

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN050620\
 Data File : VN061316.D
 Acq On : 6 May 2020 17:45
 Operator : JC/MD
 Sample : L2515-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: May 07 03:12:44 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N042720W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 05 07:01:08 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	91964	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	167627	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	169636	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	73534	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	77629	53.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.70%	
35) Dibromofluoromethane	7.55	113	51292	51.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.50%	
50) Toluene-d8	10.06	98	216394	53.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.10%	
62) 4-Bromofluorobenzene	12.38	95	81993	53.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.84%	

Target Compounds

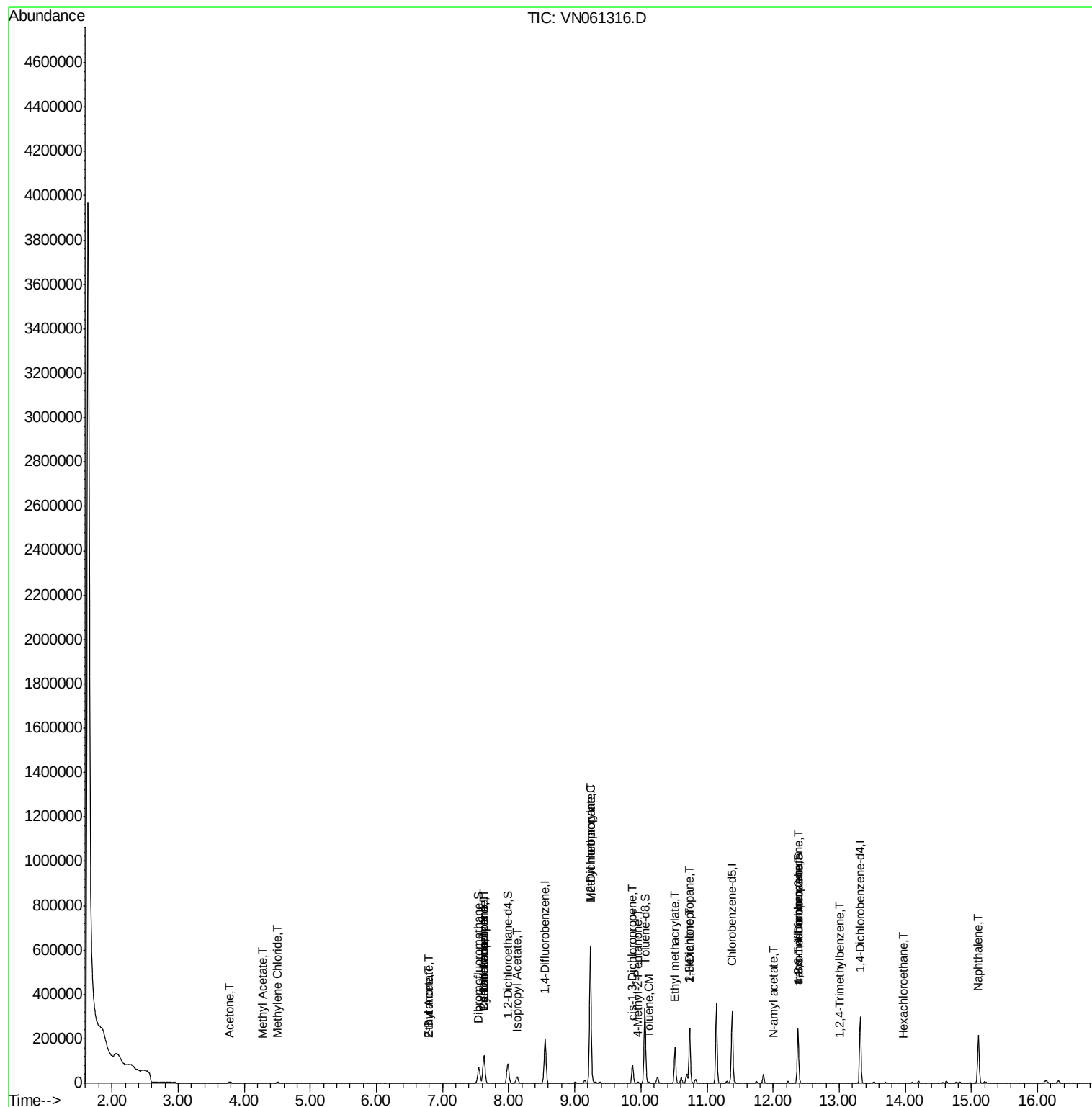
						Qvalue
16) Acetone	3.78	43	8772	10.290	ug/l	99
18) Methyl Acetate	4.28	43	1125	1.283	ug/l #	55
20) Methylene Chloride	4.51	84	2356	2.076	ug/l	96
25) 2-Butanone	6.80	43	1482	1.721	ug/l #	53
31) Cyclohexane	7.63	56	2338	1.104	ug/l #	9
36) 1,1-Dichloropropene	7.63	75	8542	5.091	ug/l #	49
37) Ethyl Acetate	6.80	43	1482	0.753	ug/l #	71
38) Carbon Tetrachloride	7.63	117	9659	8.307	ug/l #	17
43) Isopropyl Acetate	8.13	43	35562	10.893	ug/l #	91
45) 1,2-Dichloropropane	9.24	63	559	0.419	ug/l #	44
48) Methyl methacrylate	9.24	41	60252	40.897	ug/l #	48
51) 4-Methyl-2-Pentanone	9.95	43	4296	2.236	ug/l	90
52) Toluene	10.12	92	1547	0.514	ug/l	99
54) cis-1,3-Dichloropropene	9.87	75	13177	6.232	ug/l #	63
56) Ethyl methacrylate	10.52	69	395	2.905	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	2231	1.057	ug/l #	43
59) 2-Hexanone	10.74	43	38773	27.733	ug/l #	53
74) N-amyl acetate	12.00	43	1500	0.548	ug/l #	46
76) 1,2,3-Trichloropropane	12.38	75	45544	29.378	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	45544	74.604	ug/l #	8
84) 1,2,4-Trimethylbenzene	13.01	105	1016	0.220	ug/l	95
90) Hexachloroethane	13.97	117	340	8.222	ug/l #	14
95) Naphthalene	15.10	128	170613	39.056	ug/l	99

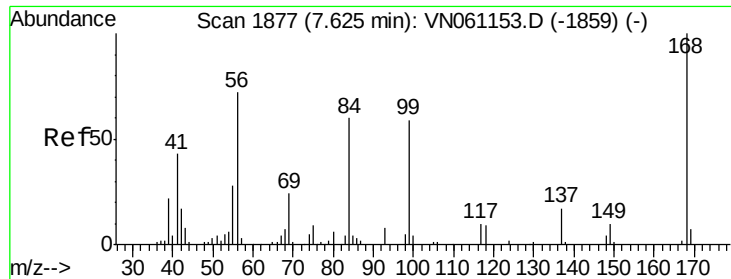
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: May 07 03:12:44 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N042720W.M
Quant Title : SW846 8260
QLast Update : Tue May 05 07:01:08 2020
Response via : Initial Calibration

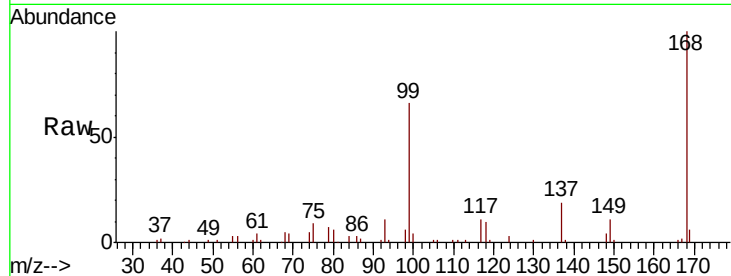




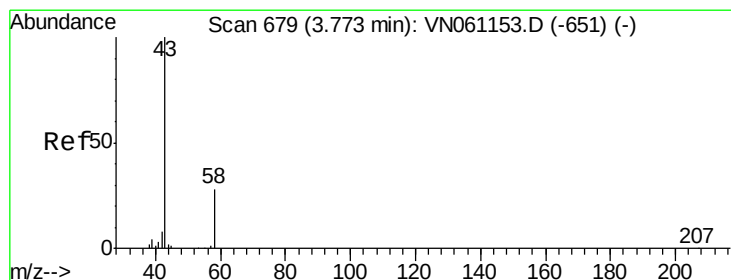
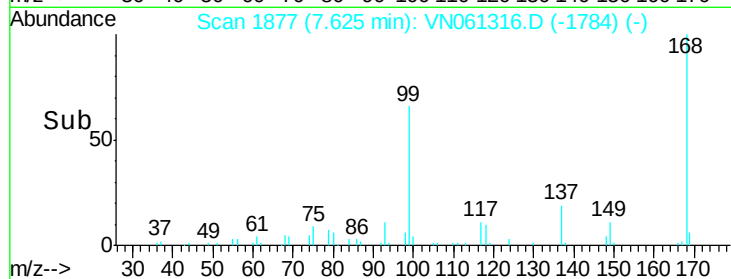
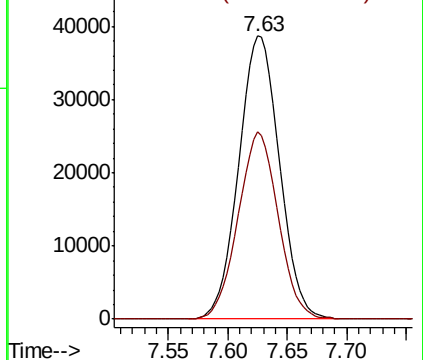
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.63 min Scan# 1877
Delta R.T. 0.00 min
Lab File: VN061316.D
Acq: 6 May 2020 17:45

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 91964
Ion Ratio Lower Upper
168 100
99 66.2 51.2 76.8

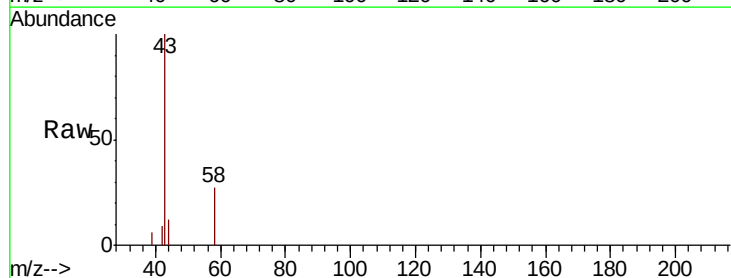


Abundance Ion 167.90 (167.60 to 168.60): V
Ion 98.90 (98.60 to 99.60): VN

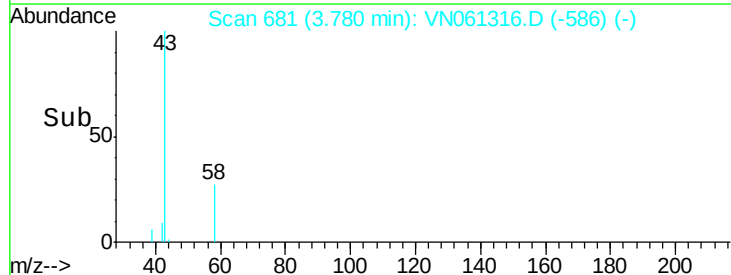
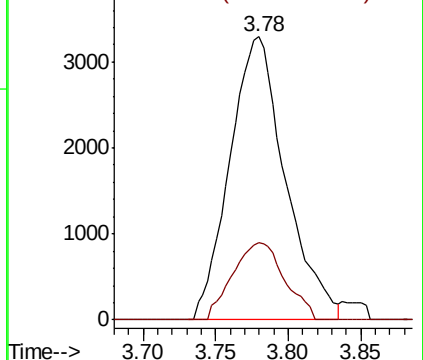


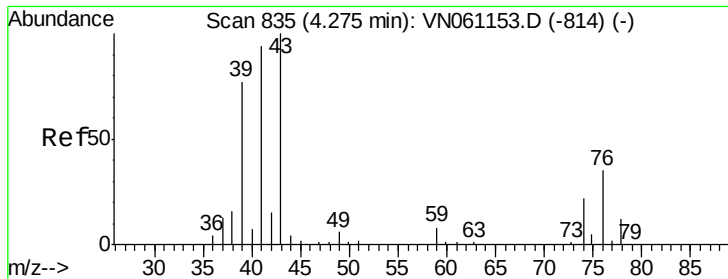
#16
Acetone
Concen: 10.290 ug/l
RT: 3.78 min Scan# 681
Delta R.T. 0.01 min
Lab File: VN061316.D
Acq: 6 May 2020 17:45

Tgt Ion: 43 Resp: 8772
Ion Ratio Lower Upper
43 100
58 27.1 22.2 33.2



Abundance Ion 43.00 (42.70 to 43.70): VN
Ion 58.00 (57.70 to 58.70): VN

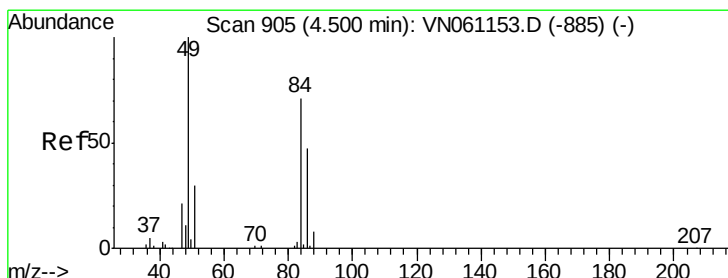
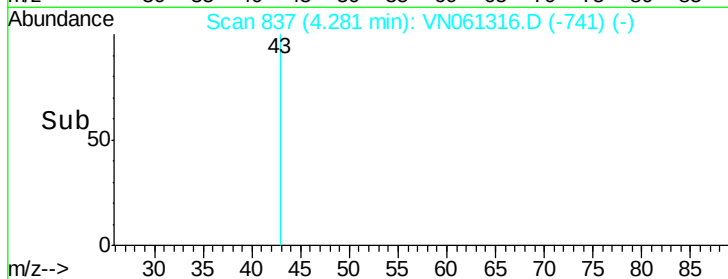
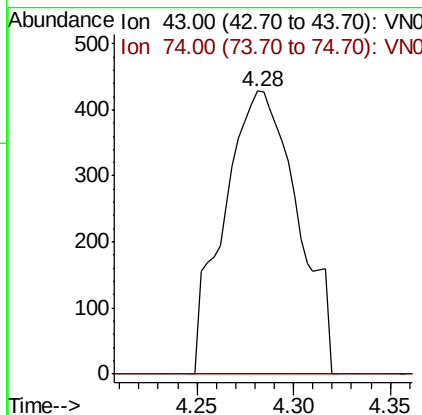
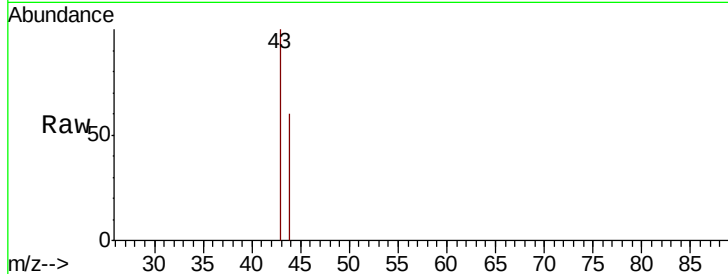




#18
Methvl Acetate
Concen: 1.283 ug/l
RT: 4.28 min Scan# 837
Delta R.T. 0.01 min
Lab File: VN061316.D
Acq: 6 May 2020 17:45

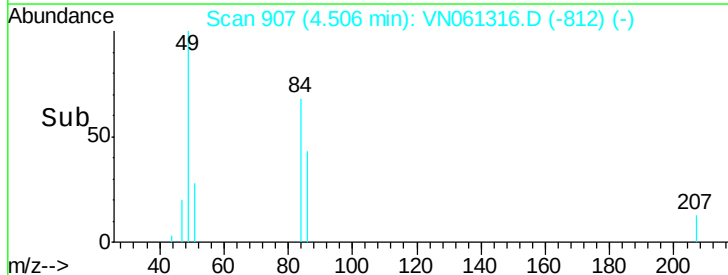
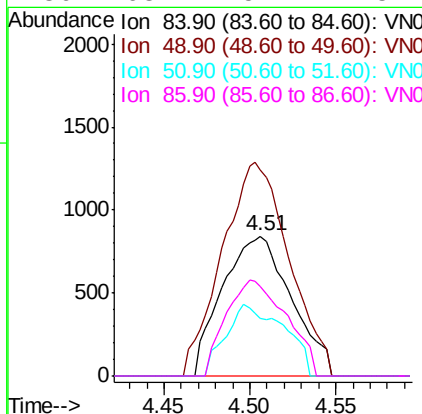
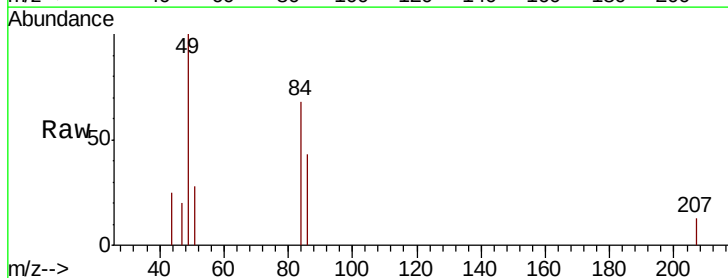
Instrument :
MSVOA_N
ClientSampleId :

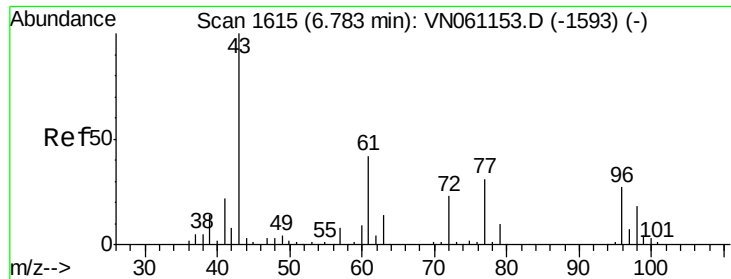
Tot Ion: 43 Resp: 1125
Ion Ratio Lower Upper
43 100
74 0.0 17.0 25.4#



#20
Methylene Chloride
Concen: 2.076 ug/l
RT: 4.51 min Scan# 907
Delta R.T. 0.01 min
Lab File: VN061316.D
Acq: 6 May 2020 17:45

Tgt Ion: 84 Resp: 2356
Ion Ratio Lower Upper
84 100
49 147.4 112.0 168.0
51 41.6 33.6 50.4
86 63.7 52.1 78.1

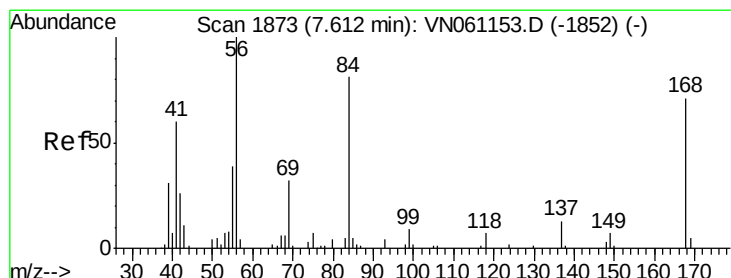
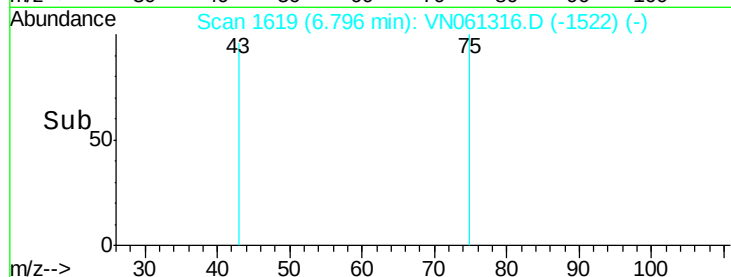
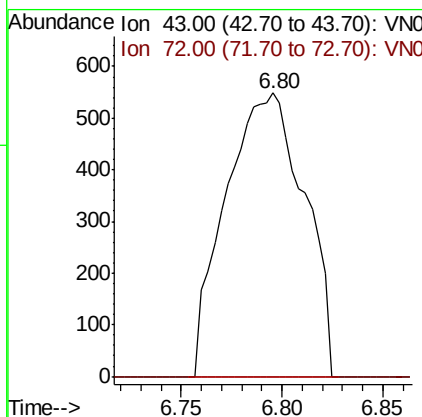
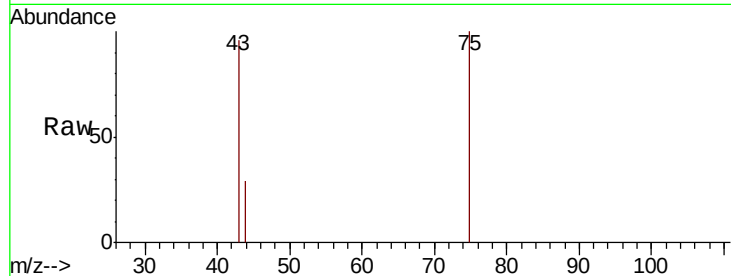




#25
2-Butanone
Concen: 1.721 ug/l
RT: 6.80 min Scan# 1619
Delta R.T. 0.01 min
Lab File: VN061316.D
Acq: 6 May 2020 17:45

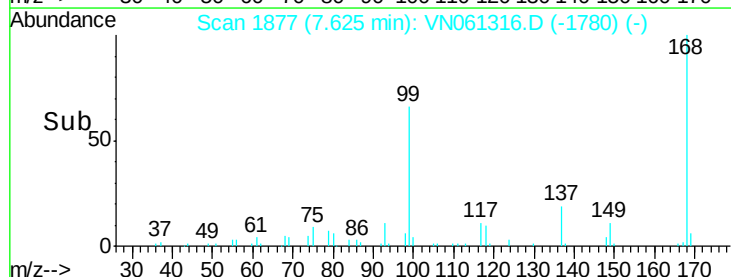
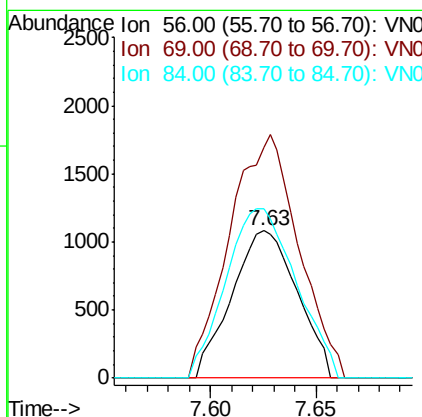
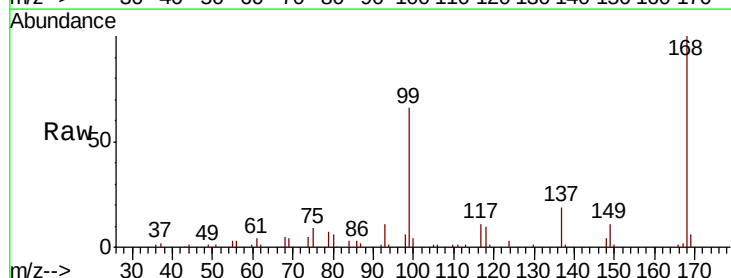
Instrument :
MSVOA_N
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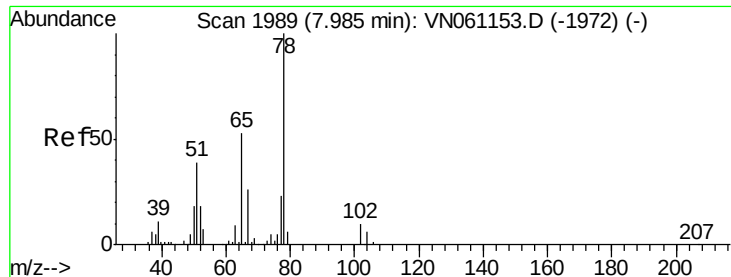
Tot Ion: 43 Resp: 1482
Ion Ratio Lower Upper
43 100
72 0.0 18.2 27.4#



#31
Cyclohexane
Concen: 1.104 ug/l
RT: 7.63 min Scan# 1877
Delta R.T. 0.01 min
Lab File: VN061316.D
Acq: 6 May 2020 17:45

Tgt Ion: 56 Resp: 2338
Ion Ratio Lower Upper
56 100
69 156.7 25.7 38.5#
84 114.9 64.6 97.0#

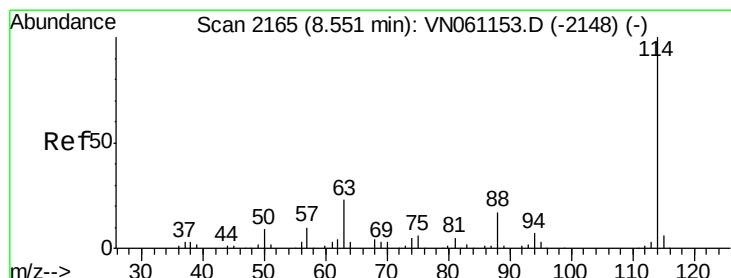
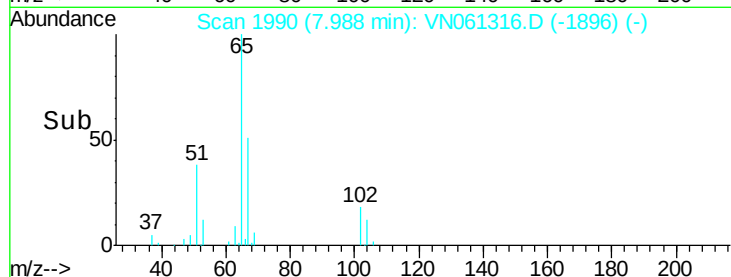
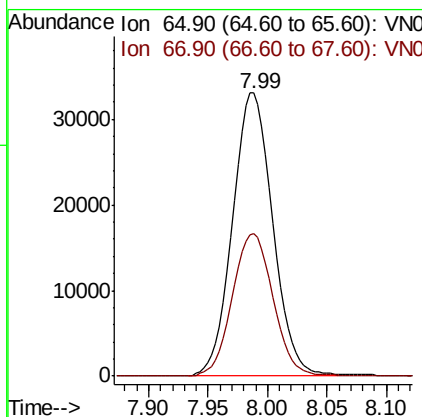
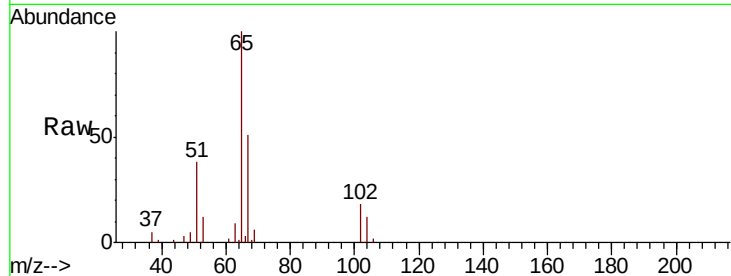




#33
 1,2-Dichloroethane-d4
 Concen: 53.348 ug/l
 RT: 7.99 min Scan# 1990
 Delta R.T. 0.00 min
 Lab File: VN061316.D
 Acq: 6 May 2020 17:45

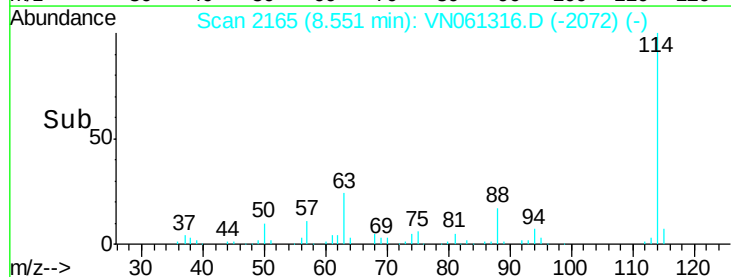
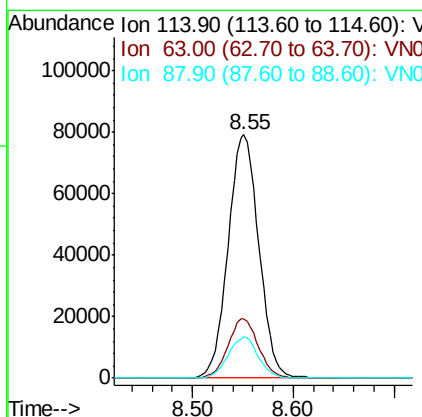
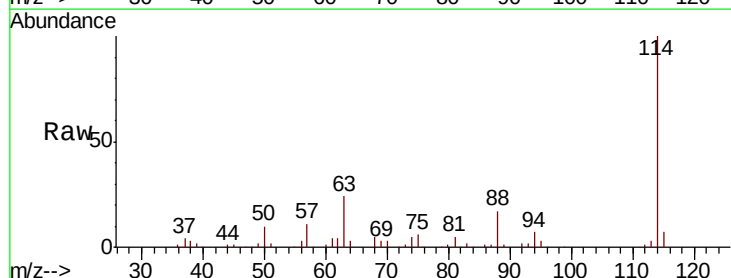
Instrument :
 MSVOA_N
 ClientSampleId :

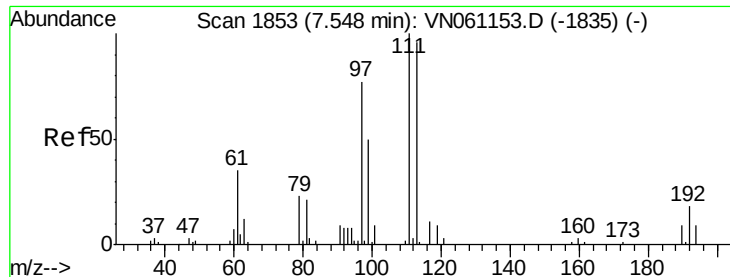
Tot Ion: 65 Resp: 77629
 Ion Ratio Lower Upper
 65 100
 67 50.9 0.0 101.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2165
 Delta R.T. 0.00 min
 Lab File: VN061316.D
 Acq: 6 May 2020 17:45

Tgt Ion: 114 Resp: 167627
 Ion Ratio Lower Upper
 114 100
 63 24.5 0.0 46.6
 88 16.8 0.0 33.4

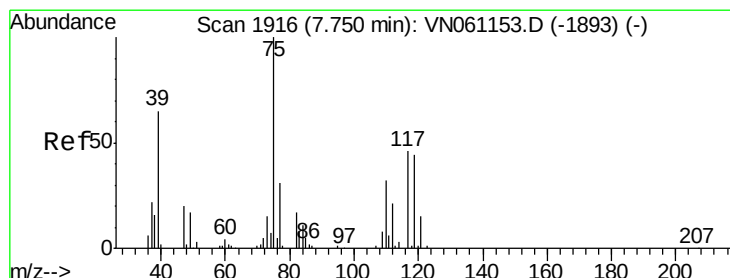
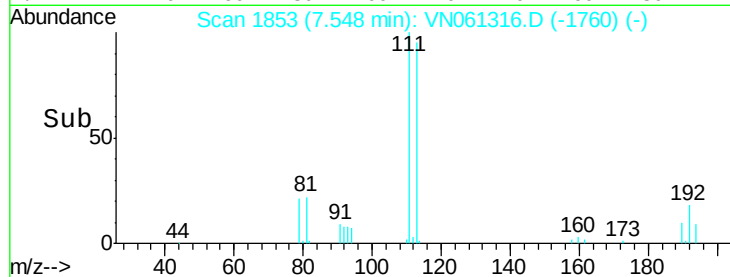
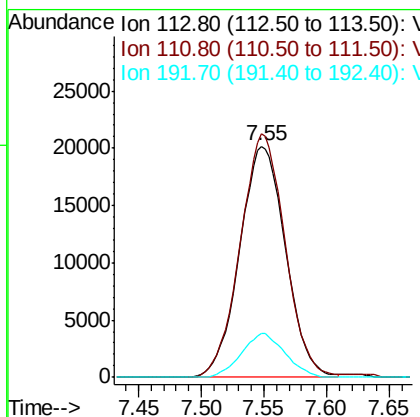
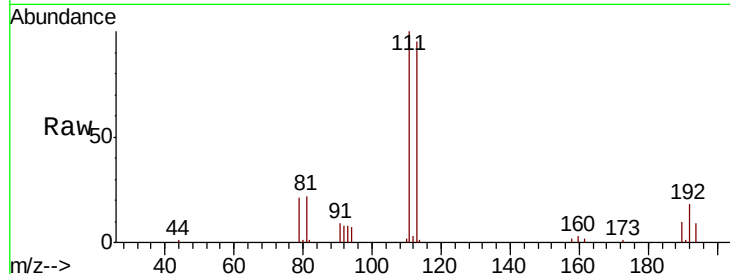




#35
 Dibromofluoromethane
 Concen: 51.746 ug/l
 RT: 7.55 min Scan# 1853
 Delta R.T. 0.00 min
 Lab File: VN061316.D
 Acq: 6 May 2020 17:45

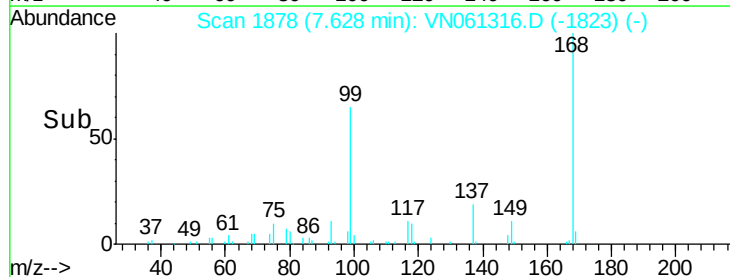
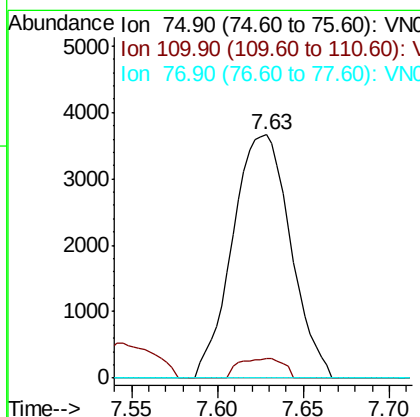
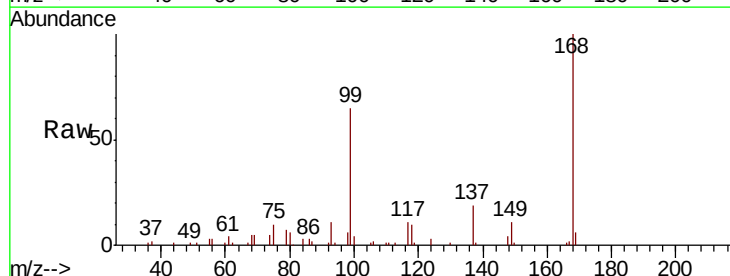
Instrument :
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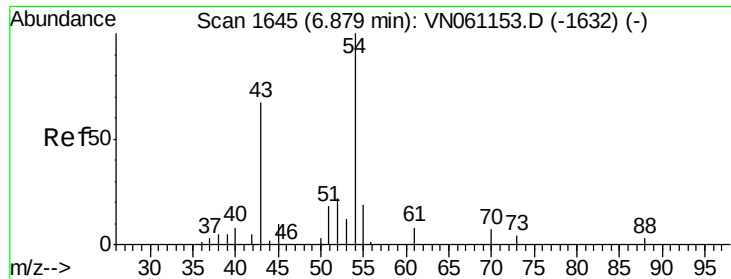
Tot Ion:113 Resp: 51292
 Ion Ratio Lower Upper
 113 100
 111 103.3 82.9 124.3
 192 17.9 14.7 22.1



#36
 1,1-Dichloropropene
 Concen: 5.091 ug/l
 RT: 7.63 min Scan# 1878
 Delta R.T. -0.12 min
 Lab File: VN061316.D
 Acq: 6 May 2020 17:45

Tgt Ion: 75 Resp: 8542
 Ion Ratio Lower Upper
 75 100
 110 6.1 16.0 48.0#
 77 0.0 24.6 37.0#

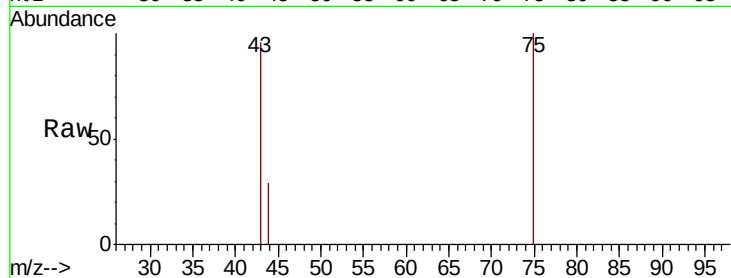




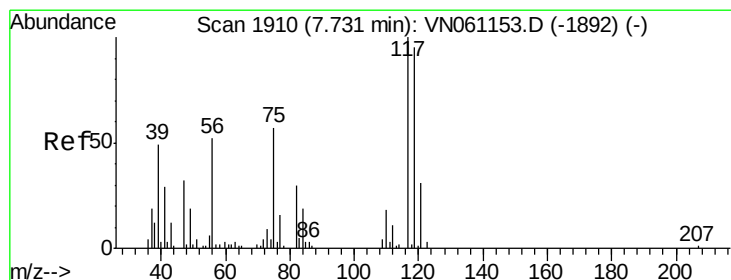
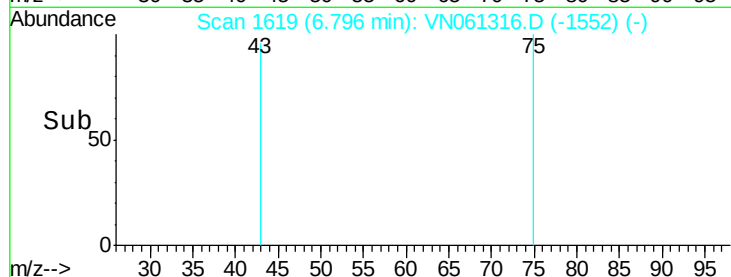
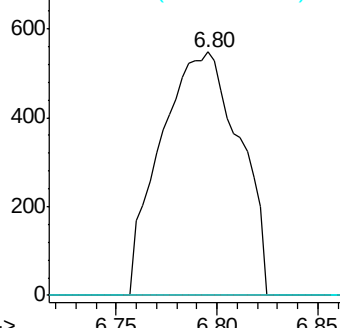
#37
Ethyl Acetate
Concen: 0.753 ug/l
RT: 6.80 min Scan# 1619
Delta R.T. -0.08 min
Lab File: VN061316.D
Acq: 6 May 2020 17:45

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 43 Resp: 1482
Ion Ratio Lower Upper
43 100
61 0.0 10.2 15.2#
70 0.0 7.2 10.8#

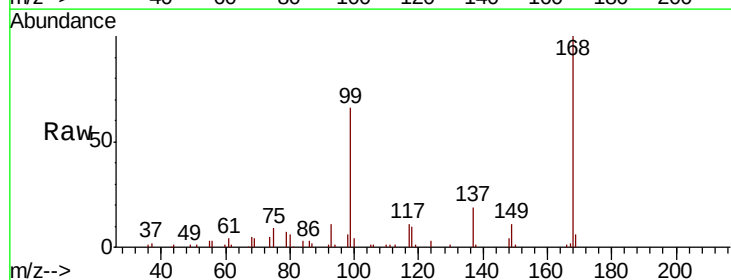


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 70.00 (69.70 to 70.70): VN0

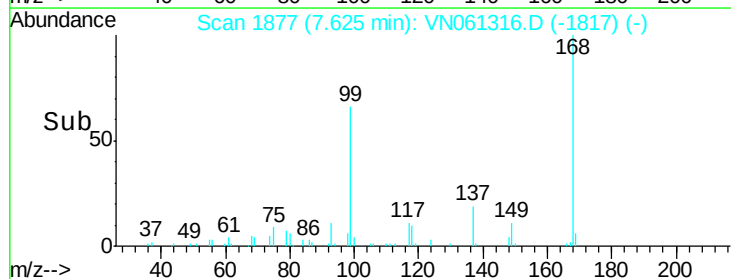
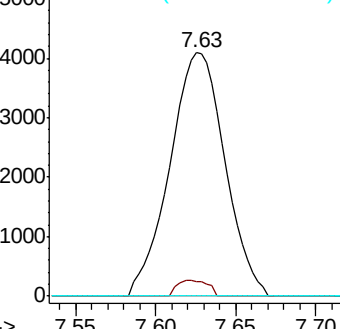


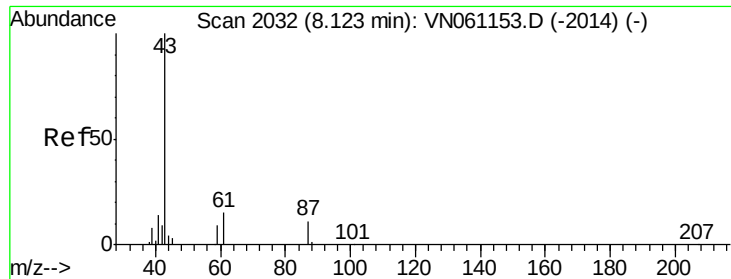
#38
Carbon Tetrachloride
Concen: 8.307 ug/l
RT: 7.63 min Scan# 1877
Delta R.T. -0.11 min
Lab File: VN061316.D
Acq: 6 May 2020 17:45

Tgt Ion: 117 Resp: 9659
Ion Ratio Lower Upper
117 100
119 6.2 75.8 113.6#
121 0.0 24.7 37.1#



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V





#43

Isopropyl Acetate

Concen: 10.893 ug/l

RT: 8.13 min Scan# 2033

Delta R.T. 0.00 min

Lab File: VN061316.D

Acq: 6 May 2020 17:45

Instrument :

MSVOA_N

ClientSampleId :

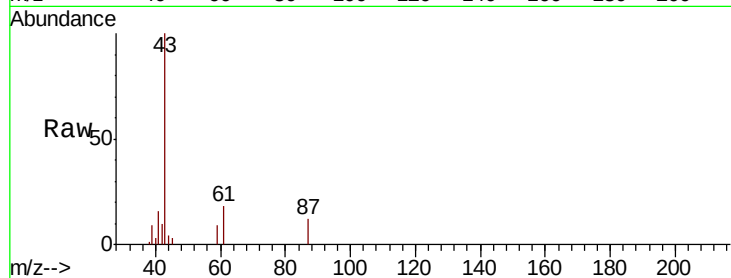
Tot Ion: 43 Resp: 35562

Ion Ratio Lower Upper

43 100

61 17.9 19.5 29.3#

87 10.8 8.9 13.3

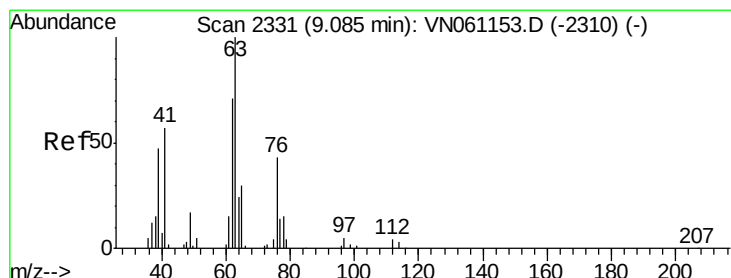
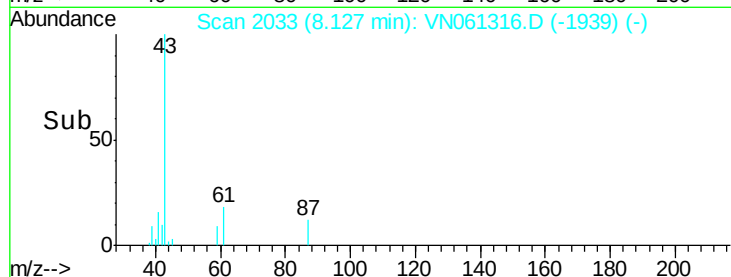
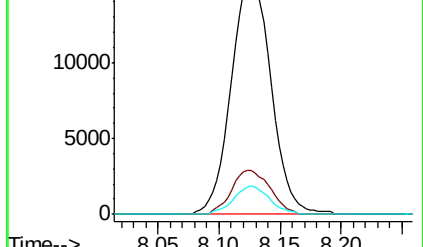


Abundance Ion 43.00 (42.70 to 43.70): VN061153.D (-2014) (-)

Ion 61.00 (60.70 to 61.70): VN061153.D (-2014) (-)

Ion 87.00 (86.70 to 87.70): VN061153.D (-2014) (-)

Time-->



#45

1,2-Dichloropropane

Concen: 0.419 ug/l

RT: 9.24 min Scan# 2378

Delta R.T. 0.15 min

Lab File: VN061316.D

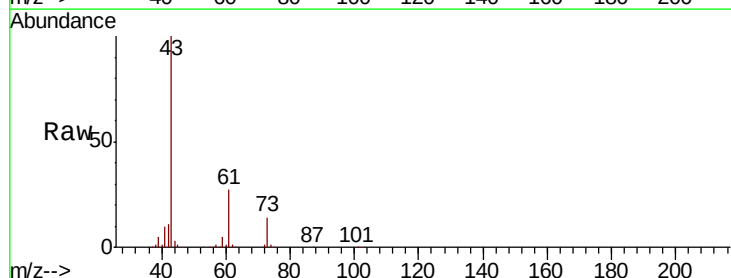
Acq: 6 May 2020 17:45

Tgt Ion: 63 Resp: 559

Ion Ratio Lower Upper

63 100

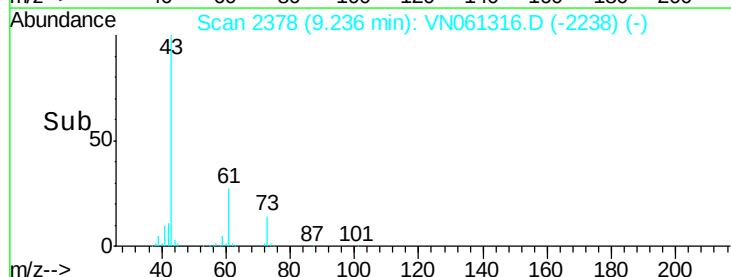
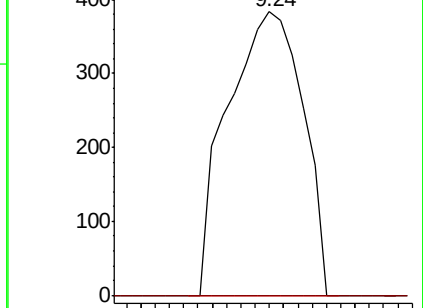
65 0.0 24.7 37.1#

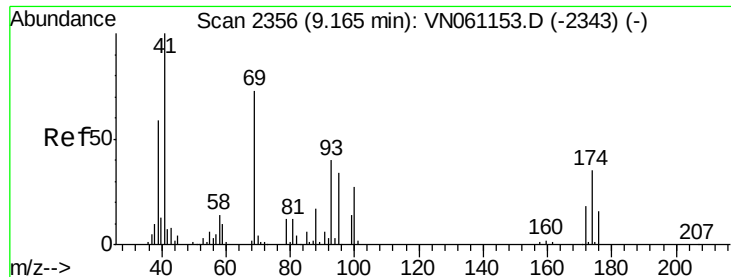


Abundance Ion 62.90 (62.60 to 63.60): VN061153.D (-2310) (-)

Ion 64.90 (64.60 to 65.60): VN061153.D (-2310) (-)

Time-->

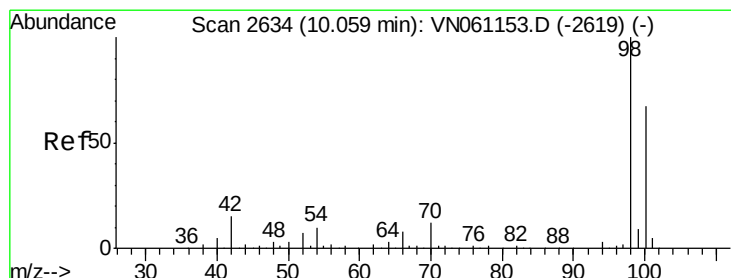
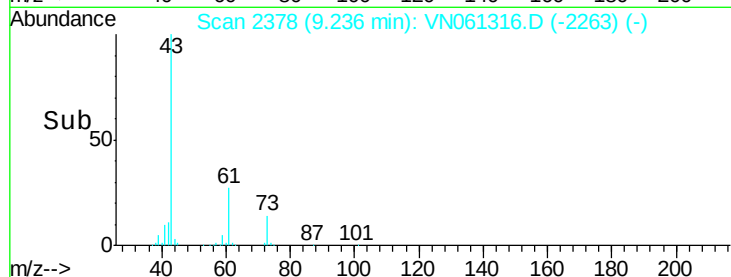
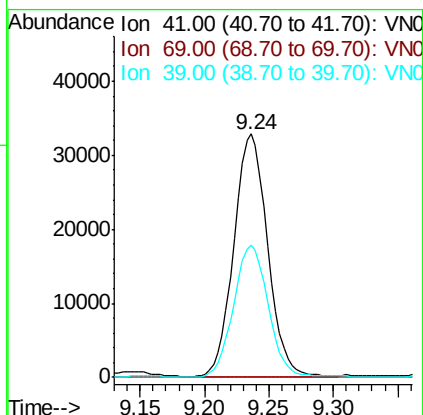
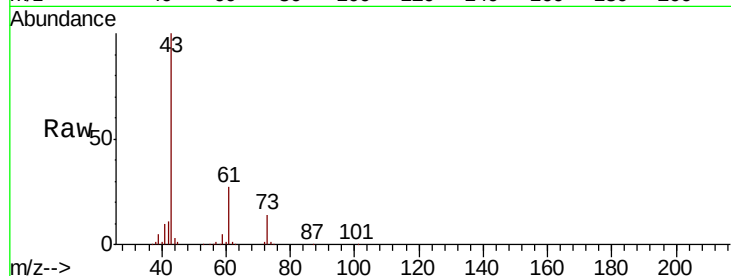




#48
Methvl methacrylate
Concen: 40.897 ug/l
RT: 9.24 min Scan# 2378
Delta R.T. 0.07 min
Lab File: VN061316.D
Acq: 6 May 2020 17:45

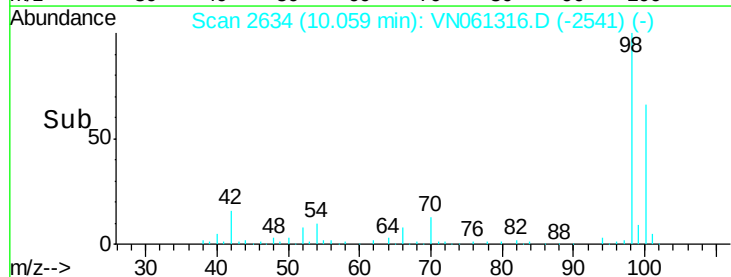
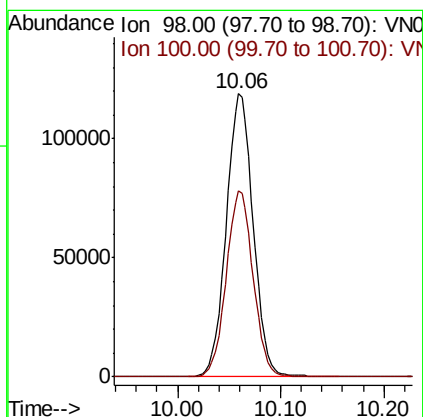
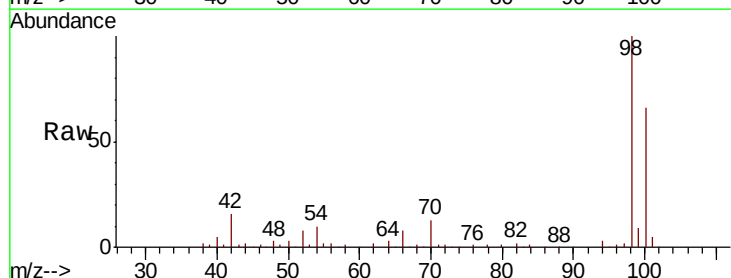
Instrument :
MSVOA_N
ClientSampleId :

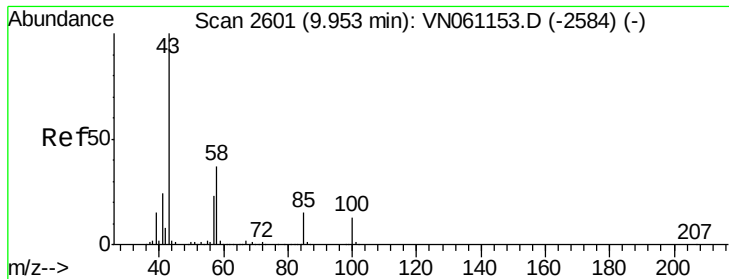
Tot Ion: 41 Resp: 60252
Ion Ratio Lower Upper
41 100
69 0.0 60.3 90.5#
39 55.6 47.4 71.0



#50
Toluene-d8
Concen: 53.553 ug/l
RT: 10.06 min Scan# 2634
Delta R.T. 0.00 min
Lab File: VN061316.D
Acq: 6 May 2020 17:45

Tgt Ion: 98 Resp: 216394
Ion Ratio Lower Upper
98 100
100 65.6 53.4 80.0

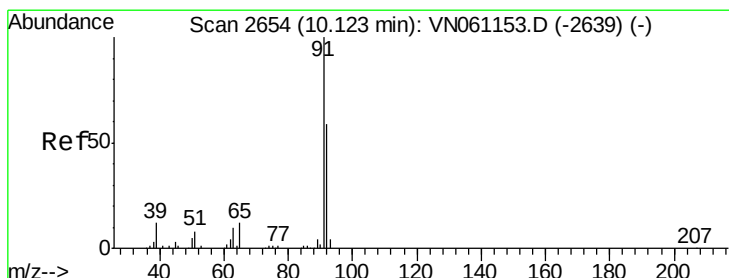
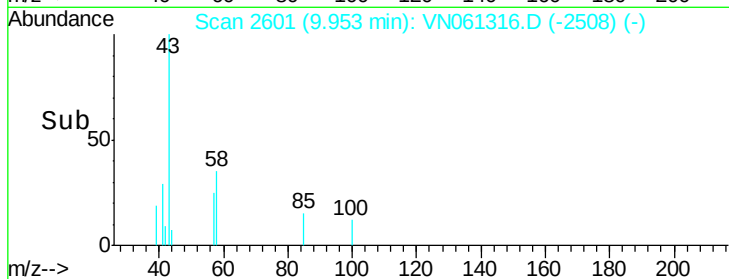
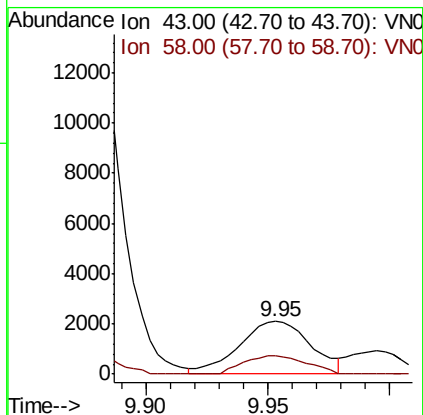
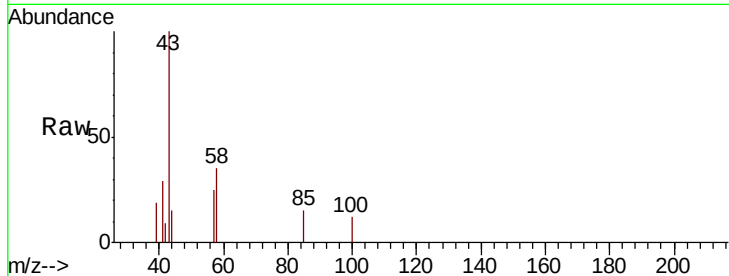




#51
4-Methyl-2-Pentanone
Concen: 2.236 ug/l
RT: 9.95 min Scan# 2601
Delta R.T. 0.00 min
Lab File: VN061316.D
Acq: 6 May 2020 17:45

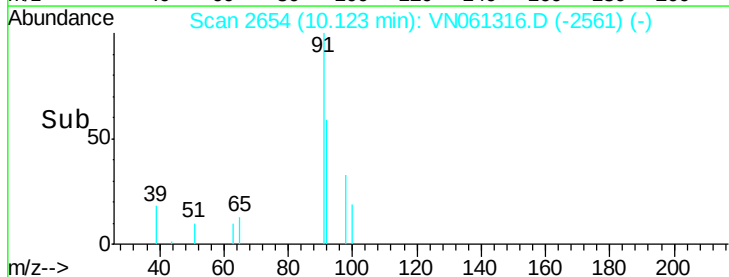
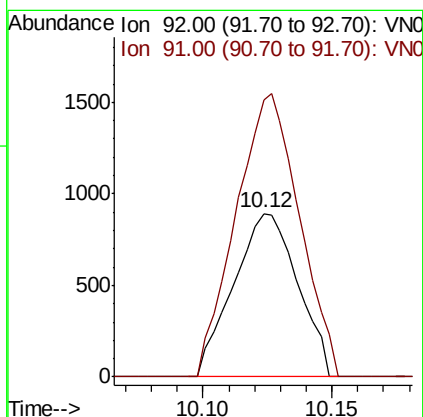
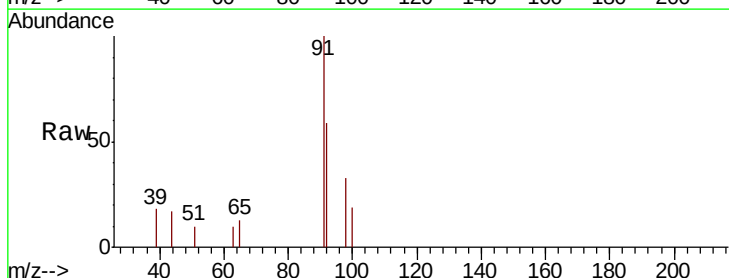
Instrument :
MSVOA_N
ClientSampled :

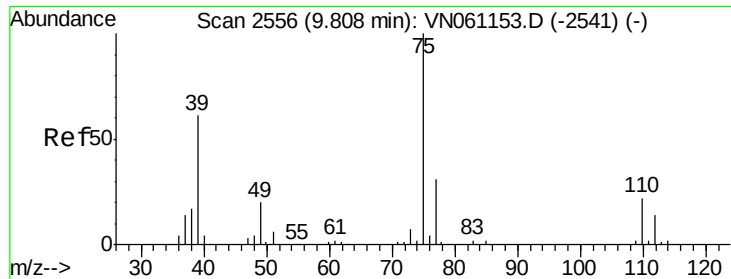
Tot Ion: 43 Resp: 4296
Ion Ratio Lower Upper
43 100
58 30.5 29.1 43.7



#52
Toluene
Concen: 0.514 ug/l
RT: 10.12 min Scan# 2654
Delta R.T. 0.00 min
Lab File: VN061316.D
Acq: 6 May 2020 17:45

Tgt Ion: 92 Resp: 1547
Ion Ratio Lower Upper
92 100
91 171.6 136.2 204.2



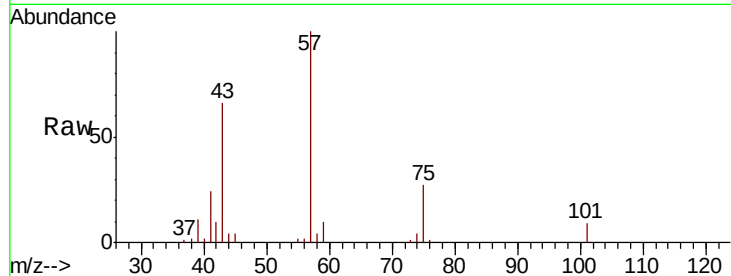


#54

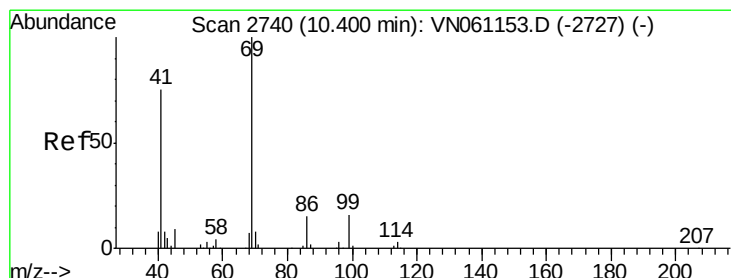
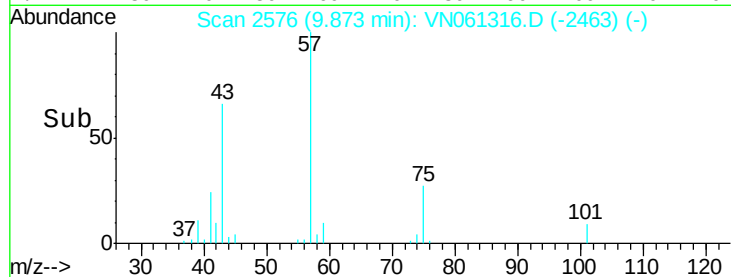
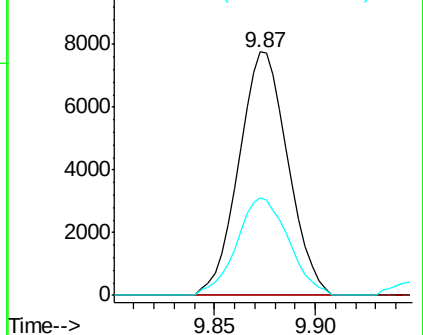
cis-1,3-Dichloropropene
Concen: 6.232 ug/l
RT: 9.87 min Scan# 2576
Delta R.T. 0.06 min
Lab File: VN061316.D
Acq: 6 May 2020 17:45

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 75 Resp: 13177
Ion Ratio Lower Upper
75 100
77 0.0 25.0 37.4#
39 40.3 48.7 73.1#



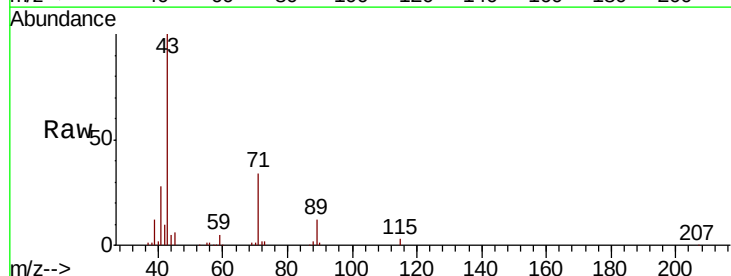
Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 76.90 (76.60 to 77.60): VN0
Ion 39.00 (38.70 to 39.70): VN0



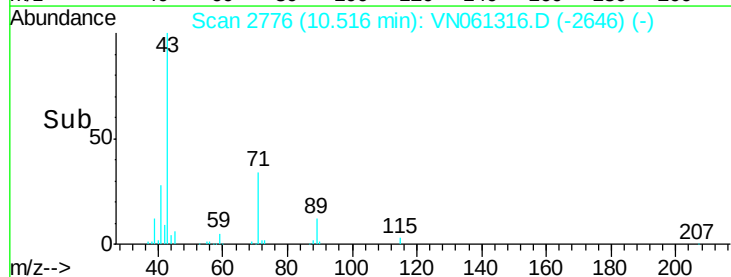
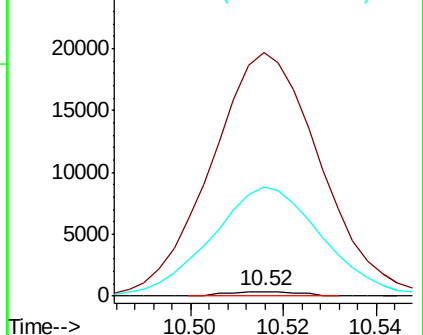
#56

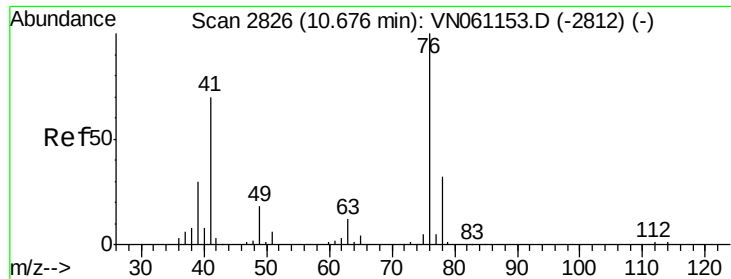
Ethyl methacrylate
Concen: 2.905 ug/l
RT: 10.52 min Scan# 2776
Delta R.T. 0.12 min
Lab File: VN061316.D
Acq: 6 May 2020 17:45

Tgt Ion: 69 Resp: 395
Ion Ratio Lower Upper
69 100
41 8255.7 60.3 90.5#
39 3752.2 35.9 53.9#



Abundance Ion 69.00 (68.70 to 69.70): VN0
Ion 41.00 (40.70 to 41.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

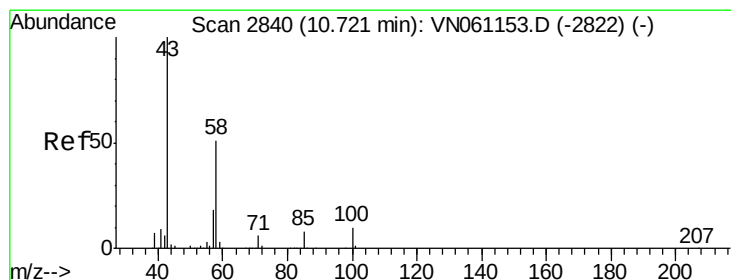
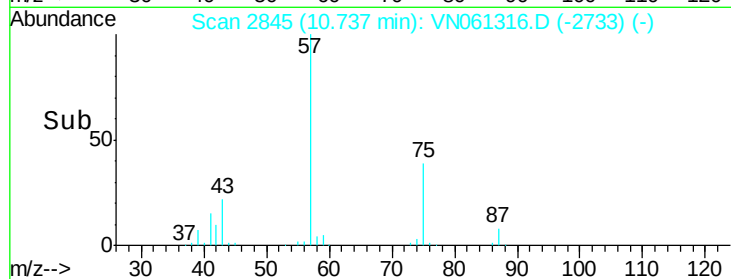
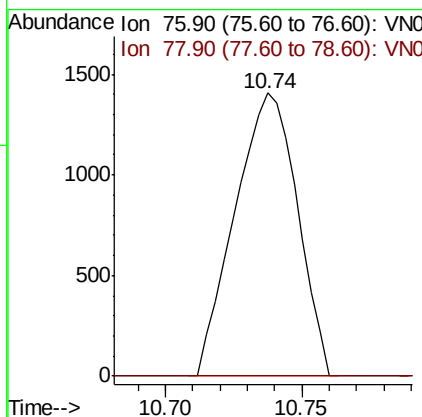
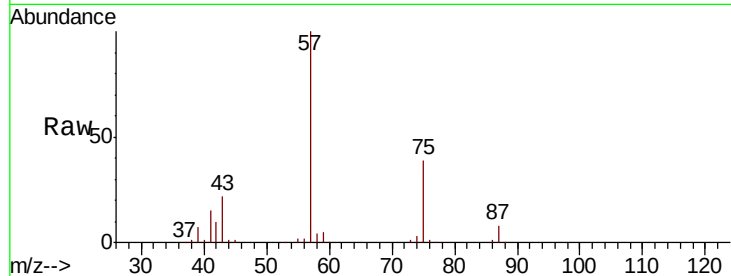




#57
 1,3-Dichloropropane
 Concen: 1.057 ug/l
 RT: 10.74 min Scan# 2845
 Delta R.T. 0.06 min
 Lab File: VN061316.D
 Acq: 6 May 2020 17:45

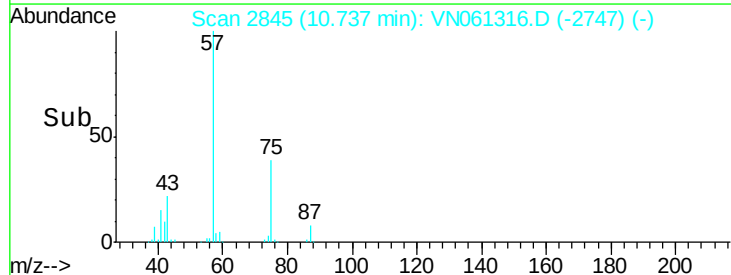
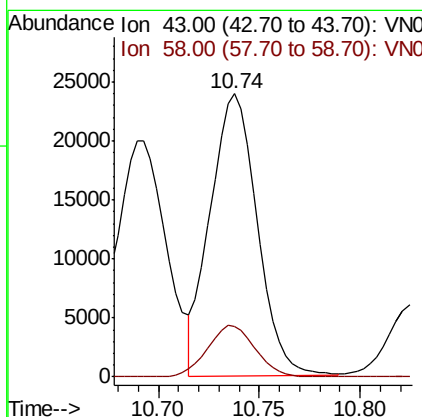
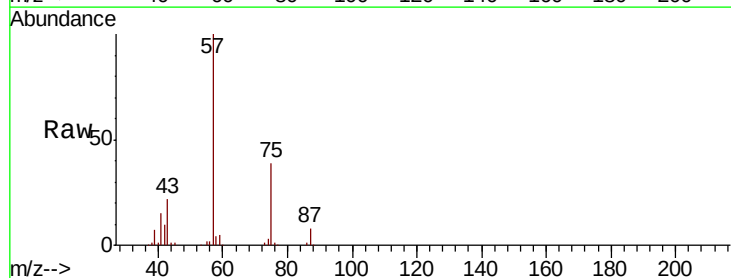
Instrument :
 MSVOA_N
 ClientSampled :

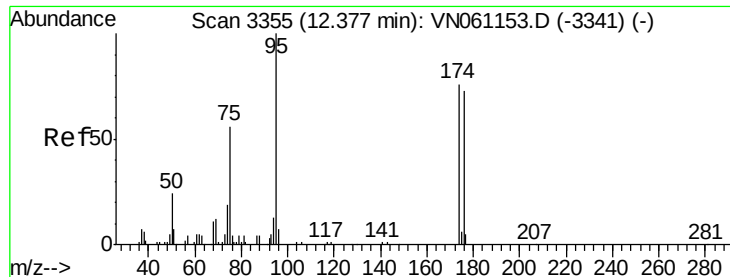
Tot Ion: 76 Resp: 2231
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.5 38.3#



#59
 2-Hexanone
 Concen: 27.733 ug/l
 RT: 10.74 min Scan# 2845
 Delta R.T. 0.02 min
 Lab File: VN061316.D
 Acq: 6 May 2020 17:45

Tgt Ion: 43 Resp: 38773
 Ion Ratio Lower Upper
 43 100
 58 18.3 25.4 76.4#





#62

4-Bromofluorobenzene

Concen: 53.922 ug/l

RT: 12.38 min Scan# 3355

Delta R.T. 0.00 min

Lab File: VN061316.D

Acq: 6 May 2020 17:45

Instrument :

MSVOA_N

ClientSampleId :

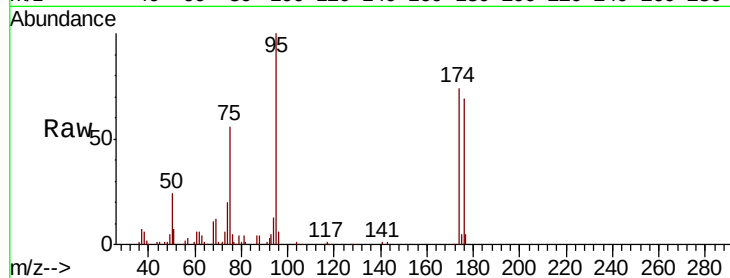
Tot Ion: 95 Resp: 81993

Ion Ratio Lower Upper

95 100

174 72.9 0.0 149.4

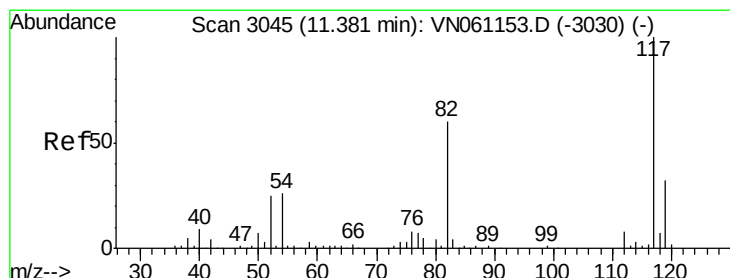
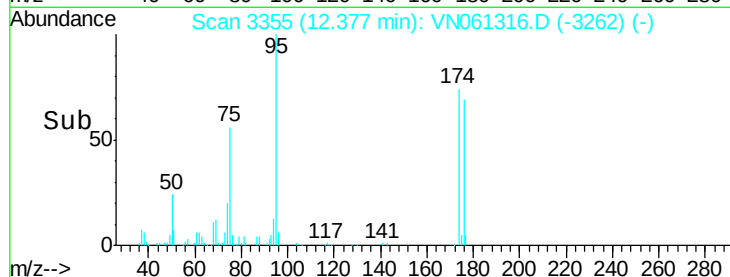
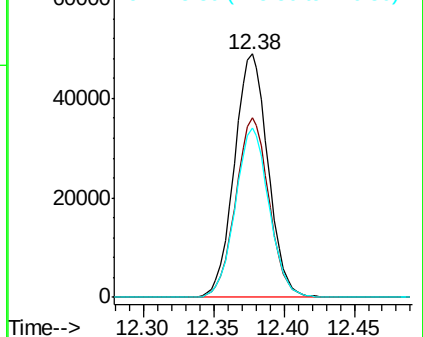
176 69.5 0.0 144.8



Abundance Ion 94.90 (94.60 to 95.60): VN061153.D (-3341) (-)

Ion 173.80 (173.50 to 174.50): VN061153.D (-3341) (-)

Ion 175.80 (175.50 to 176.50): VN061153.D (-3341) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 3045

Delta R.T. 0.00 min

Lab File: VN061316.D

Acq: 6 May 2020 17:45

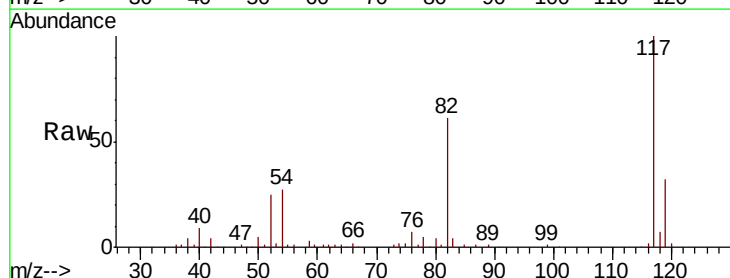
Tgt Ion: 117 Resp: 169636

Ion Ratio Lower Upper

117 100

82 61.2 47.8 71.8

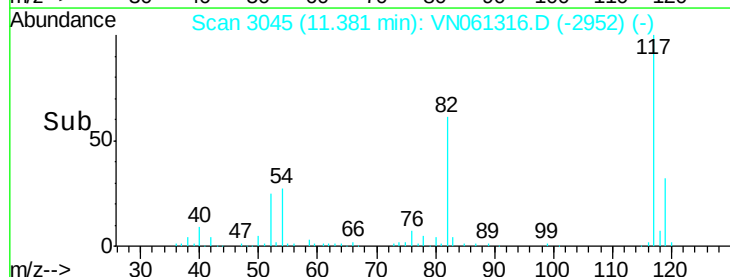
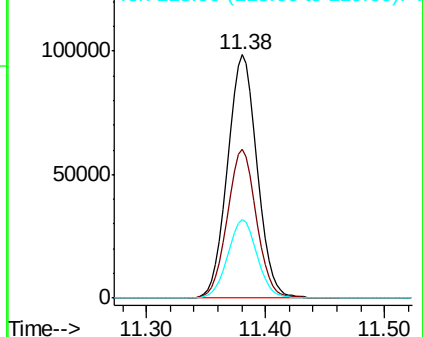
119 32.0 25.8 38.6

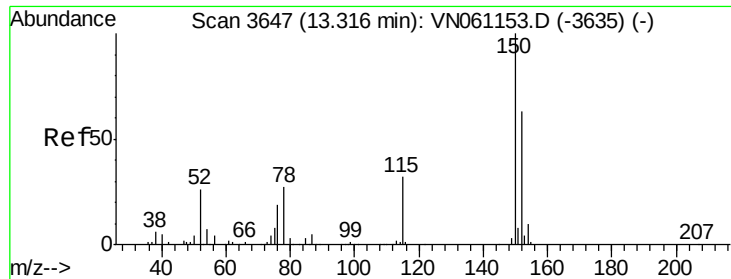


Abundance Ion 116.90 (116.60 to 117.60): VN061153.D (-3030) (-)

Ion 82.00 (81.70 to 82.70): VN061153.D (-3030) (-)

Ion 118.90 (118.60 to 119.60): VN061153.D (-3030) (-)

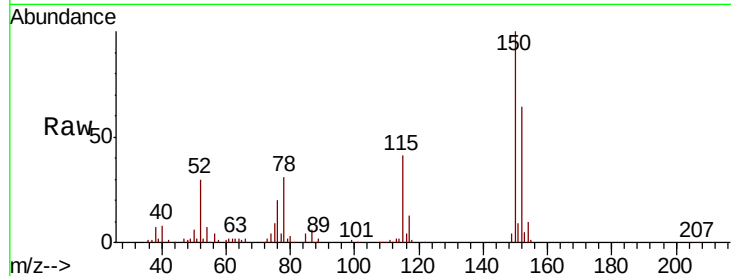




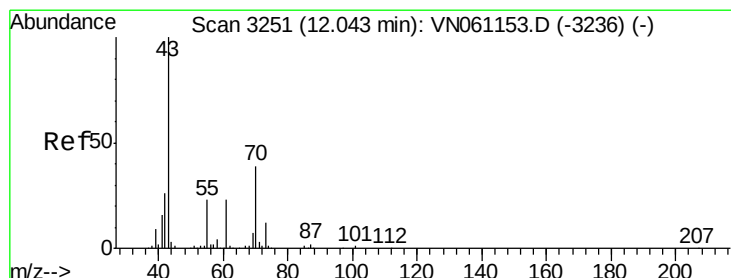
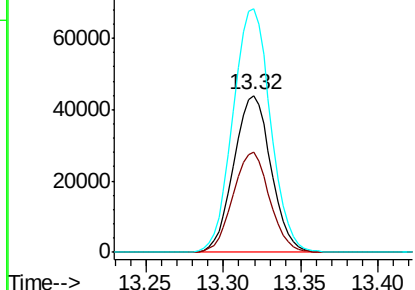
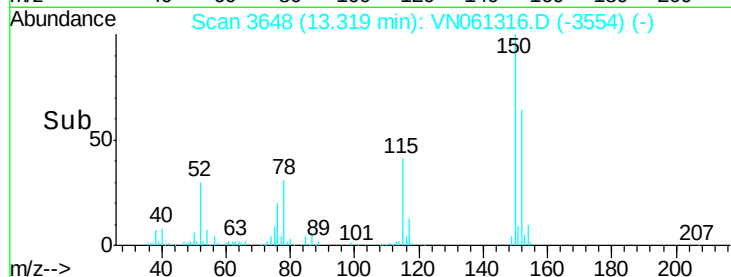
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.32 min Scan# 3648
 Delta R.T. 0.00 min
 Lab File: VN061316.D
 Acq: 6 May 2020 17:45

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:152 Resp: 73534
 Ion Ratio Lower Upper
 152 100
 115 62.8 31.0 93.0
 150 157.1 0.0 351.8

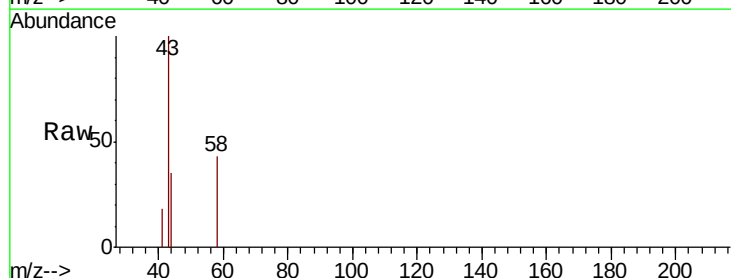


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 114.90 (114.60 to 115.60): V
 Ion 149.90 (149.60 to 150.60): V

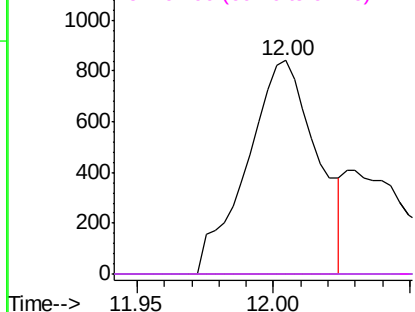
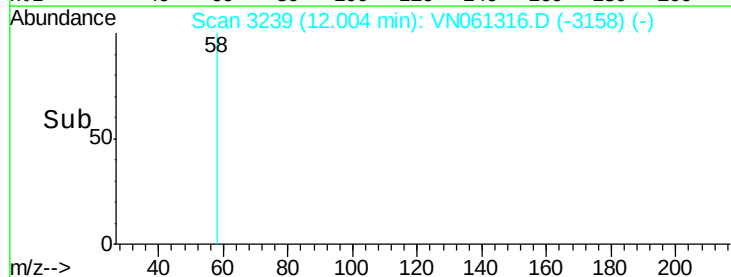


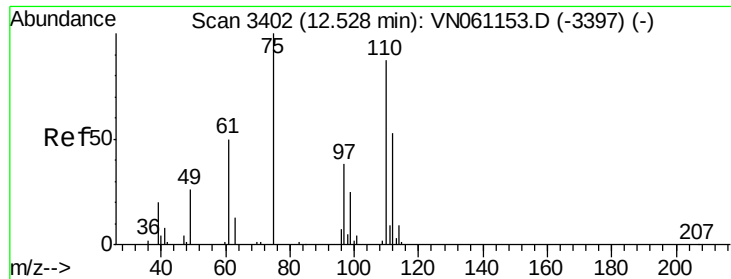
#74
 N-ethyl acetate
 Concen: 0.548 ug/l
 RT: 12.00 min Scan# 3239
 Delta R.T. -0.04 min
 Lab File: VN061316.D
 Acq: 6 May 2020 17:45

Tgt Ion: 43 Resp: 1500
 Ion Ratio Lower Upper
 43 100
 70 0.0 30.6 46.0#
 55 0.0 18.5 27.7#
 61 0.0 17.9 26.9#



Abundance Ion 43.00 (42.70 to 43.70): V
 Ion 70.00 (69.70 to 70.70): V
 Ion 55.00 (54.70 to 55.70): V
 Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 29.378 ug/l

RT: 12.38 min Scan# 3355

Delta R.T. -0.15 min

Lab File: VN061316.D

Acq: 6 May 2020 17:45

Instrument :

MSVOA_N

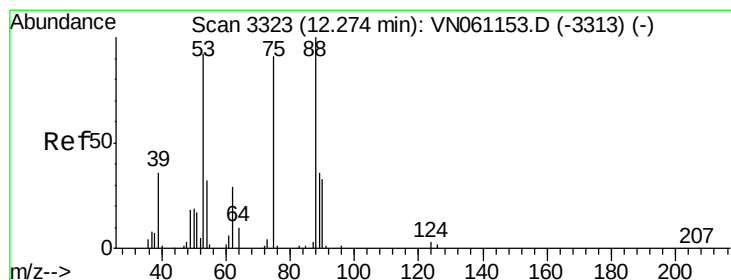
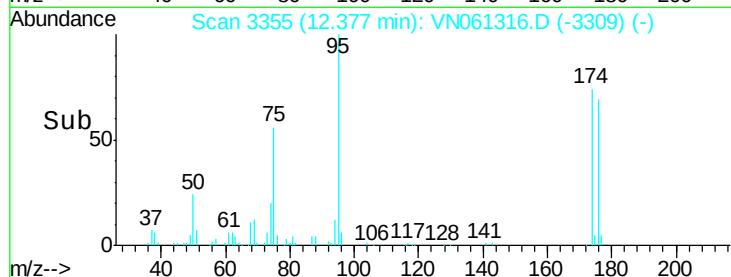
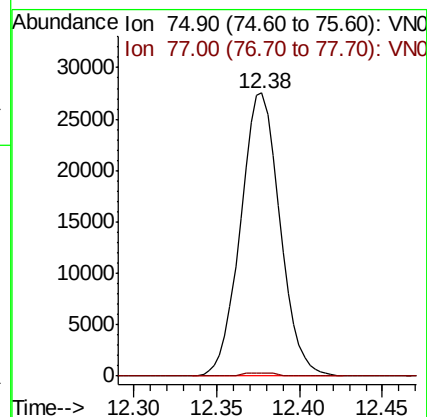
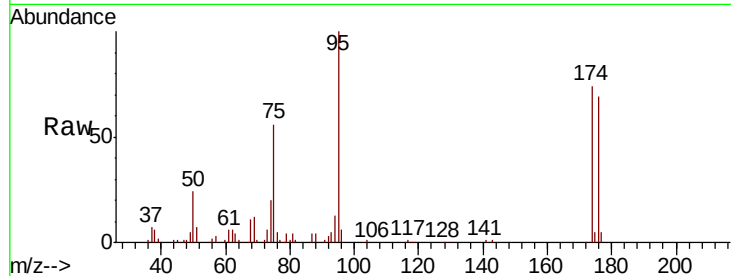
ClientSampled :

Tot Ion: 75 Resp: 45544

Ion Ratio Lower Upper

75 100

77 0.9 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 74.604 ug/l

RT: 12.38 min Scan# 3355

Delta R.T. 0.10 min

Lab File: VN061316.D

Acq: 6 May 2020 17:45

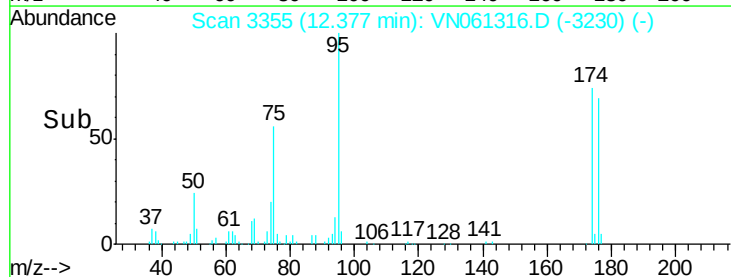
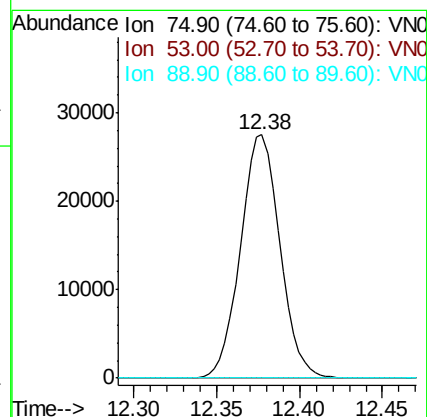
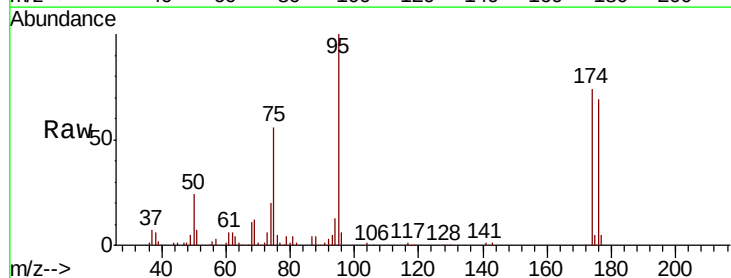
Tgt Ion: 75 Resp: 45544

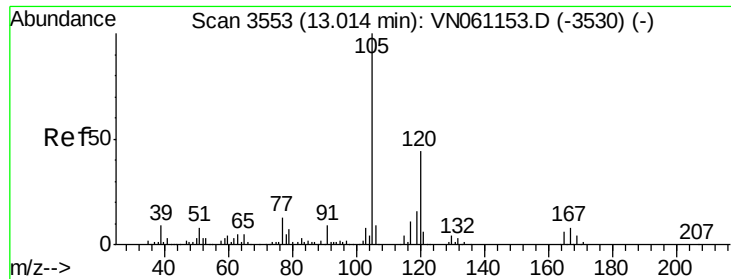
Ion Ratio Lower Upper

75 100

53 0.0 84.1 126.1#

89 0.0 35.2 52.8#





#84

1,2,4-Trimethylbenzene

Concen: 0.220 ug/l

RT: 13.01 min Scan# 3553

Delta R.T. 0.00 min

Lab File: VN061316.D

Acq: 6 May 2020 17:45

Instrument :

MSVOA_N

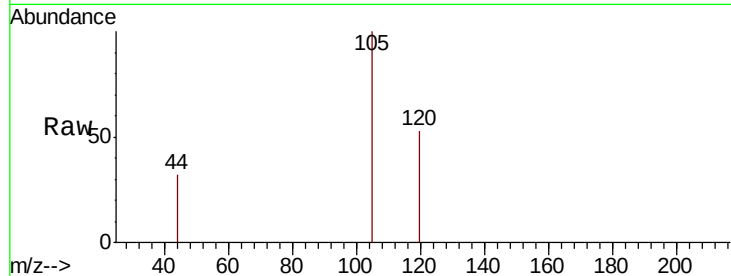
ClientSampled :

Tot Ion:105 Resp: 1016

Ion Ratio Lower Upper

105 100

120 47.5 22.2 66.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

13.01

600

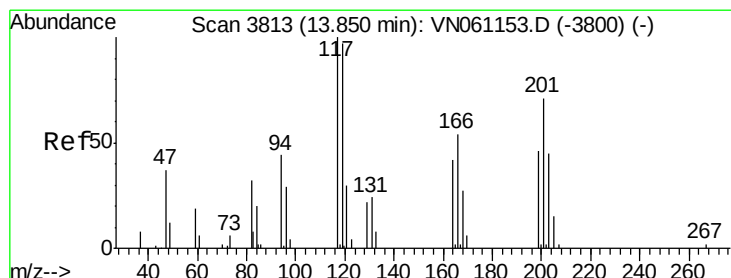
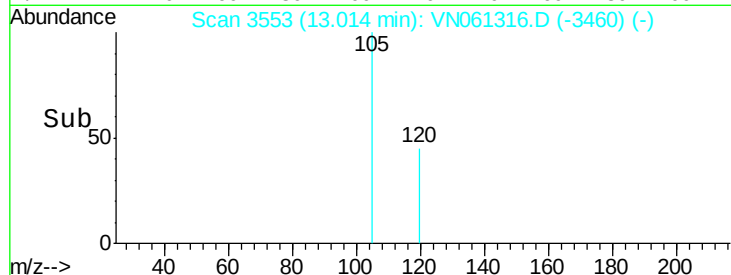
400

200

0

13.00 13.05

Time-->



#90

Hexachloroethane

Concen: 8.222 ug/l

RT: 13.97 min Scan# 3851

Delta R.T. 0.12 min

Lab File: VN061316.D

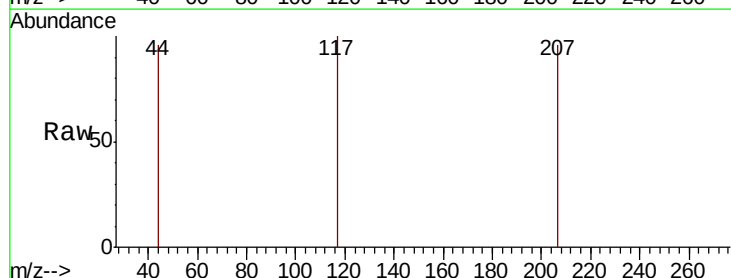
Acq: 6 May 2020 17:45

Tgt Ion:117 Resp: 340

Ion Ratio Lower Upper

117 100

201 0.0 35.5 106.7#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

13.97

300

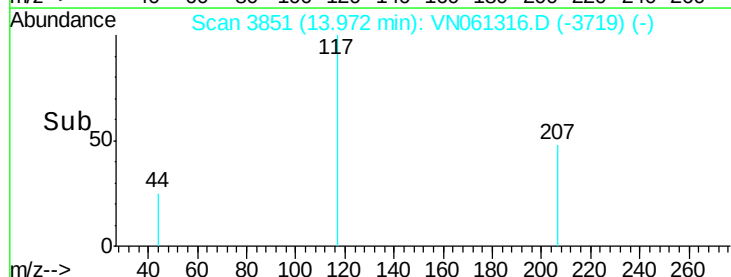
200

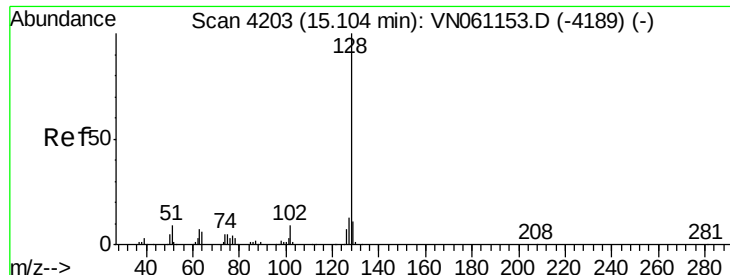
100

0

13.94 13.96 13.98

Time-->

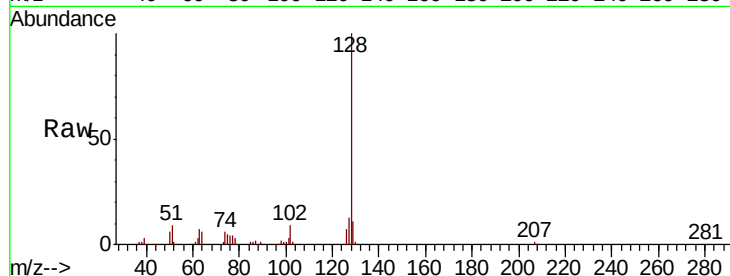




#95
Naphthalene
Concen: 39.056 ug/l
RT: 15.10 min Scan# 4203
Delta R.T. 0.00 min
Lab File: VN061316.D
Acq: 6 May 2020 17:45

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.4	15.6
129	10.6	8.7	13.1



Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

