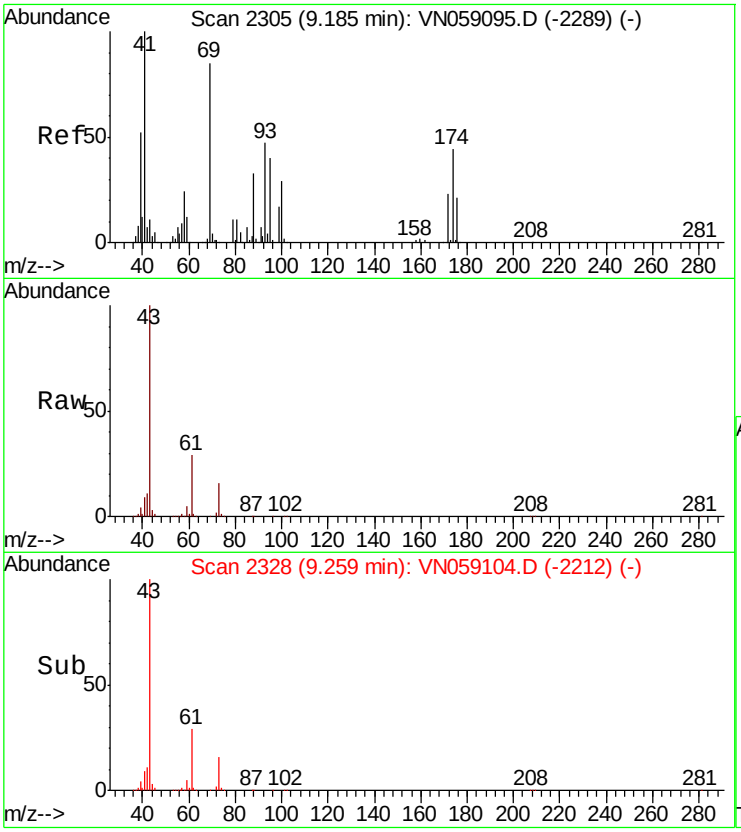


#48
Methyl methacrylate
Concen: 1.248 ug/l
RT: 9.17 min Scan# 2299
Delta R.T. -0.02 min
Lab File: VN059104.D
Acq: 6 Nov 2019 13:56

Tgt Ion: 41 Resp: 6351

Ion	Ratio	Lower	Upper
41	100		
69	0.0	67.3	100.9#
39	0.0	43.3	64.9#



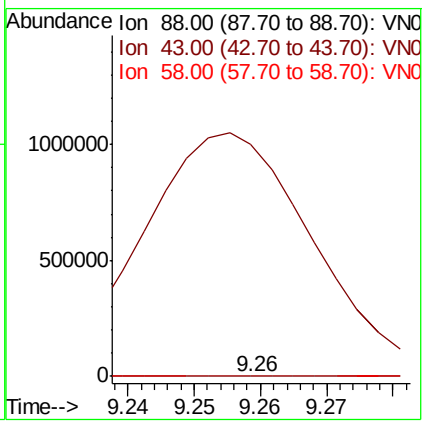


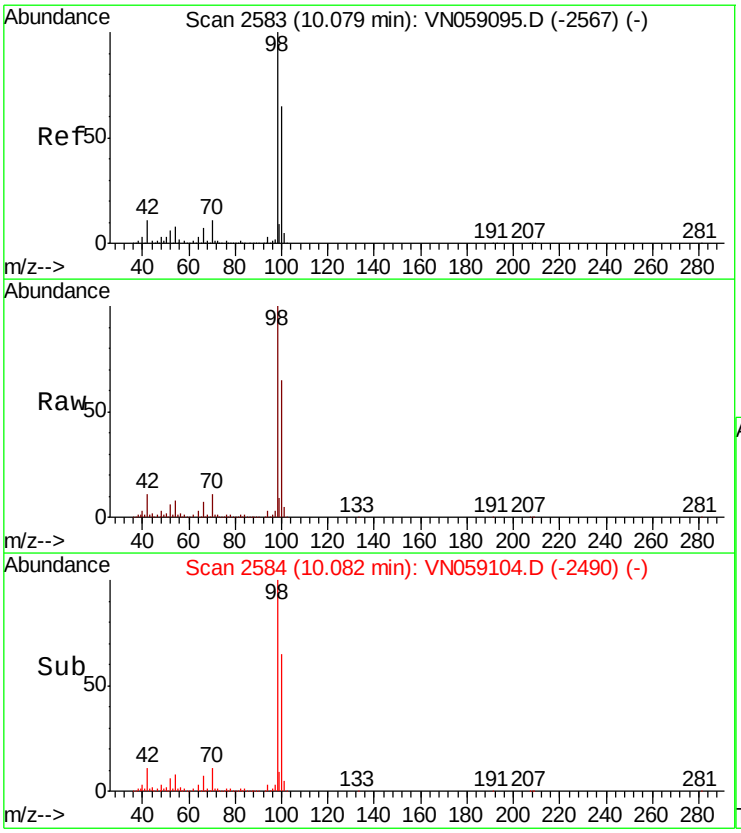
#49
1,4-Dioxane
Concen: 1.560 ug/l
RT: 9.26 min Scan# 2328
Delta R.T. 0.07 min
Lab File: VN059104.D
Acq: 6 Nov 2019 13:56

Instrument : MSVOA_N
ClientSampleId : OR-02-110519

Tgt Ion: 88 Resp: 141

Ion	Ratio	Lower	Upper
88	100		
43	1396266.7	26.3	39.5#
58	6294.3	60.6	90.8#

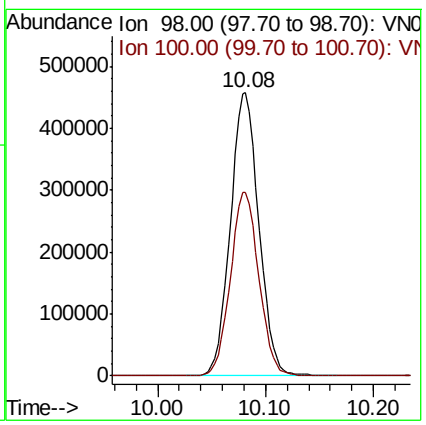


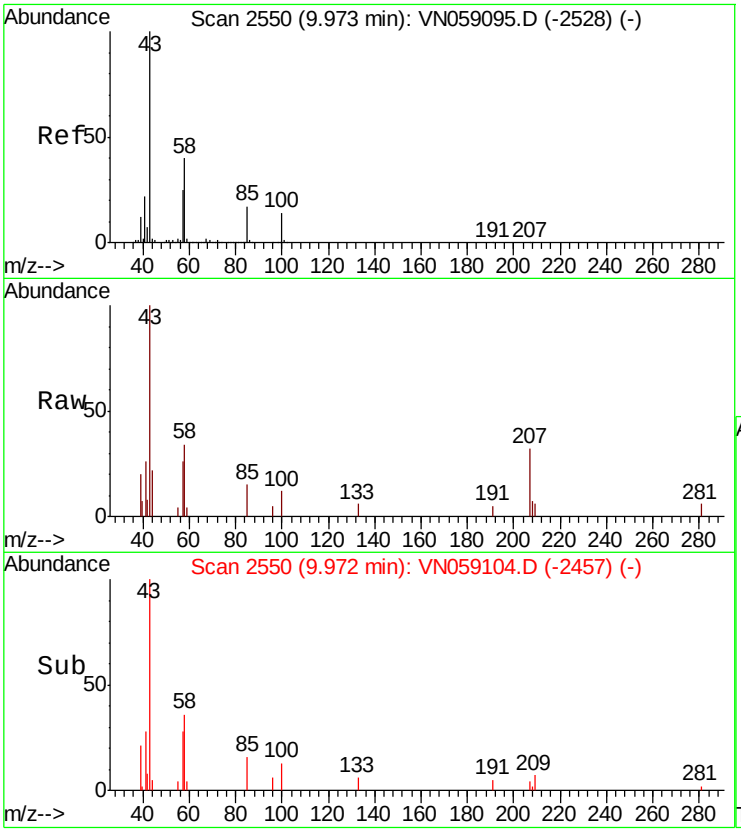


#50
Toluene-d8
Concen: 52.090 ug/l
RT: 10.08 min Scan# 2584
Delta R.T. 0.00 min
Lab File: VN059104.D
Acq: 6 Nov 2019 13:56

Tgt Ion: 98 Resp: 840460

Ion	Ratio	Lower	Upper
98	100		
100	64.9	52.2	78.2



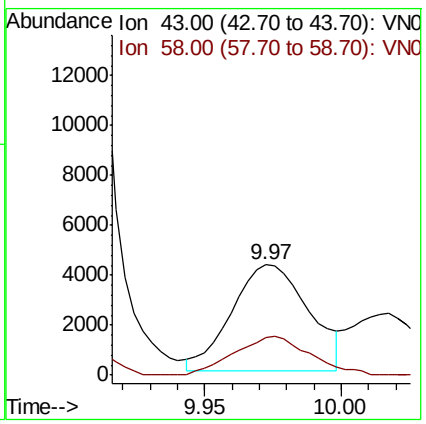


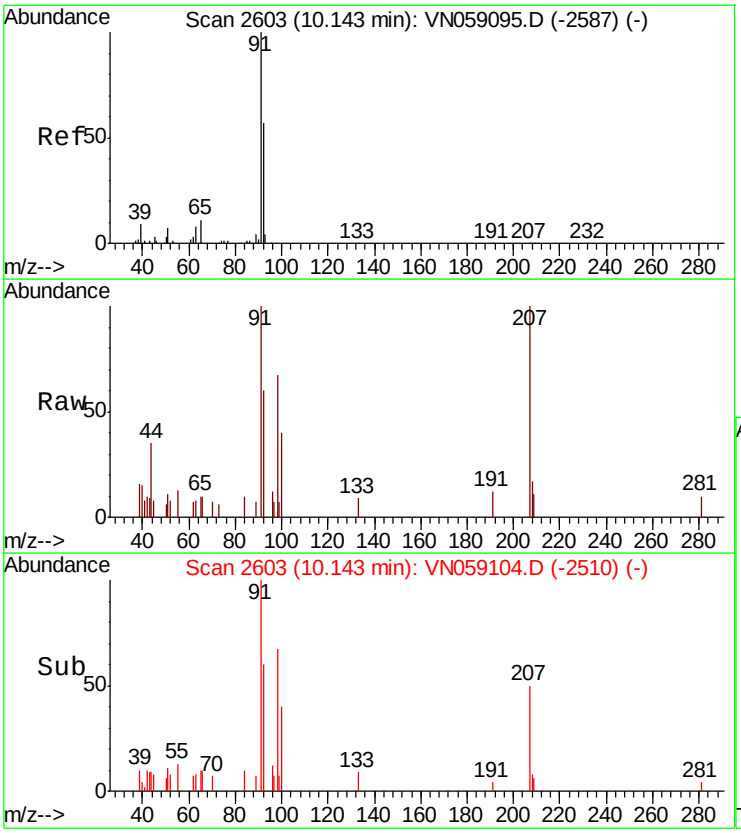
#51
4-Methyl-2-Pentanone
Concen: 1.291 ug/l
RT: 9.97 min Scan# 2550
Delta R.T. -0.00 min
Lab File: VN059104.D
Acq: 6 Nov 2019 13:56

Instrument : MSVOA_N
ClientSampleId : OR-02-110519

Tgt Ion: 43 Resp: 8305

Ion	Ratio	Lower	Upper
43	100		
58	36.1	31.5	47.3

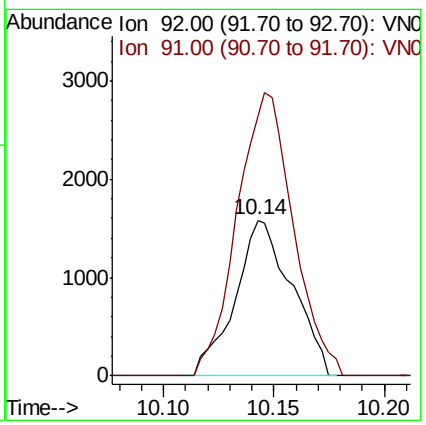


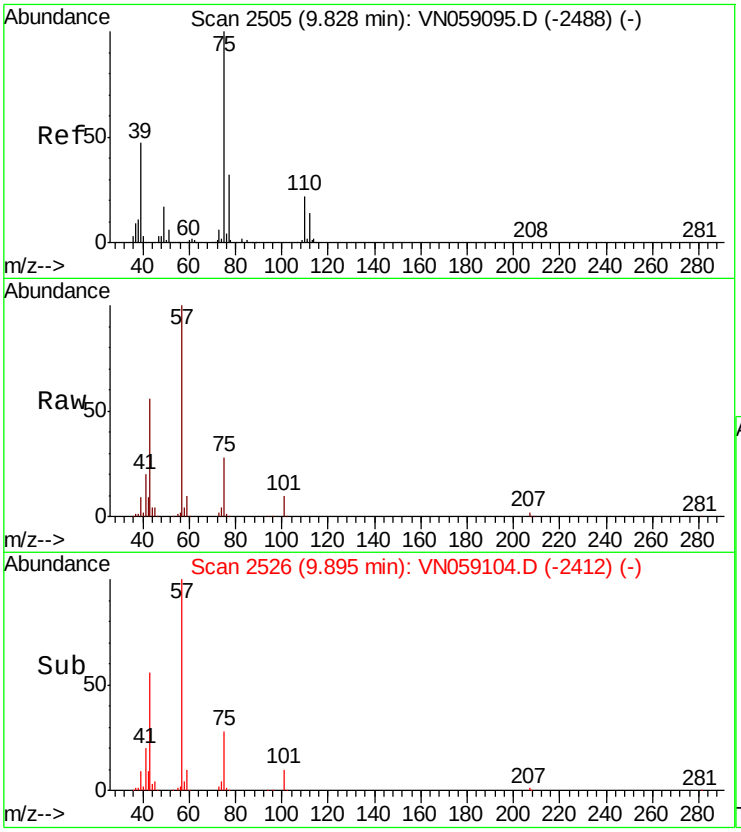


#52
Toluene
Concen: 0.244 ug/l
RT: 10.14 min Scan# 2603
Delta R.T. -0.00 min
Lab File: VN059104.D
Acq: 6 Nov 2019 13:56

Tgt Ion: 92 Resp: 2822

Ion	Ratio	Lower	Upper
92	100		
91	180.2	139.5	209.3



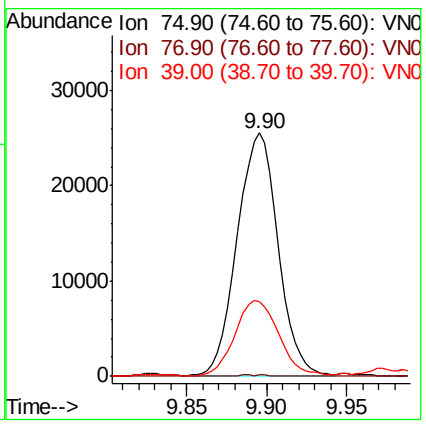


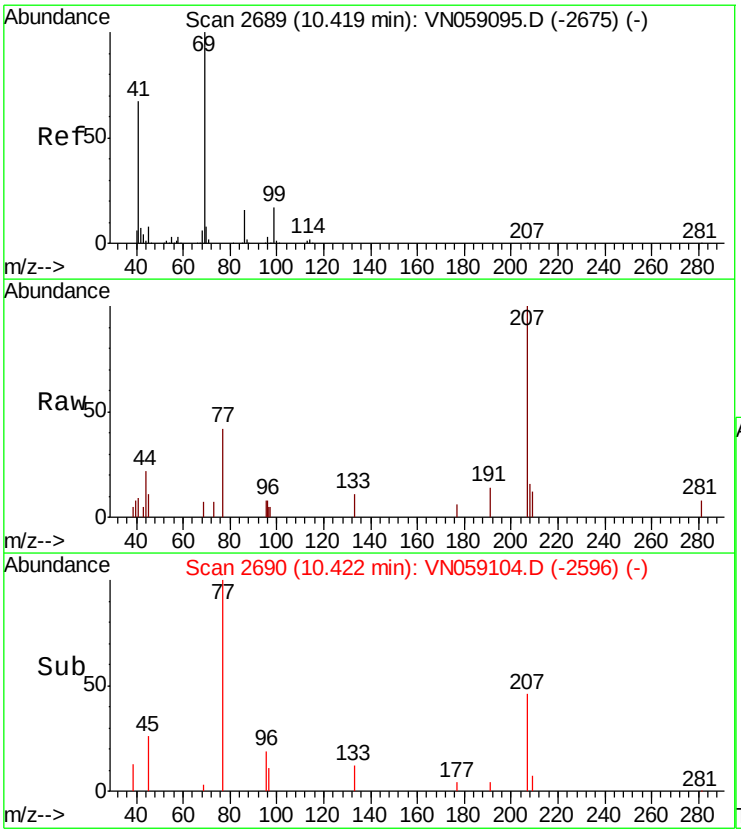
#54
cis-1,3-Dichloropropene
Concen: 5.534 ug/l
RT: 9.90 min Scan# 2526
Delta R.T. 0.07 min
Lab File: VN059104.D
Acq: 6 Nov 2019 13:56

Instrument : MSVOA_N
ClientSampleId : OR-02-110519

Tgt Ion: 75 Resp: 44882

Ion	Ratio	Lower	Upper
75	100		
77	0.7	25.5	38.3#
39	30.8	37.3	55.9#

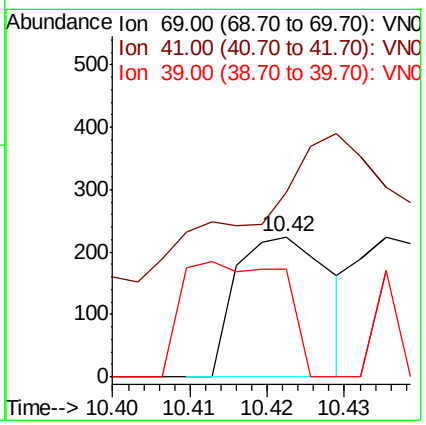


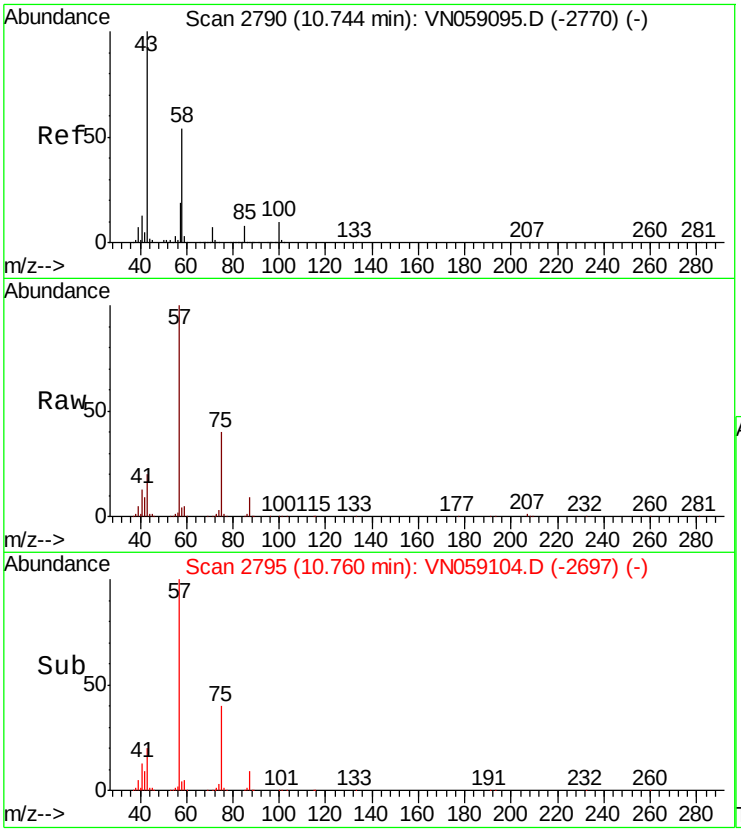


#56
Ethyl methacrylate
Concen: 1.896 ug/l
RT: 10.42 min Scan# 2690
Delta R.T. 0.00 min
Lab File: VN059104.D
Acq: 6 Nov 2019 13:56

Tgt Ion: 69 Resp: 188

Ion	Ratio	Lower	Upper
69	100		
41	0.0	53.6	80.4#
39	0.0	26.2	39.4#



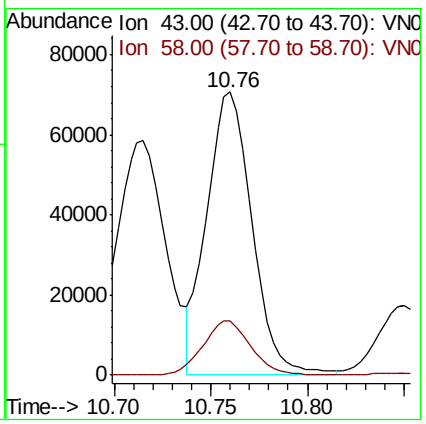


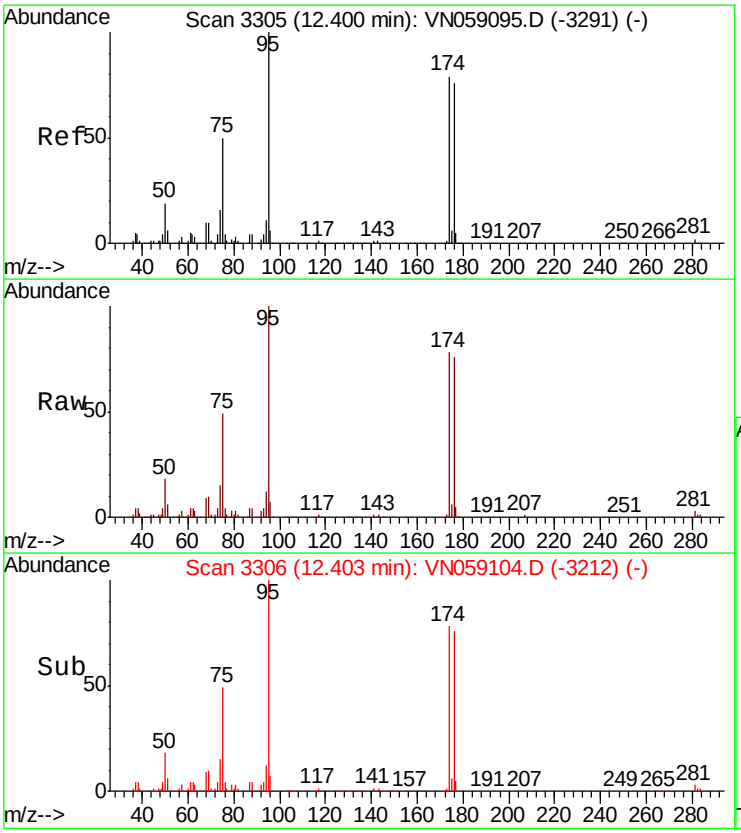
#59
2-Hexanone
Concen: 23.230 ug/l
RT: 10.76 min Scan# 2795
Delta R.T. 0.02 min
Lab File: VN059104.D
Acq: 6 Nov 2019 13:56

Instrument : MSVOA_N
ClientSampleId : OR-02-110519

Tgt Ion: 43 Resp: 114737

Ion	Ratio	Lower	Upper
43	100		
58	20.4	27.3	81.8#

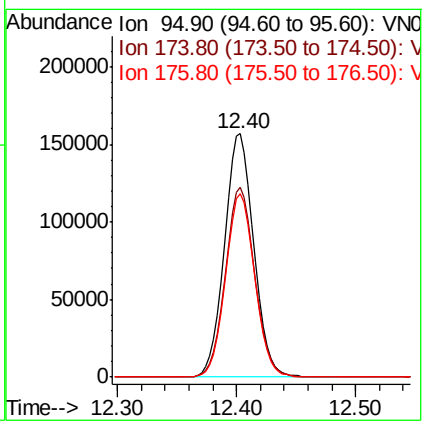


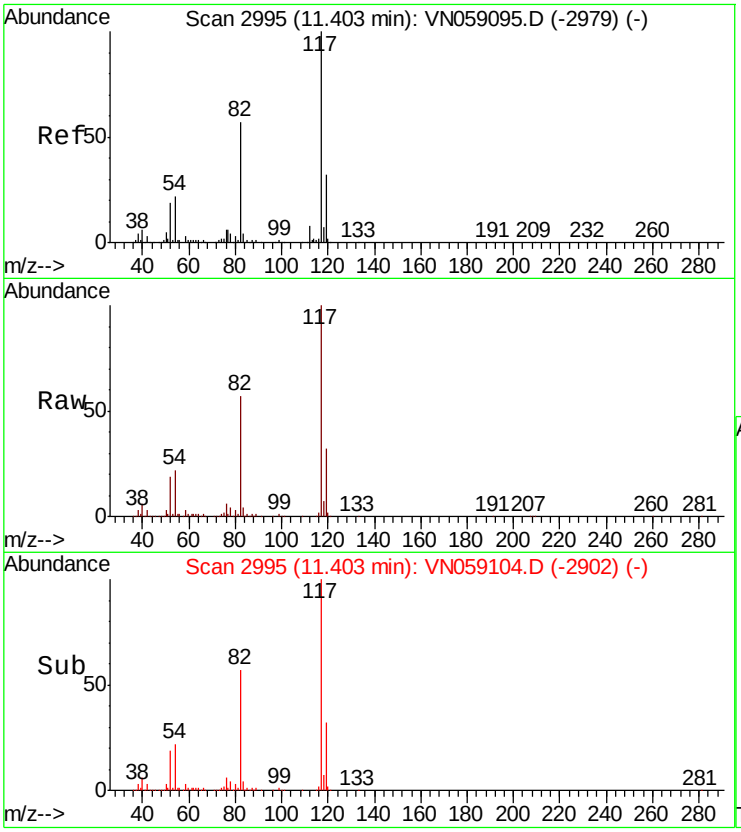


#62
4-Bromofluorobenzene
Concen: 45.901 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN059104.D
Acq: 6 Nov 2019 13:56

Tgt Ion: 95 Resp: 267036

Ion	Ratio	Lower	Upper
95	100		
174	78.4	0.0	158.2
176	75.1	0.0	151.8



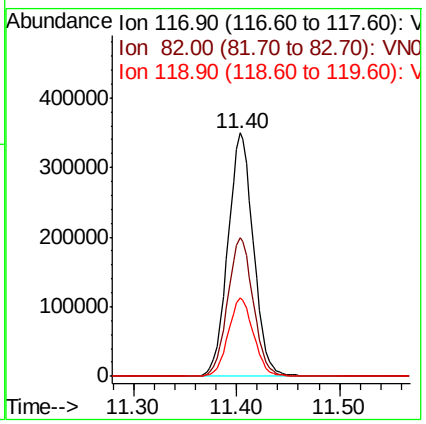


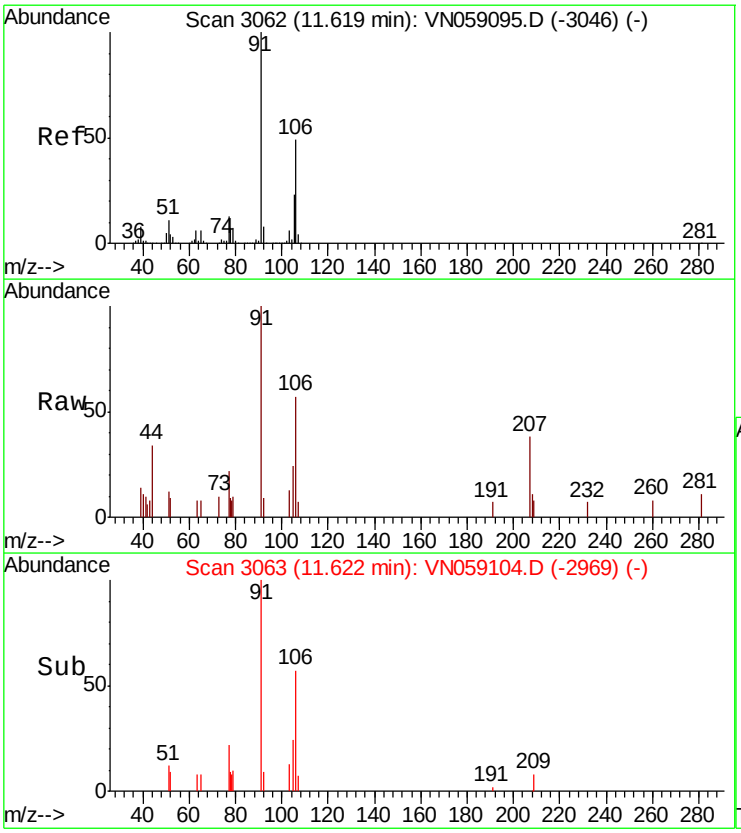
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2995
Delta R.T. -0.00 min
Lab File: VN059104.D
Acq: 6 Nov 2019 13:56

Instrument : MSVOA_N
ClientSampleId : OR-02-110519

Tgt Ion:117 Resp: 602171

Ion	Ratio	Lower	Upper
117	100		
82	56.9	45.8	68.8
119	32.1	25.8	38.6

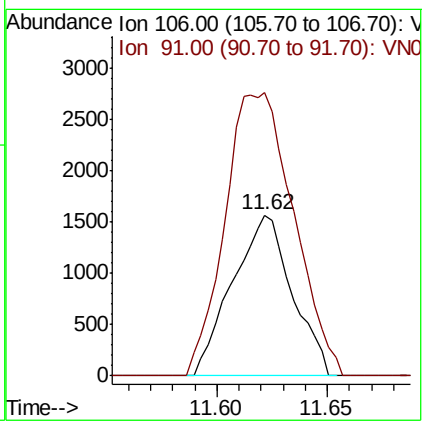


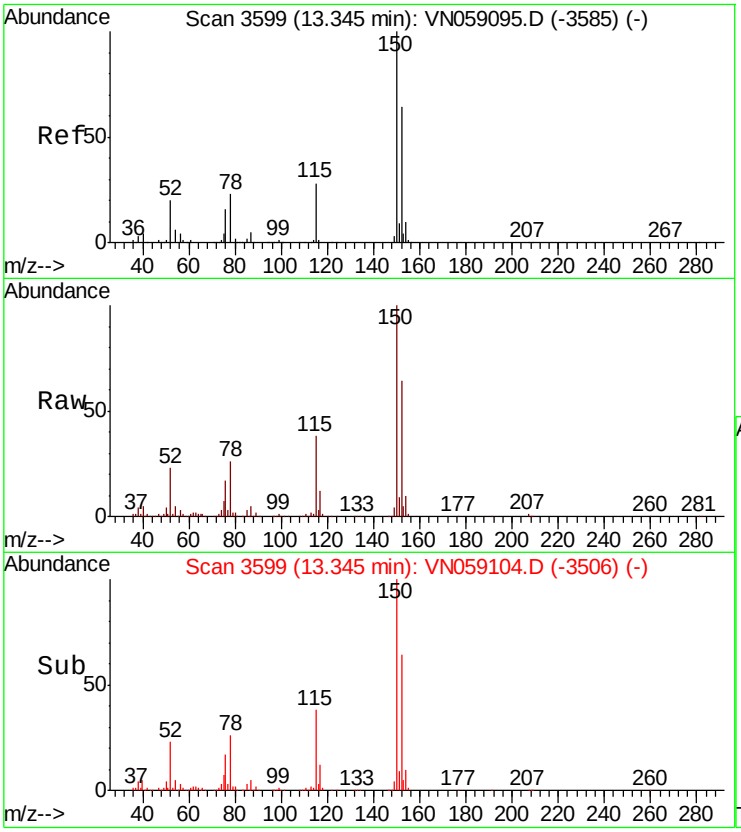


#68
m/p-Xylenes
Concen: 0.377 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN059104.D
Acq: 6 Nov 2019 13:56

Tgt Ion:106 Resp: 2940

Ion	Ratio	Lower	Upper
106	100		
91	203.1	164.7	247.1



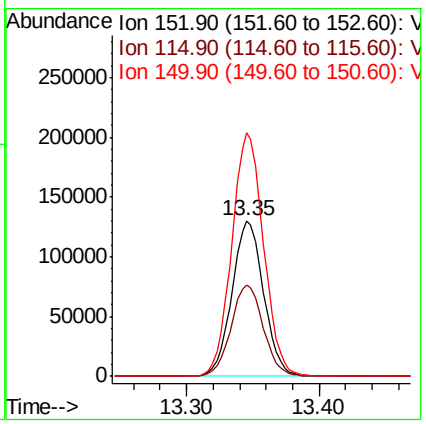


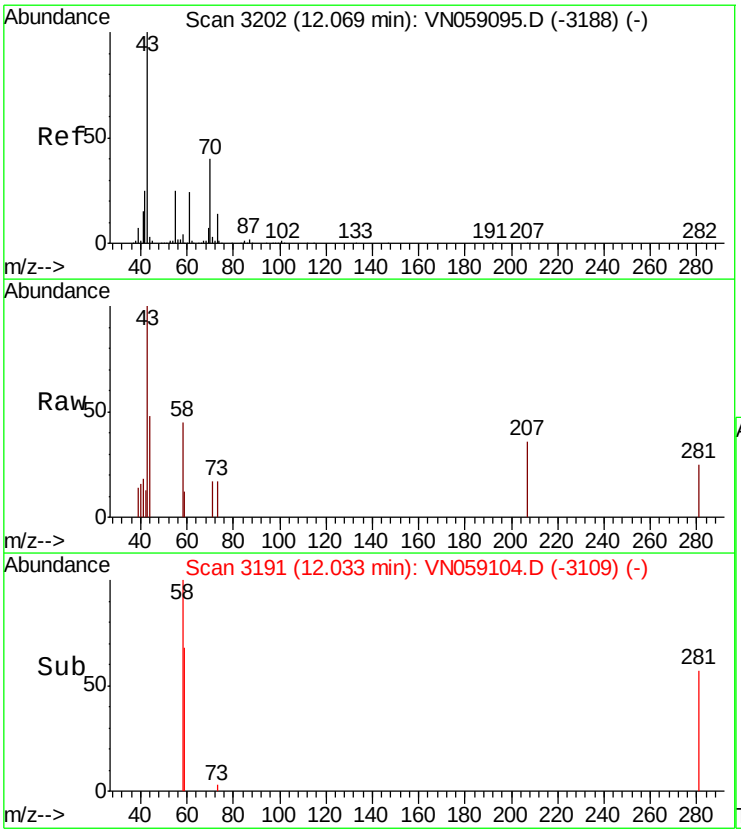
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. -0.00 min
Lab File: VN059104.D
Acq: 6 Nov 2019 13:56

Instrument : MSVOA_N
ClientSampleId : OR-02-110519

Tgt Ion:152 Resp: 215359

Ion	Ratio	Lower	Upper
152	100		
115	59.5	29.4	88.2
150	157.0	0.0	345.8

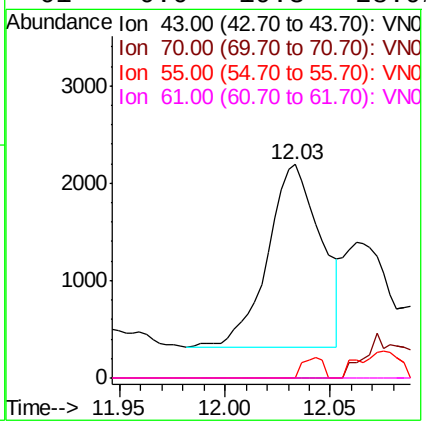


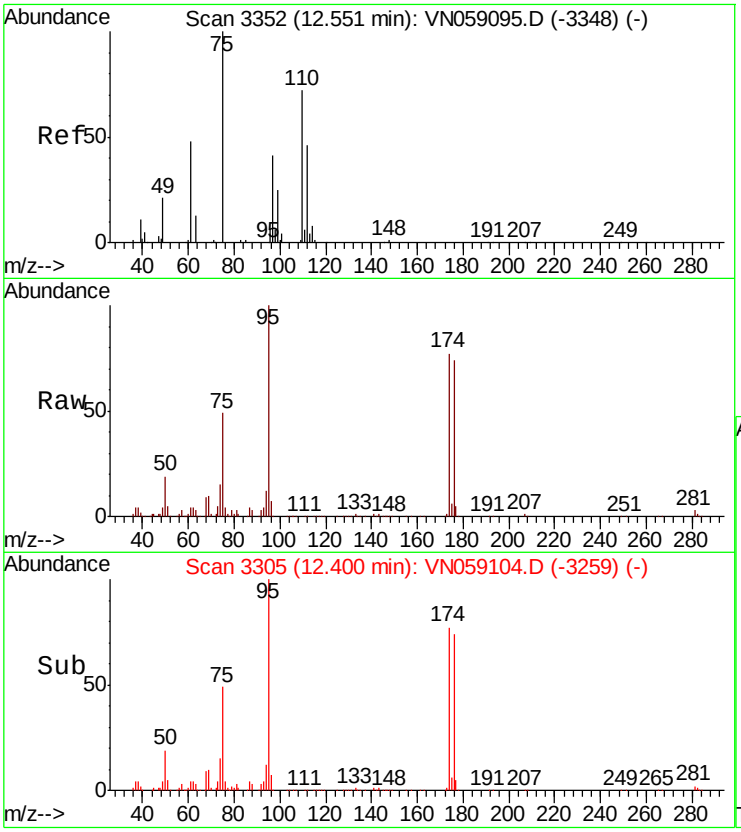


#74
N-amyl acetate
Concen: 0.501 ug/l
RT: 12.03 min Scan# 3191
Delta R.T. -0.04 min
Lab File: VN059104.D
Acq: 6 Nov 2019 13:56

Tgt Ion: 43 Resp: 3326

Ion	Ratio	Lower	Upper
43	100		
70	0.0	32.2	48.4#
55	4.2	20.4	30.6#
61	0.0	19.3	28.9#



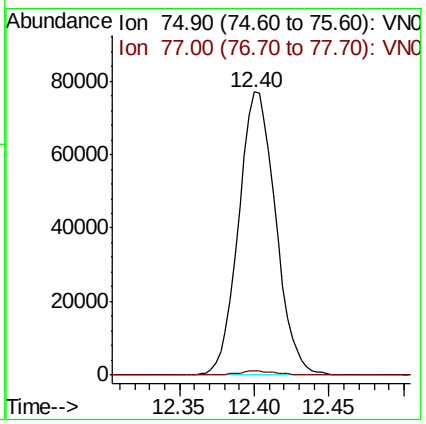


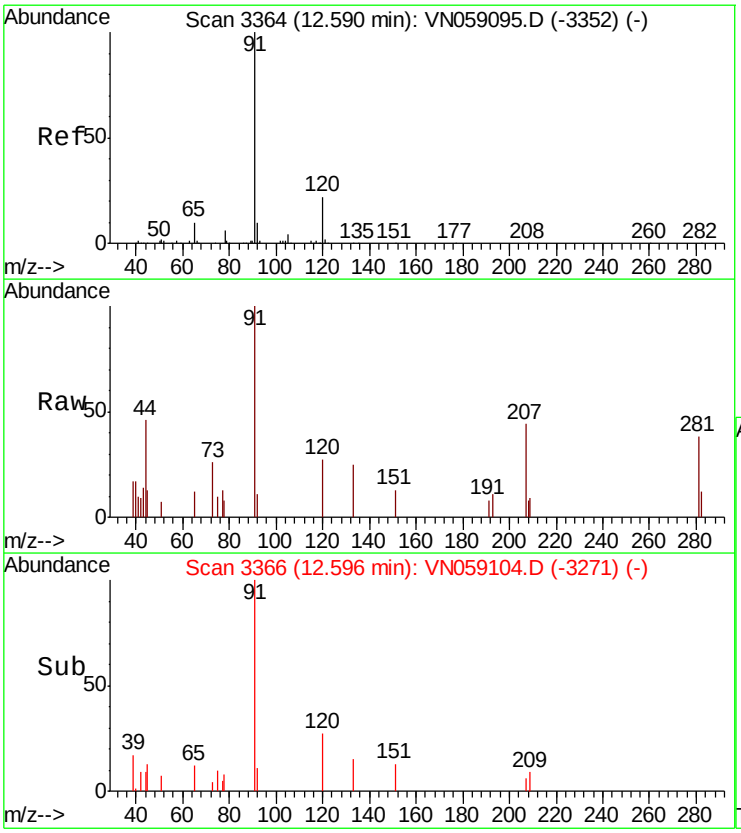
#76
1,2,3-Trichloropropane
Concen: 27.096 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.15 min
Lab File: VN059104.D
Acq: 6 Nov 2019 13:56

Instrument :
MSVOA_N
ClientSampleId :
OR-02-110519

Tgt Ion: 75 Resp: 132854

Ion	Ratio	Lower	Upper
75	100		
77	1.5	0.0	0.0#

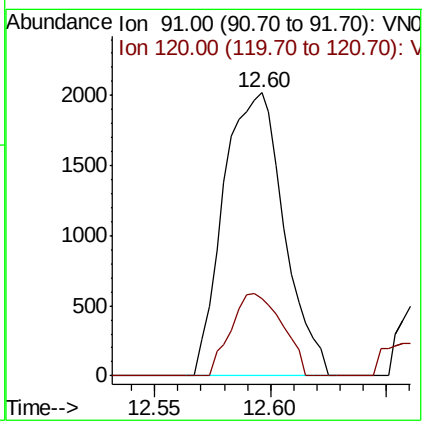


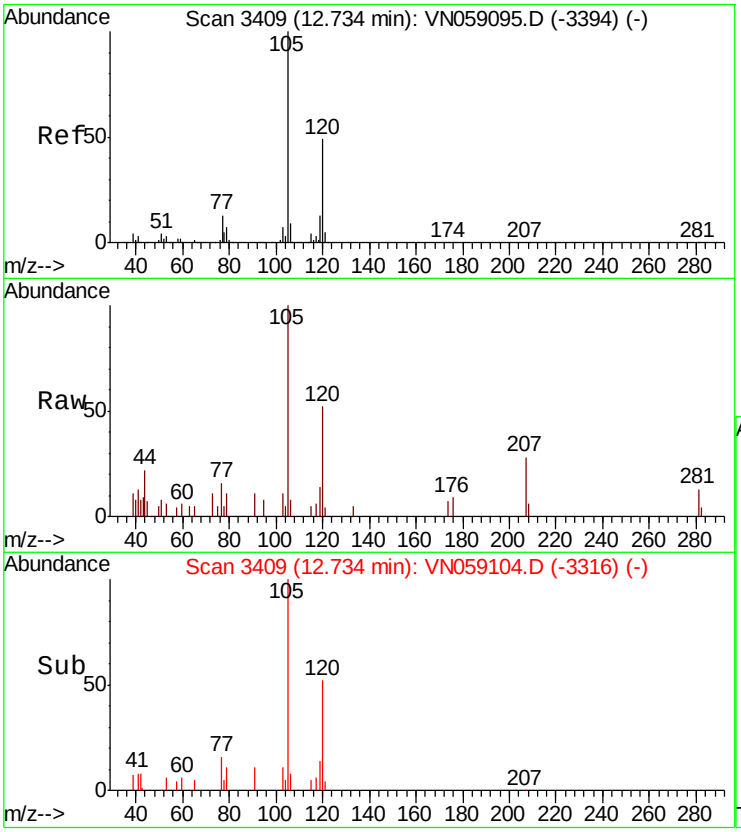


#78
n-propylbenzene
Concen: 0.204 ug/l
RT: 12.60 min Scan# 3366
Delta R.T. 0.01 min
Lab File: VN059104.D
Acq: 6 Nov 2019 13:56

Tgt Ion: 91 Resp: 3660

Ion	Ratio	Lower	Upper
91	100		
120	24.7	11.2	33.5



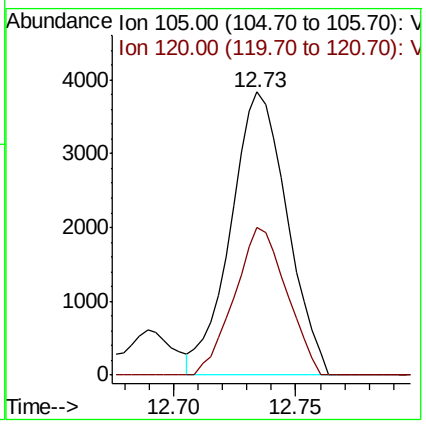


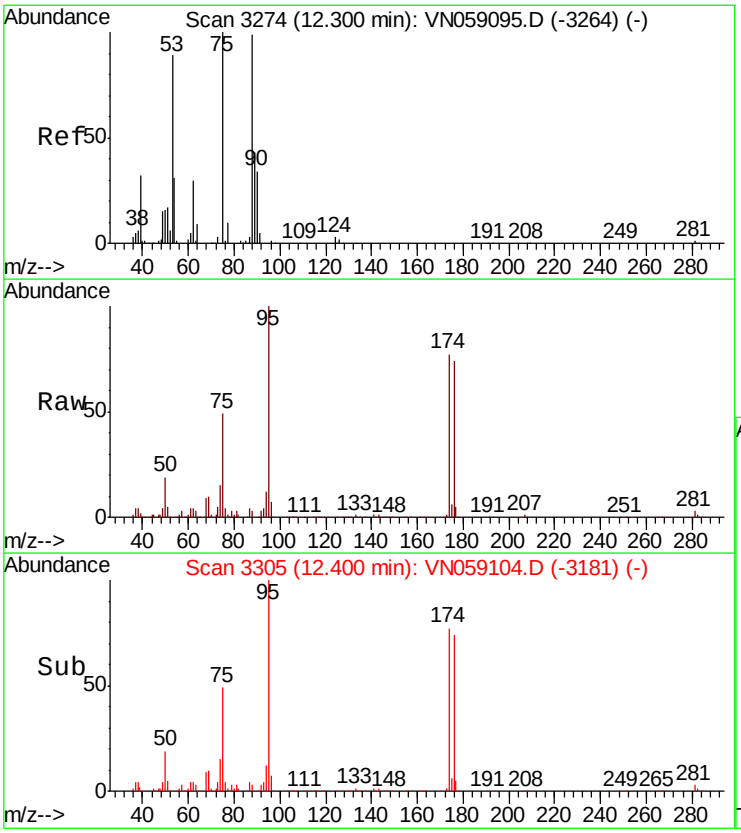
#80
1,3,5-Trimethylbenzene
Concen: 0.463 ug/l
RT: 12.73 min Scan# 3409
Delta R.T. -0.00 min
Lab File: VN059104.D
Acq: 6 Nov 2019 13:56

Instrument : MSVOA_N
ClientSampleId : OR-02-110519

Tgt Ion:105 Resp: 6146

Ion	Ratio	Lower	Upper
105	100		
120	48.1	24.0	72.0

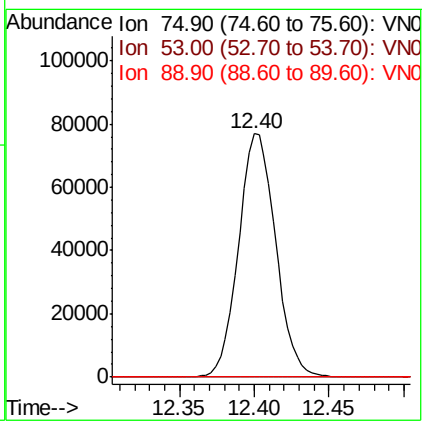


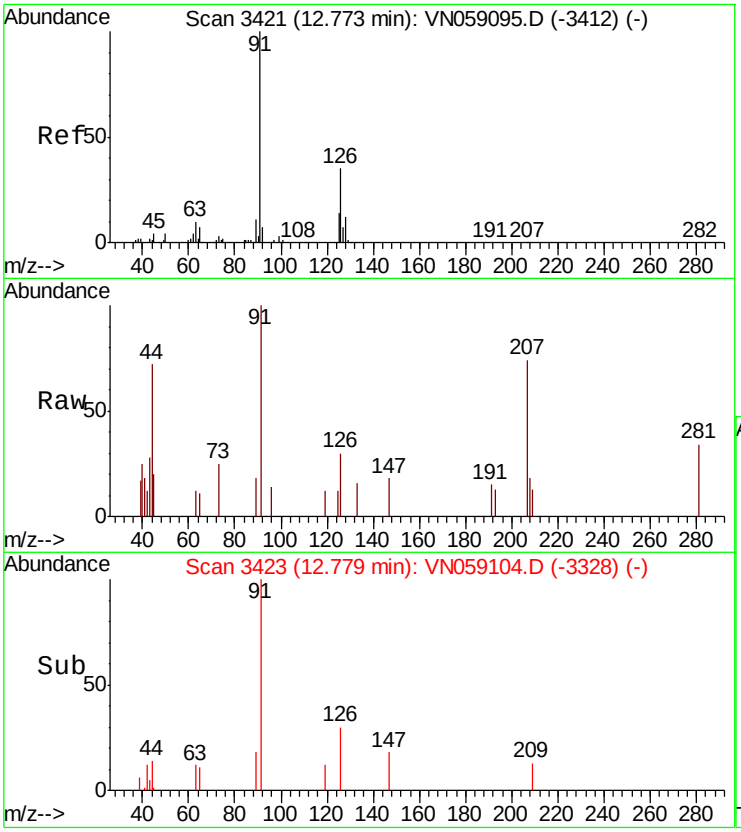


#81
trans-1,4-Dichloro-2-butene
Concen: 71.569 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.10 min
Lab File: VN059104.D
Acq: 6 Nov 2019 13:56

Tgt Ion: 75 Resp: 132854

Ion	Ratio	Lower	Upper
75	100		
53	0.0	72.2	108.2#
89	0.0	35.8	53.8#



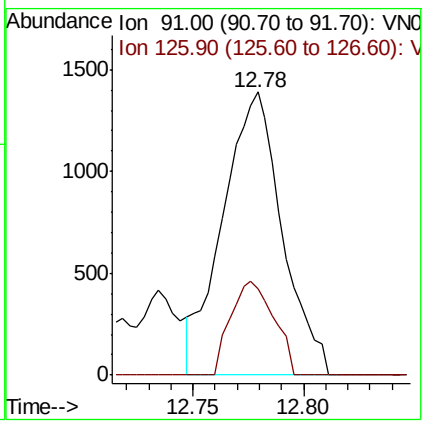


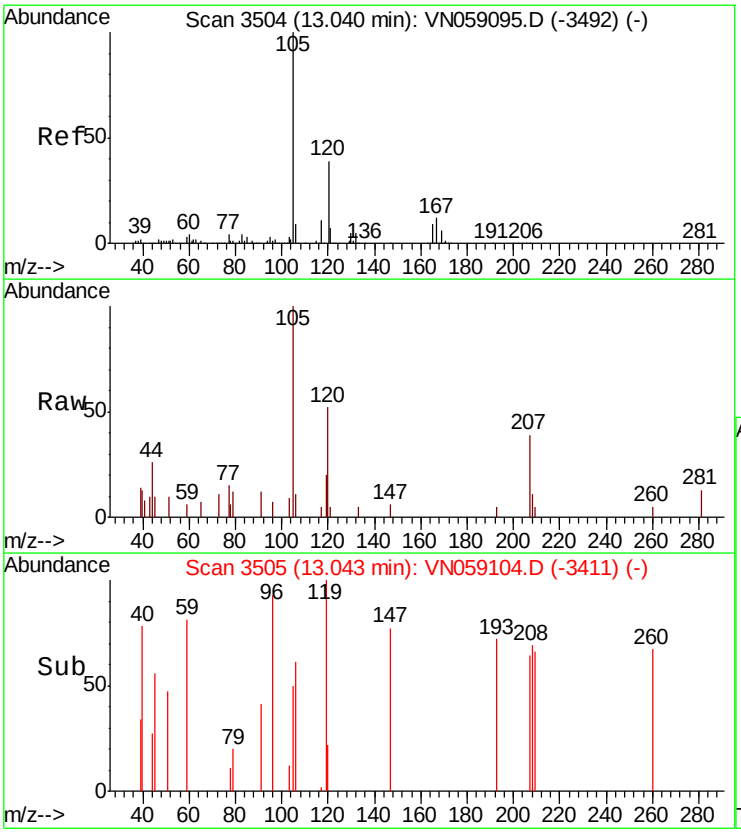
#82
4-Chlorotoluene
Concen: 0.233 ug/l
RT: 12.78 min Scan# 3423
Delta R.T. 0.01 min
Lab File: VN059104.D
Acq: 6 Nov 2019 13:56

Instrument : MSVOA_N
ClientSampleId : OR-02-110519

Tgt Ion: 91 Resp: 2596

Ion	Ratio	Lower	Upper
91	100		
126	24.0	16.1	48.2

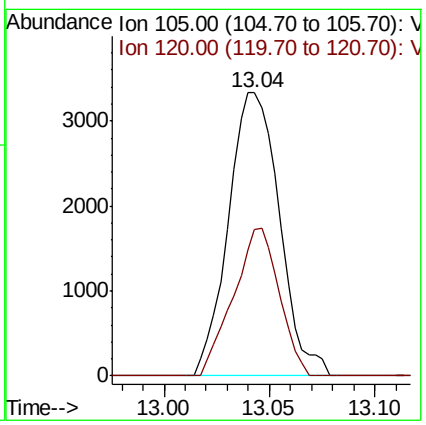


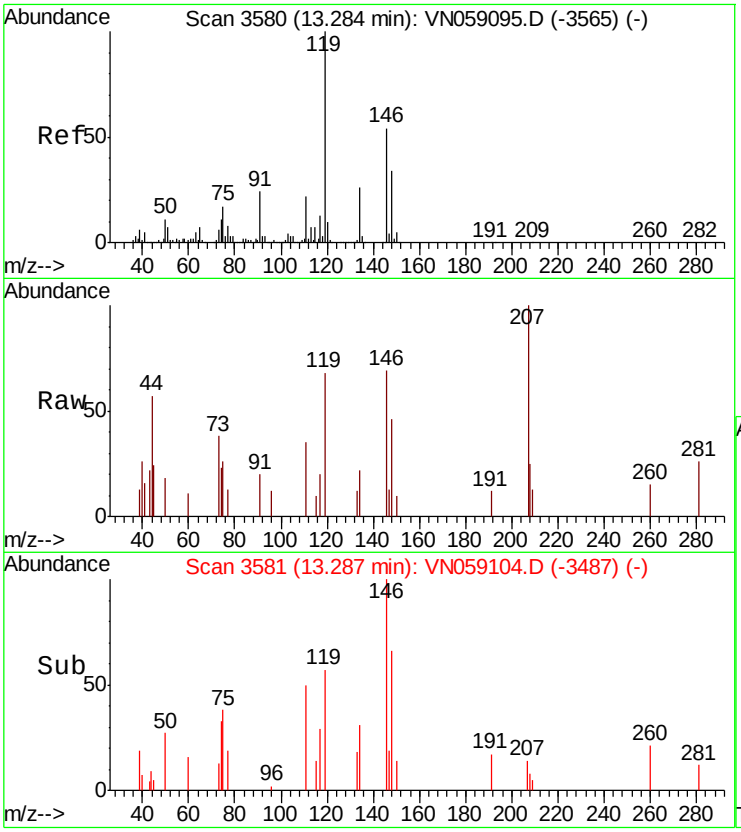


#84
1,2,4-Trimethylbenzene
Concen: 0.436 ug/l
RT: 13.04 min Scan# 3505
Delta R.T. 0.00 min
Lab File: VN059104.D
Acq: 6 Nov 2019 13:56

Tgt Ion:105 Resp: 5603

Ion	Ratio	Lower	Upper
105	100		
120	46.7	22.8	68.4



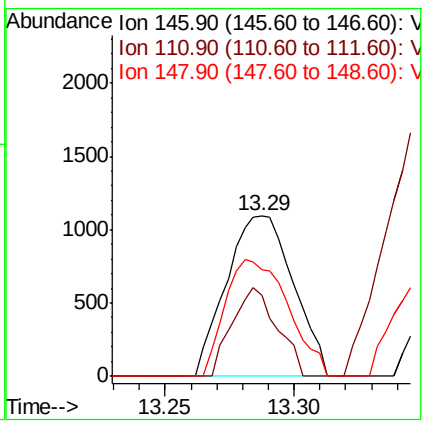


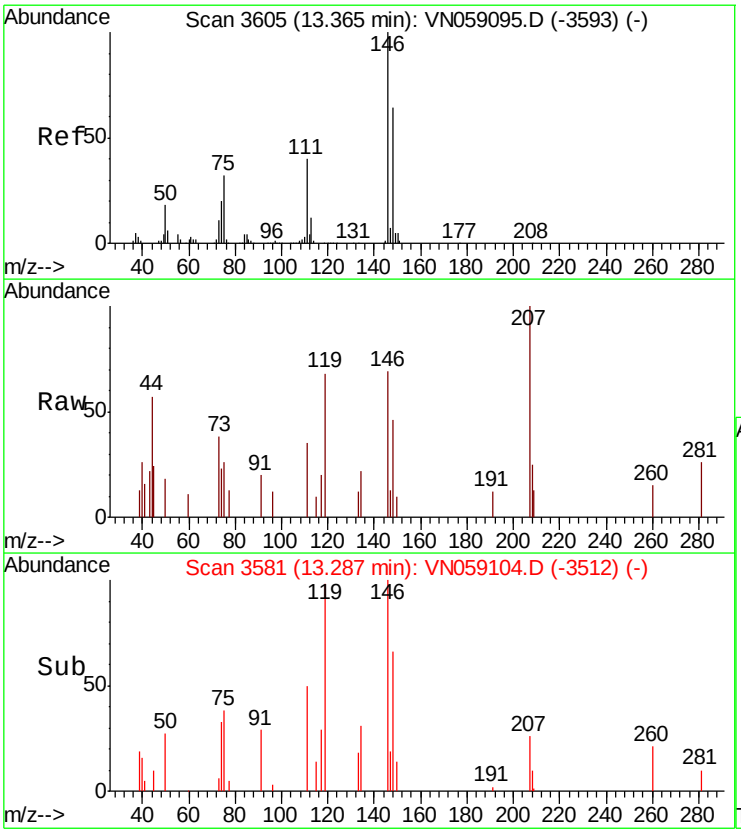
#87
1,3-Dichlorobenzene
Concen: 0.294 ug/l
RT: 13.29 min Scan# 3581
Delta R.T. 0.00 min
Lab File: VN059104.D
Acq: 6 Nov 2019 13:56

Instrument :
MSVOA_N
ClientSampleId :
OR-02-110519

Tgt Ion:146 Resp: 1979

Ion	Ratio	Lower	Upper
146	100		
111	37.1	20.4	61.3
148	68.3	32.2	96.6

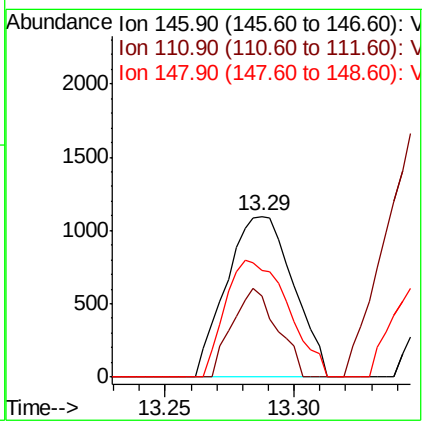


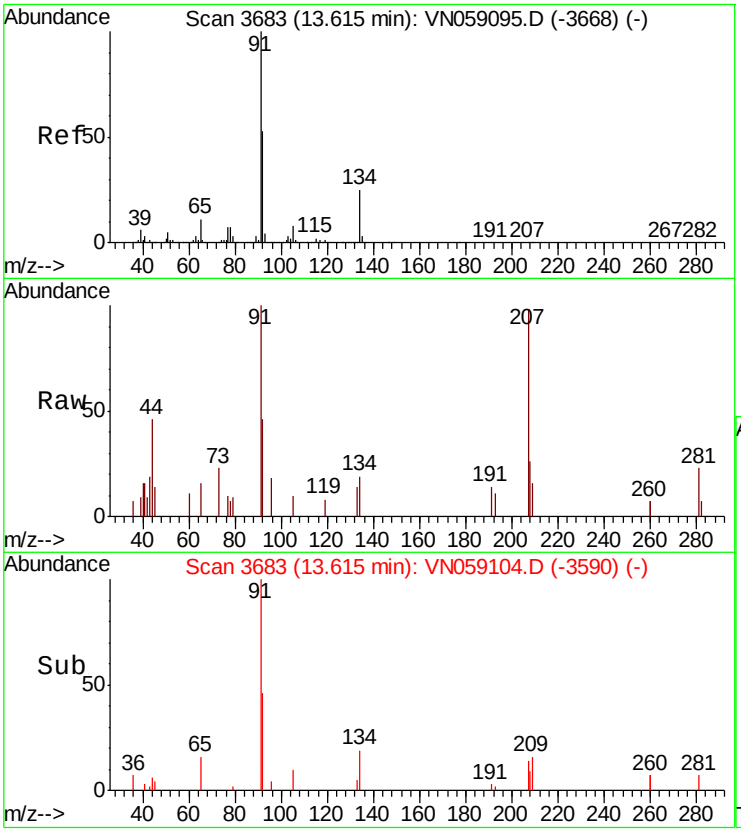


#88
1,4-Dichlorobenzene
Concen: 0.293 ug/l
RT: 13.29 min Scan# 3581
Delta R.T. -0.08 min
Lab File: VN059104.D
Acq: 6 Nov 2019 13:56

Tgt Ion:146 Resp: 1979

Ion	Ratio	Lower	Upper
146	100		
111	37.1	20.3	60.9
148	68.3	31.9	95.7



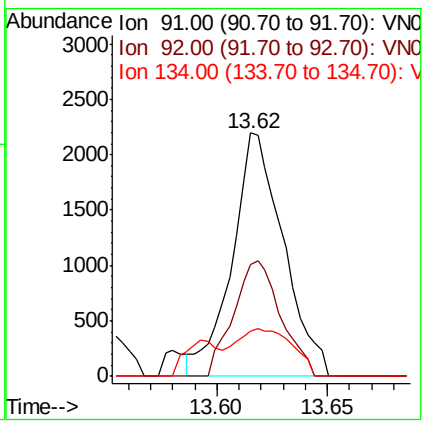


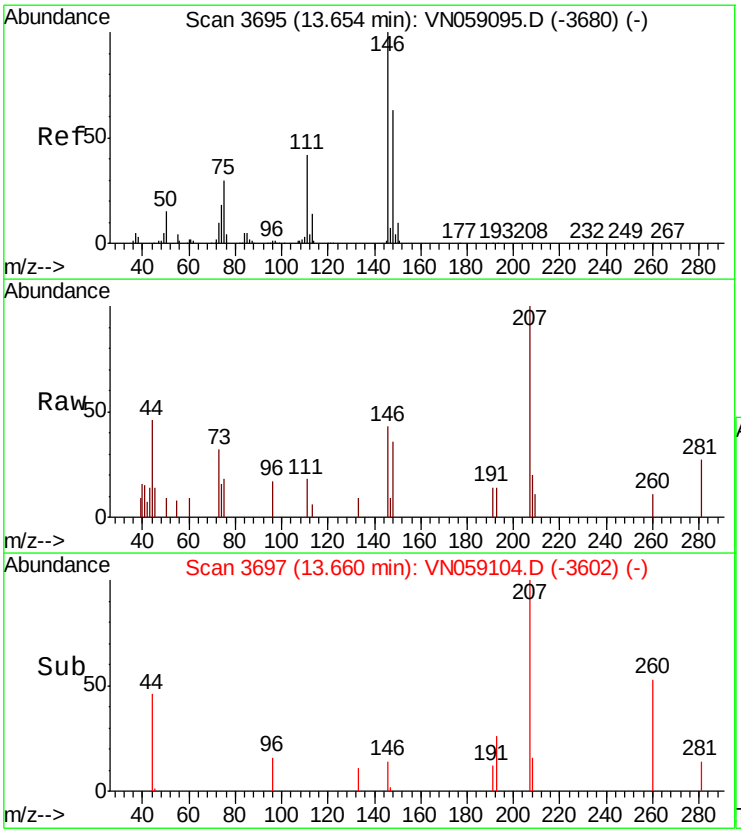
#89
n-Butylbenzene
Concen: 0.309 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. -0.00 min
Lab File: VN059104.D
Acq: 6 Nov 2019 13:56

Instrument : MSVOA_N
ClientSampleId : OR-02-110519

Tgt Ion: 91 Resp: 3558

Ion	Ratio	Lower	Upper
91	100		
92	43.8	26.1	78.3
134	21.6	12.6	37.8

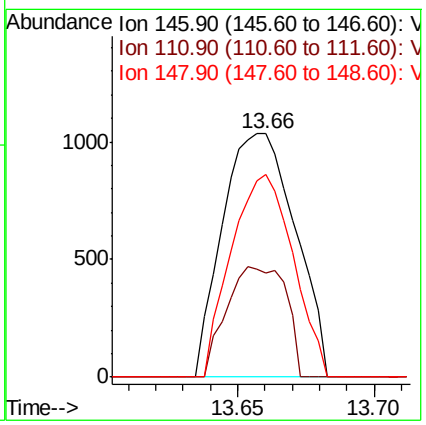


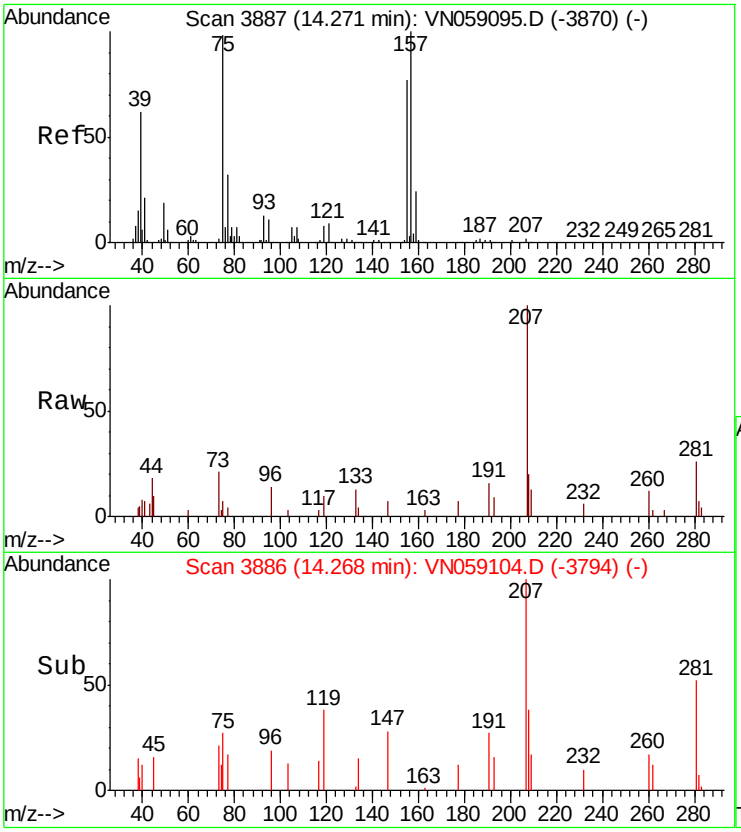


#91
1,2-Dichlorobenzene
Concen: 0.289 ug/l
RT: 13.66 min Scan# 3697
Delta R.T. 0.01 min
Lab File: VN059104.D
Acq: 6 Nov 2019 13:56

Tgt Ion:146 Resp: 1917

Ion	Ratio	Lower	Upper
146	100		
111	36.9	21.2	63.6
148	70.7	31.6	94.7



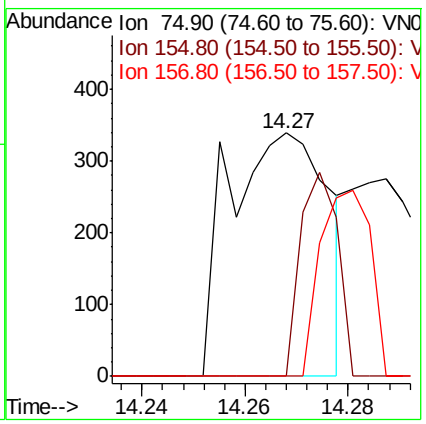


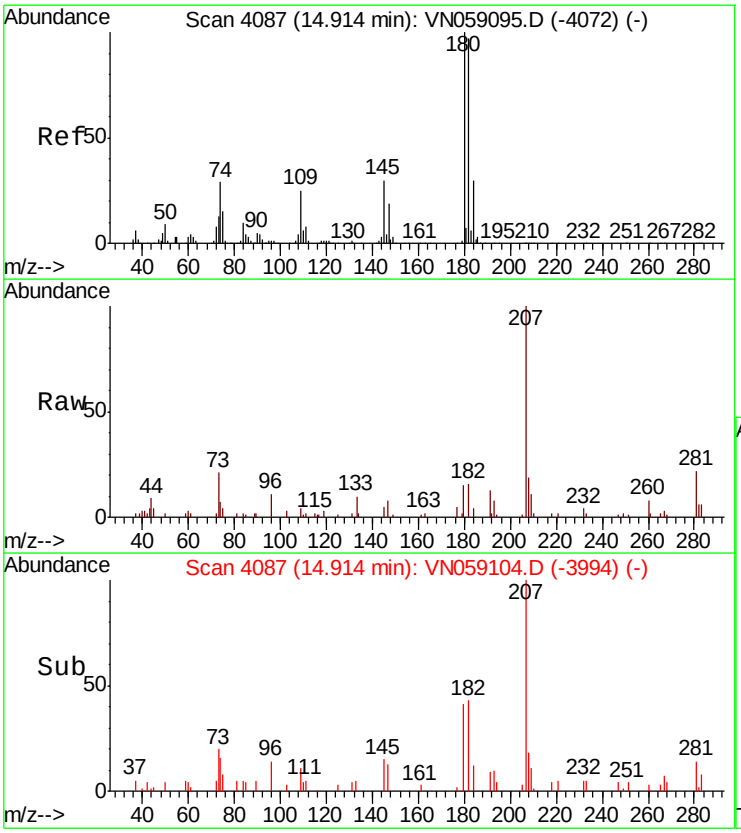
#92
1,2-Dibromo-3-Chloropropane
Concen: 0.451 ug/l
RT: 14.27 min Scan# 3886
Delta R.T. -0.00 min
Lab File: VN059104.D
Acq: 6 Nov 2019 13:56

Instrument : MSVOA_N
ClientSampleId : OR-02-110519

Tgt Ion: 75 Resp: 452

Ion	Ratio	Lower	Upper
75	100		
155	31.4	40.2	120.6#
157	38.7	51.8	155.5#

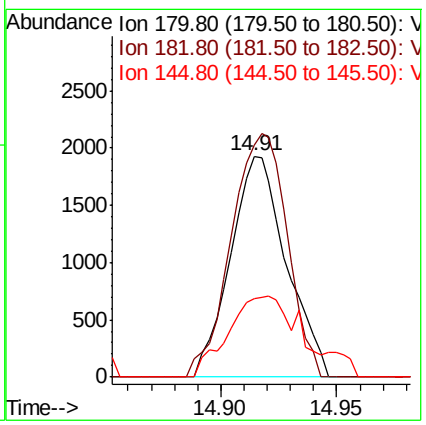


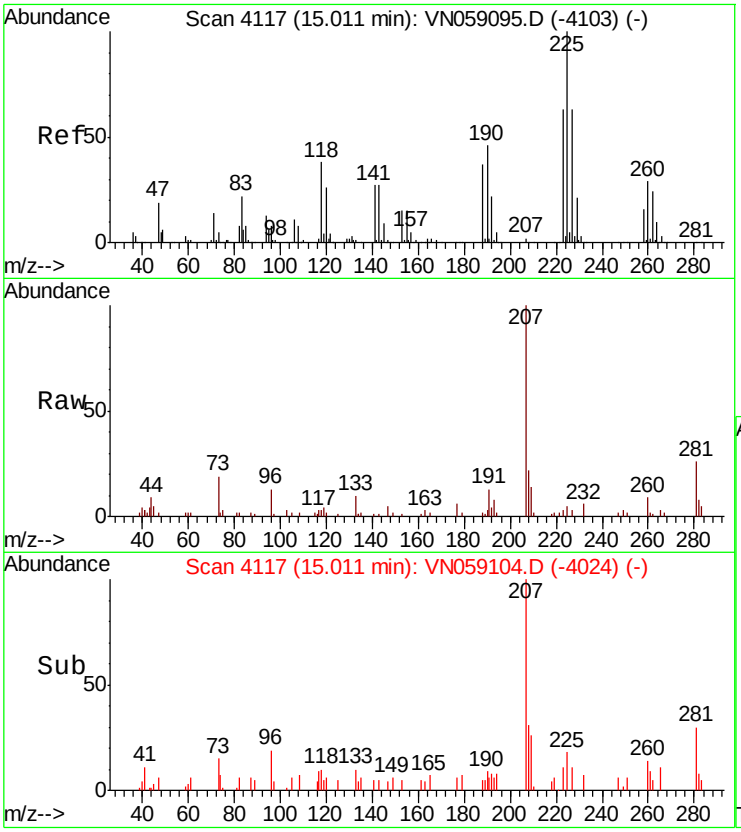


#93
1,2,4-Trichlorobenzene
Concen: 3.801 ug/l
RT: 14.91 min Scan# 4087
Delta R.T. 0.00 min
Lab File: VN059104.D
Acq: 6 Nov 2019 13:56

Tgt Ion:180 Resp: 3233

Ion	Ratio	Lower	Upper
180	100		
182	110.3	48.1	144.3
145	49.8	15.1	45.3#



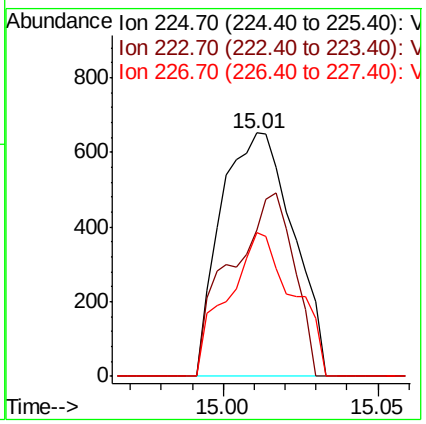


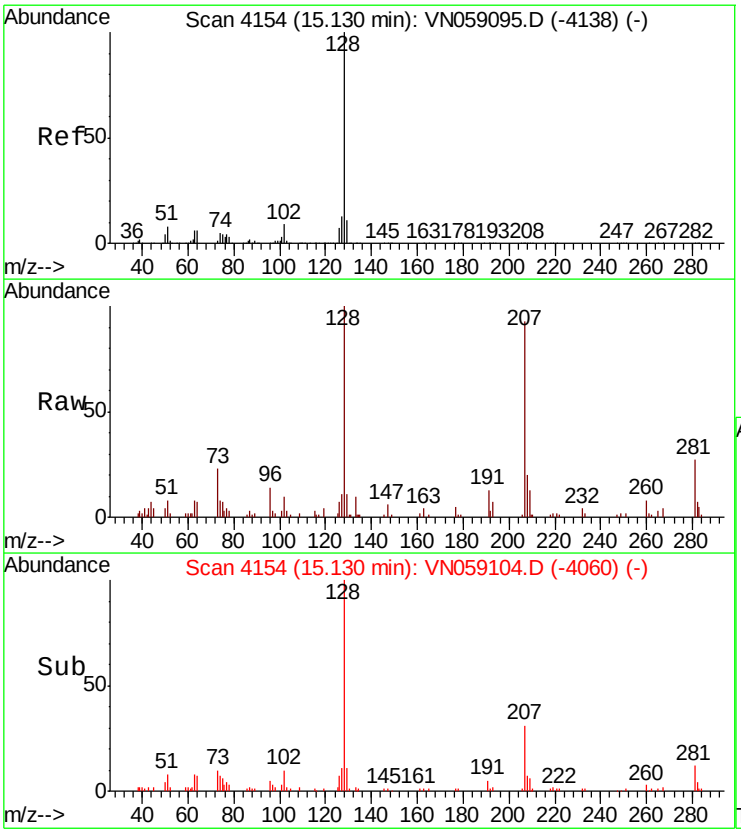
#94
Hexachlorobutadiene
Concen: 0.464 ug/l
RT: 15.01 min Scan# 4117
Delta R.T. -0.00 min
Lab File: VN059104.D
Acq: 6 Nov 2019 13:56

Instrument : MSVOA_N
ClientSampleId : OR-02-110519

Tgt Ion:225 Resp: 1060

Ion	Ratio	Lower	Upper
225	100		
223	65.8	31.3	93.9
227	53.9	31.5	94.5

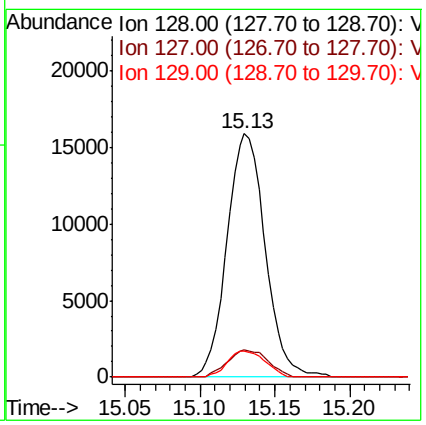


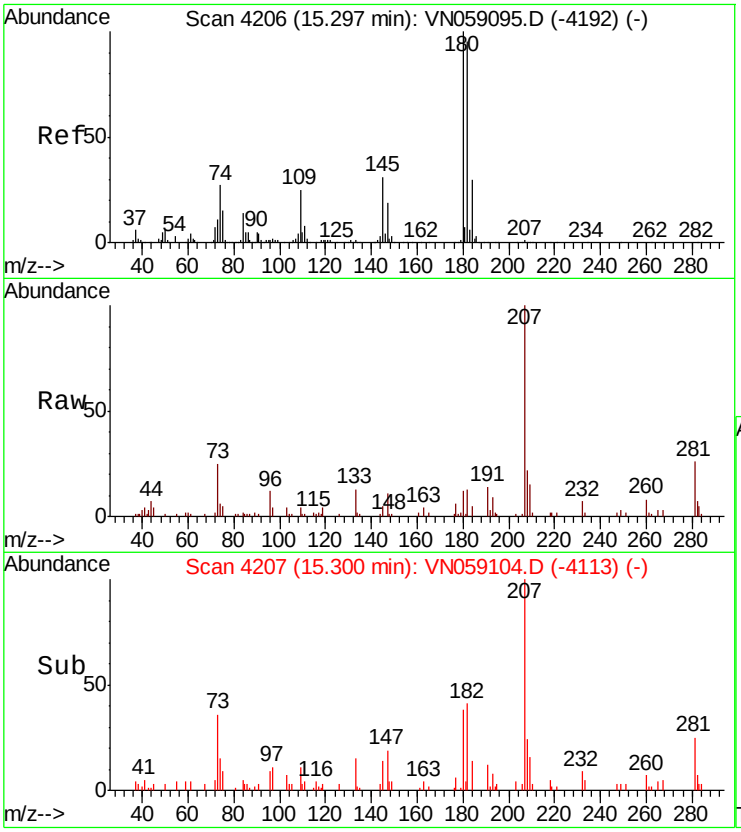


#95
Naphthalene
Concen: 5.424 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. 0.00 min
Lab File: VN059104.D
Acq: 6 Nov 2019 13:56

Tgt Ion:128 Resp: 28277

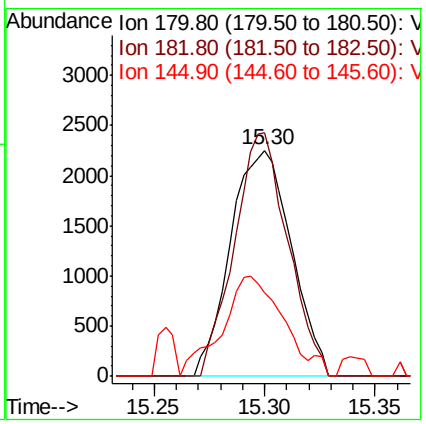
Ion	Ratio	Lower	Upper
128	100		
127	11.8	10.2	15.2
129	10.5	8.6	12.8





#96
1,2,3-Trichlorobenzene
Concen: 1.158 ug/l
RT: 15.30 min Scan# 4207
Delta R.T. 0.00 min
Lab File: VN059104.D
Acq: 6 Nov 2019 13:56

Instrument :
MSVOA_N
ClientSampleId :
OR-02-110519

Tgt Ion:180 Resp: 4301

Ion	Ratio	Lower	Upper
180	100		
182	95.0	47.3	141.8
145	45.2	15.8	47.3