

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN042220\
 Data File : VN061147.D
 Acq On : 22 Apr 2020 22:56
 Operator : JC/MD
 Sample : L2375-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

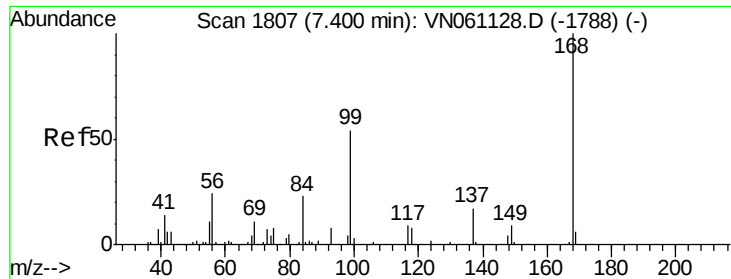
Quant Time: Apr 23 07:41:05 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N042220W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 22 15:26:40 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.40	168	173445	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.35	114	288397	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.21	117	278900	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.15	152	137366	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.77	65	111419	48.45	ug/l	0.00
Spiked Amount			Recovery	=	96.90%	
35) Dibromofluoromethane	7.31	113	83389	50.67	ug/l	0.00
Spiked Amount			Recovery	=	101.34%	
50) Toluene-d8	9.88	98	352987	50.05	ug/l	0.00
Spiked Amount			Recovery	=	100.10%	
62) 4-Bromofluorobenzene	12.21	95	138969	52.61	ug/l	0.00
Spiked Amount			Recovery	=	105.22%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.44	59	522	1.761	ug/l #	72
14) Allyl chloride	4.00	41	29	Below Cal	#	20
16) Acetone	3.55	43	29427	24.984	ug/l	100
18) Methyl Acetate	4.03	43	3142	0.709	ug/l #	67
20) Methylene Chloride	4.24	84	10329	5.140	ug/l	96
25) 2-Butanone	6.52	43	6865	5.478	ug/l	100
29) Tetrahydrofuran	6.90	42	398	0.461	ug/l #	33
31) Cyclohexane	7.40	56	3934	1.114	ug/l #	1
36) 1,1-Dichloropropene	7.40	75	13508	4.792	ug/l #	49
37) Ethyl Acetate	6.52	43	6865	2.430	ug/l #	69
38) Carbon Tetrachloride	7.40	117	16828	6.820	ug/l #	16
40) Benzene	7.78	78	8448	1.012	ug/l	99
43) Isopropyl Acetate	7.92	43	50477	10.521	ug/l	99
45) 1,2-Dichloropropane	9.05	63	1046	0.474	ug/l #	44
48) Methyl methacrylate	8.95	41	3233	1.431	ug/l #	14
49) 1,4-Dioxane	8.98	88	583	Below Cal	#	1
51) 4-Methyl-2-Pentanone	9.78	43	5630	2.010	ug/l	95
54) cis-1,3-Dichloropropene	9.70	75	21892	6.165	ug/l #	60
57) 1,3-Dichloropropane	10.57	76	3693	1.081	ug/l #	42
59) 2-Hexanone	10.57	43	54380	26.286	ug/l #	52
74) N-amyl acetate	11.84	43	2543	0.545	ug/l #	44
76) 1,2,3-Trichloropropane	12.21	75	71278	22.495	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.21	75	71278	59.077	ug/l #	12
84) 1,2,4-Trimethylbenzene	12.85	105	2494	0.286	ug/l	82
90) Hexachloroethane	13.75	117	331	4.619	ug/l #	8
95) Naphthalene	14.93	128	431798	50.152	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.40 min Scan# 1807

Delta R.T. 0.00 min

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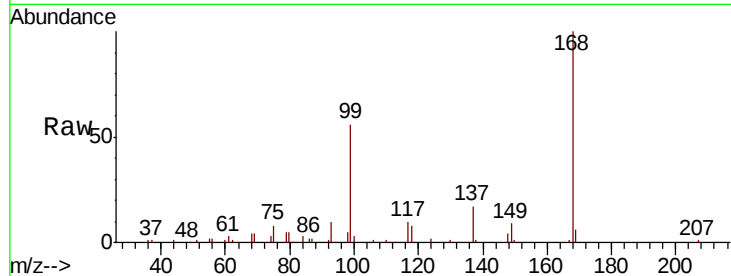
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:168 Resp: 173445

Ion Ratio Lower Upper

168 100

99 55.8 44.3 66.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.40

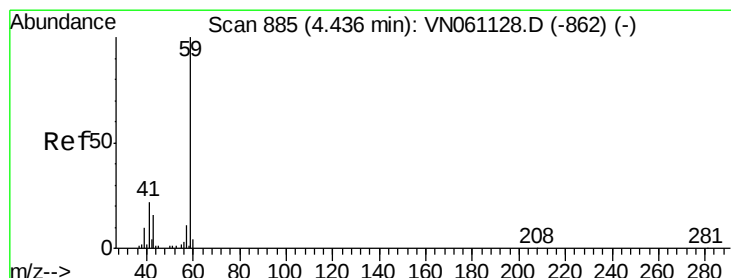
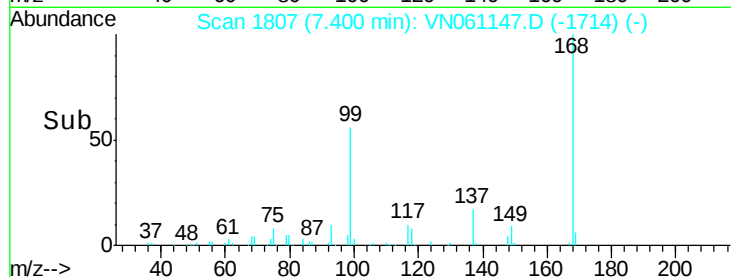
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 1.761 ug/l

RT: 4.44 min Scan# 885

Delta R.T. 0.00 min

Lab File: VN061147.D

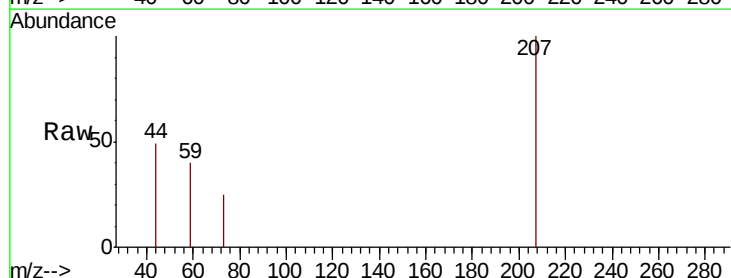
Acq: 22 Apr 2020 22:56

Tgt Ion: 59 Resp: 522

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

300

250

200

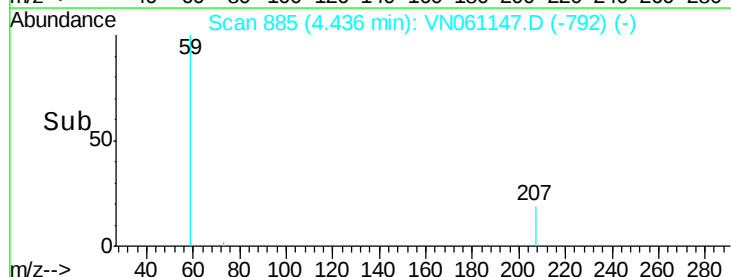
150

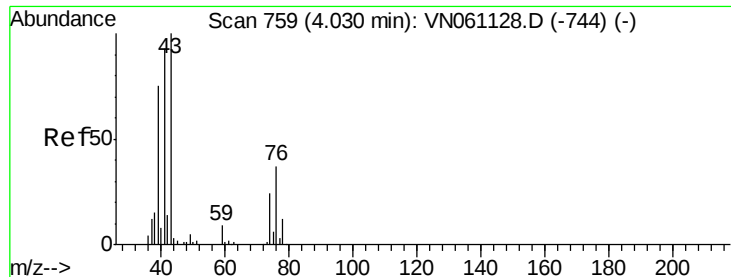
100

50

0

Time-->





#14

Allvl chloride

Concen: Below Cal

RT: 4.00 min Scan# 748

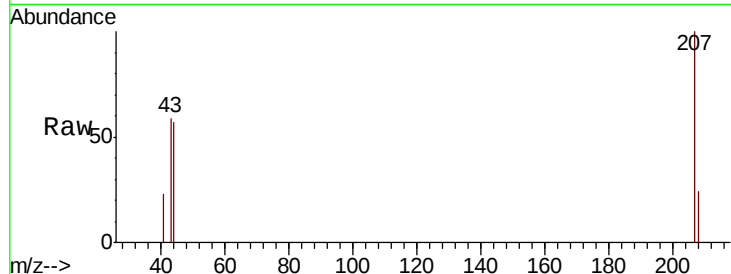
Delta R.T. -0.03 min

Lab File: VN061147.D

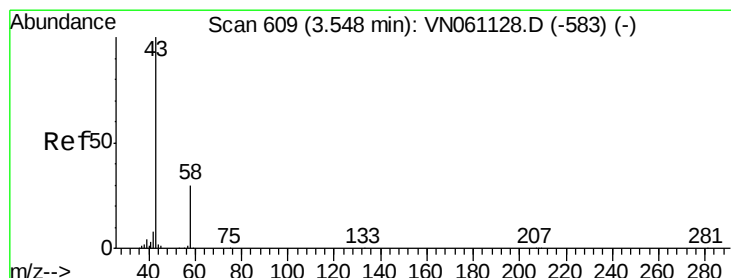
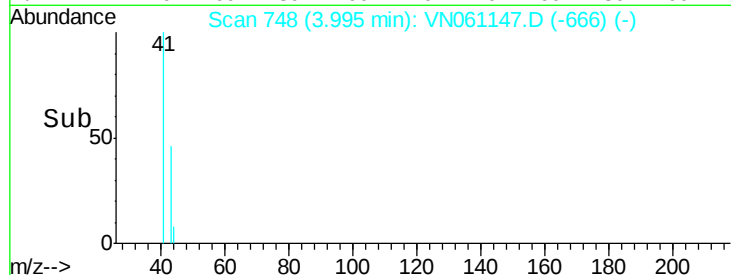
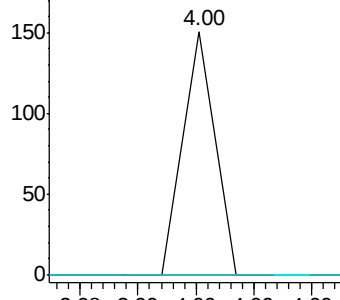
Acq: 22 Apr 2020 22:56

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:	41	Resp:	29
Ion	Ratio	Lower	Upper
41	100		
39	0.0	61.0	91.4#
76	0.0	28.9	43.3#



Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 39.00 (38.70 to 39.70): VN0
Ion 75.90 (75.60 to 76.60): VN0



#16

Acetone

Concen: 24.984 ug/l

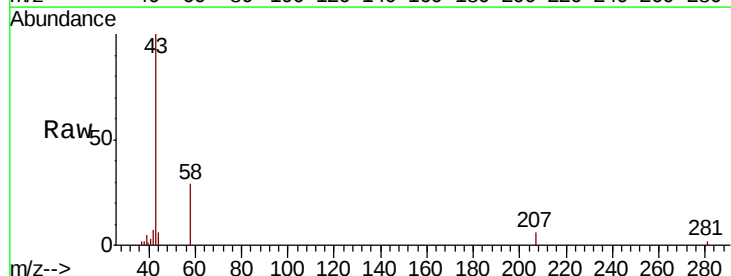
RT: 3.55 min Scan# 610

Delta R.T. 0.00 min

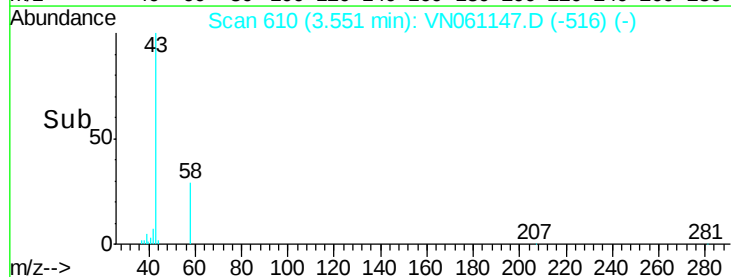
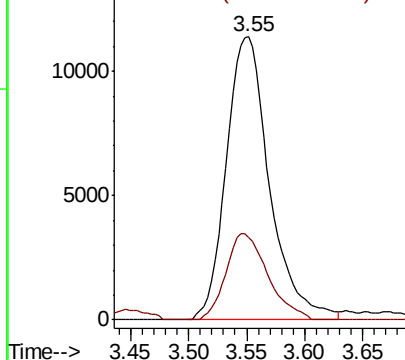
Lab File: VN061147.D

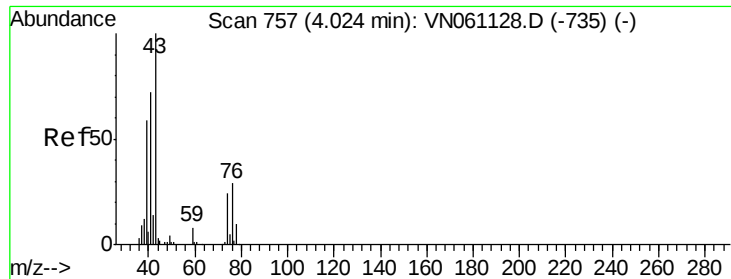
Acq: 22 Apr 2020 22:56

Tgt Ion:	43	Resp:	29427
Ion	Ratio	Lower	Upper
43	100		
58	29.3	23.6	35.4



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

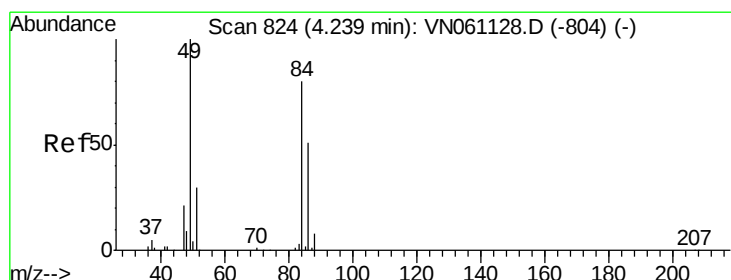
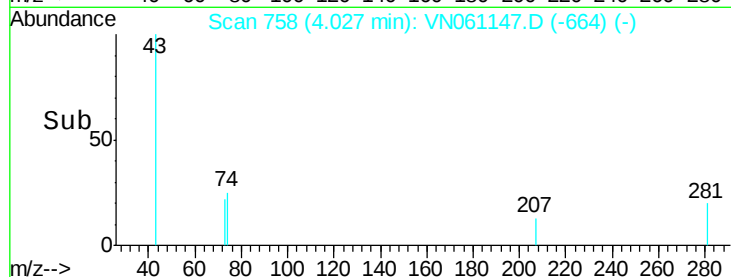
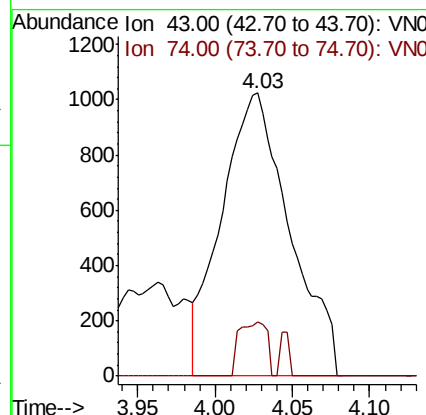
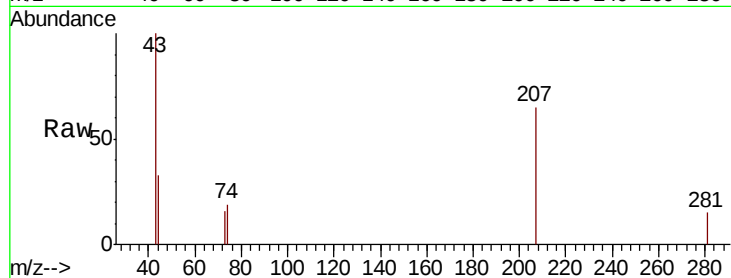




#18
Methyl Acetate
Concen: 0.709 ug/l
RT: 4.03 min Scan# 758
Delta R.T. 0.00 min
Lab File: VN061147.D
Acq: 22 Apr 2020 22:56

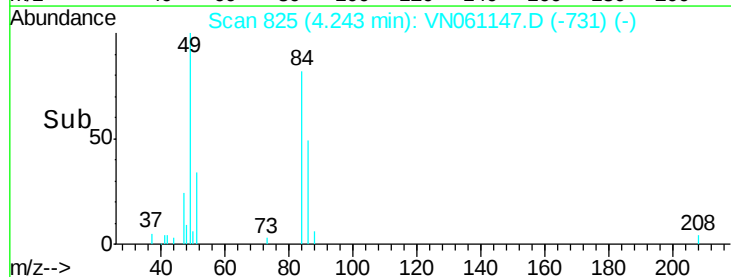
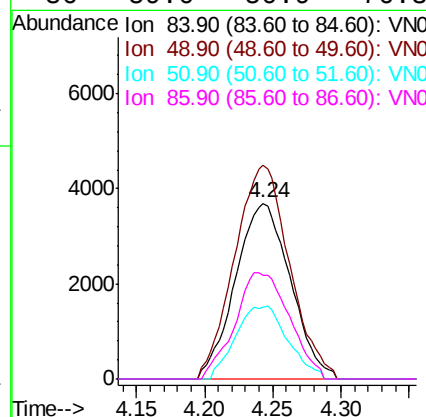
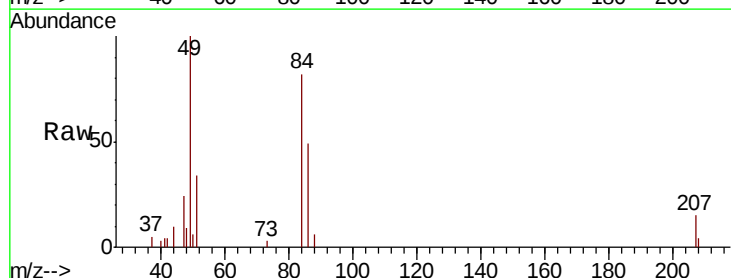
Instrument :
MSVOA_V
ClientSampled :

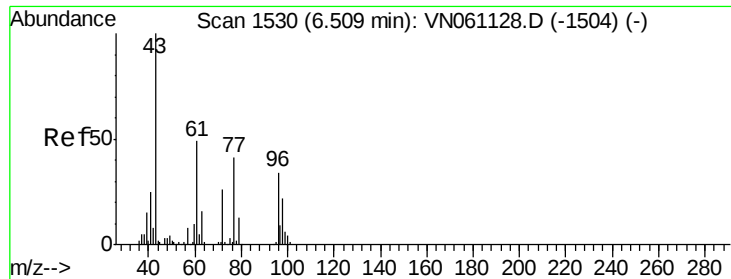
Tot Ion: 43 Resp: 3142
Ion Ratio Lower Upper
43 100
74 7.7 19.4 29.0#



#20
Methylene Chloride
Concen: 5.140 ug/l
RT: 4.24 min Scan# 825
Delta R.T. 0.00 min
Lab File: VN061147.D
Acq: 22 Apr 2020 22:56

Tgt Ion: 84 Resp: 10329
Ion Ratio Lower Upper
84 100
49 121.6 99.8 149.6
51 40.9 29.9 44.9
86 59.0 50.9 76.3

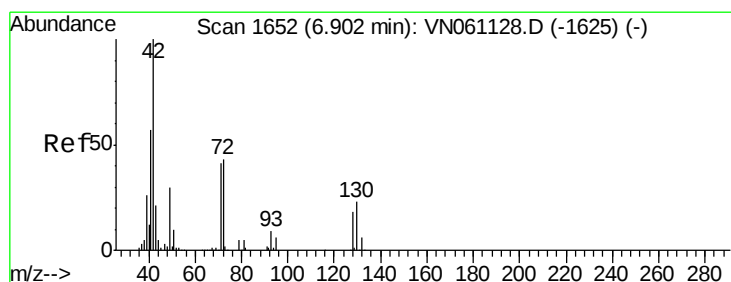
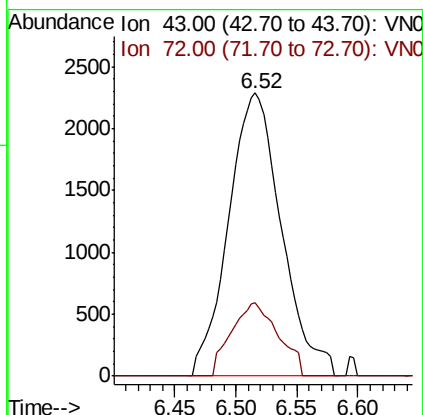
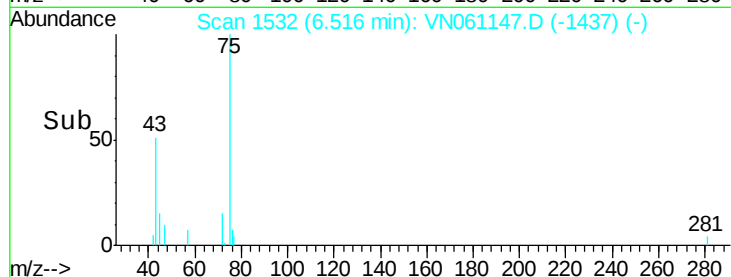
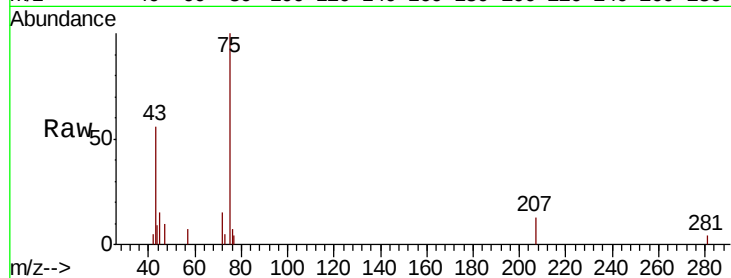




#25
2-Butanone
Concen: 5.478 ug/l
RT: 6.52 min Scan# 1532
Delta R.T. 0.01 min
Lab File: VN061147.D
Acq: 22 Apr 2020 22:56

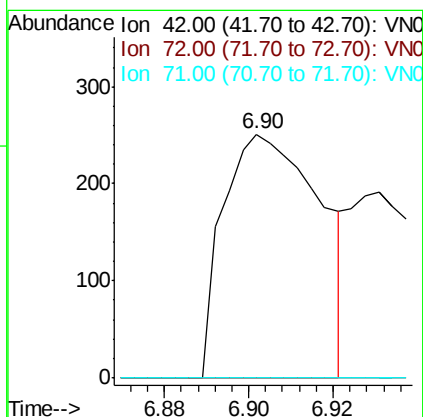
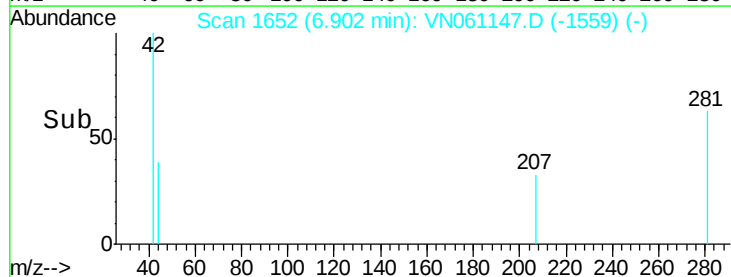
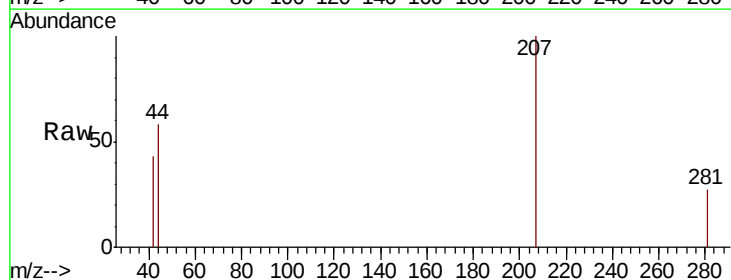
Instrument :
MSVOA_V
ClientSampleId :

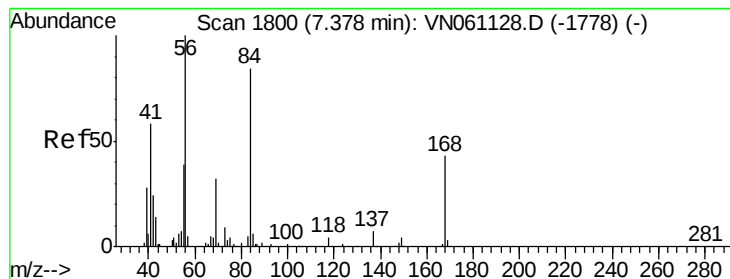
Tot Ion: 43 Resp: 6865
Ion Ratio Lower Upper
43 100
72 26.1 20.8 31.2



#29
Tetrahydrofuran
Concen: 0.461 ug/l
RT: 6.90 min Scan# 1652
Delta R.T. 0.00 min
Lab File: VN061147.D
Acq: 22 Apr 2020 22:56

Tgt Ion: 42 Resp: 398
Ion Ratio Lower Upper
42 100
72 0.0 35.1 52.7#
71 0.0 33.0 49.6#





#31

Cyclohexane

Concen: 1.114 ug/l

RT: 7.40 min Scan# 1806

Delta R.T. 0.02 min

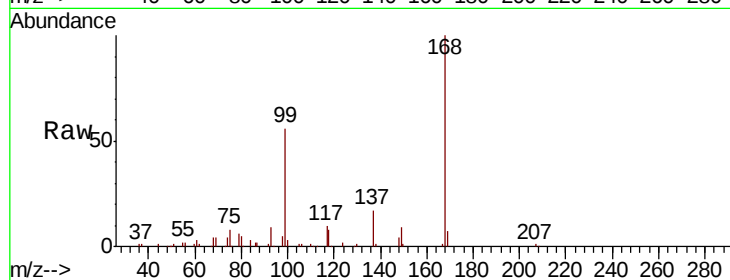
Lab File: VN061147.D

Acq: 22 Apr 2020 22:56

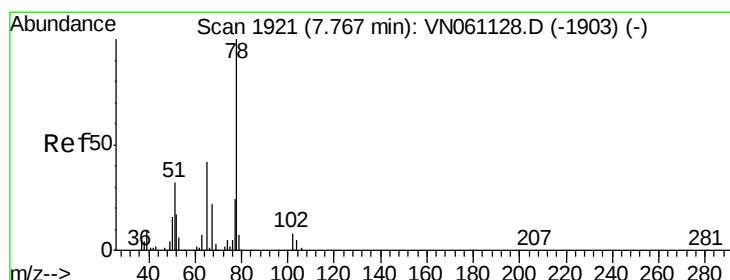
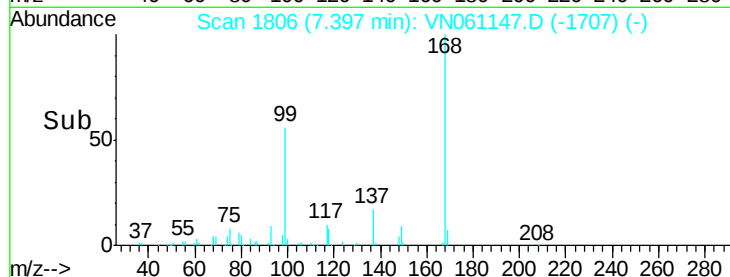
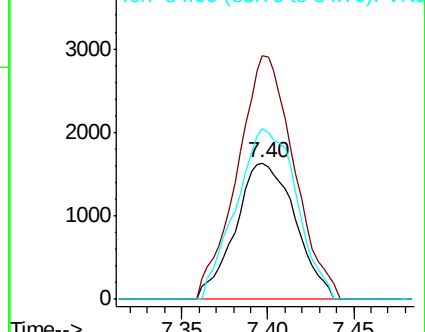
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 56 Resp: 3934

Ion	Ratio	Lower	Upper
56	100		
69	178.5	25.9	38.9#
84	124.8	67.4	101.0#



Abundance Ion 56.00 (55.70 to 56.70): VN061147.D (-1707) (-)



#33

1,2-Dichloroethane-d4

Concen: 48.446 ug/l

RT: 7.77 min Scan# 1921

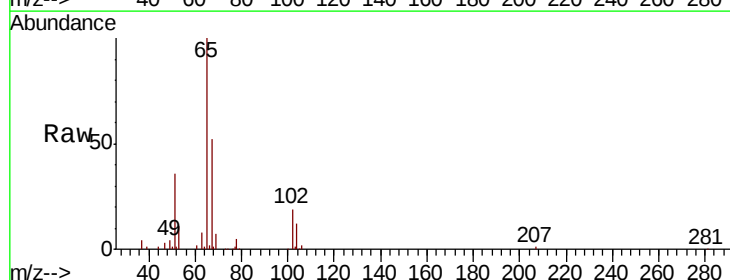
Delta R.T. 0.00 min

Lab File: VN061147.D

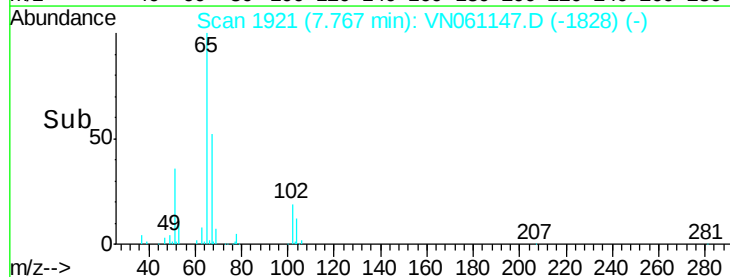
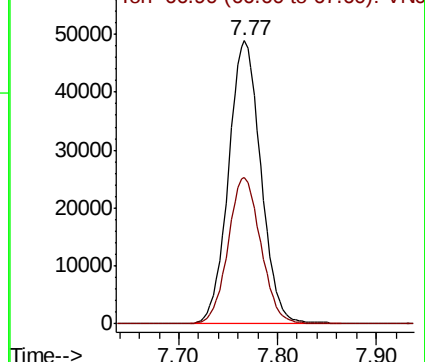
Acq: 22 Apr 2020 22:56

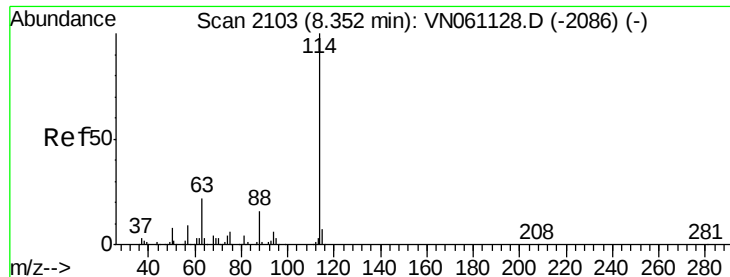
Tgt Ion: 65 Resp: 111419

Ion	Ratio	Lower	Upper
65	100		
67	52.2	0.0	105.8



Abundance Ion 64.90 (64.60 to 65.60): VN061147.D (-1828) (-)





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.35 min Scan# 2102

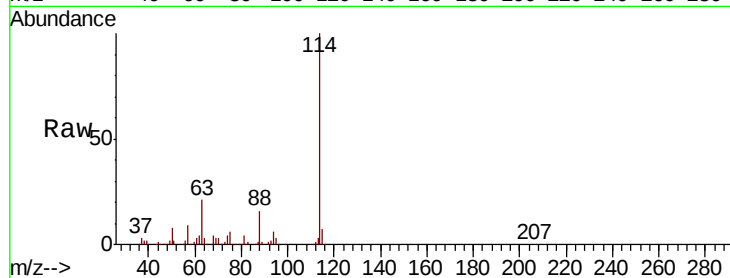
Delta R.T. -0.00 min

Lab File: VN061147.D

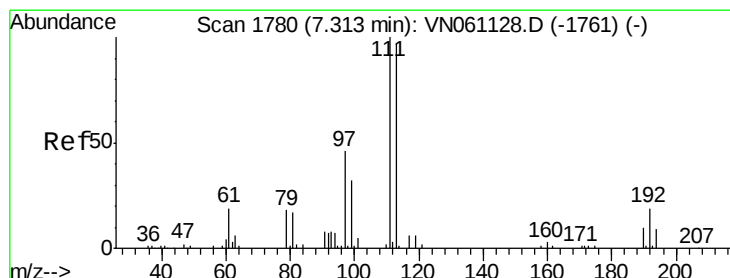
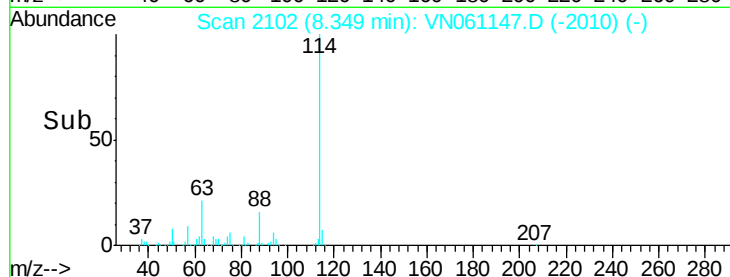
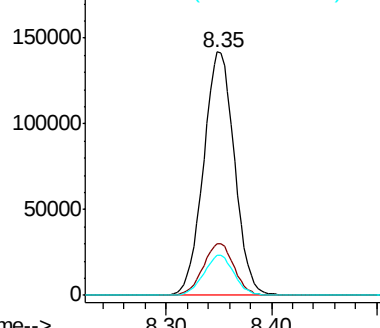
Acq: 22 Apr 2020 22:56

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:114	Resp:	288397
Ion	Ratio	Lower Upper
114	100	
63	21.4	0.0 43.2
88	16.4	0.0 32.4



Abundance Ion 113.90 (113.60 to 114.60): V



#35

Dibromofluoromethane

Concen: 50.666 ug/l

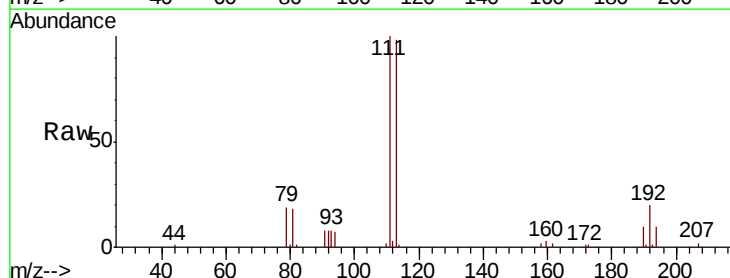
RT: 7.31 min Scan# 1780

Delta R.T. 0.00 min

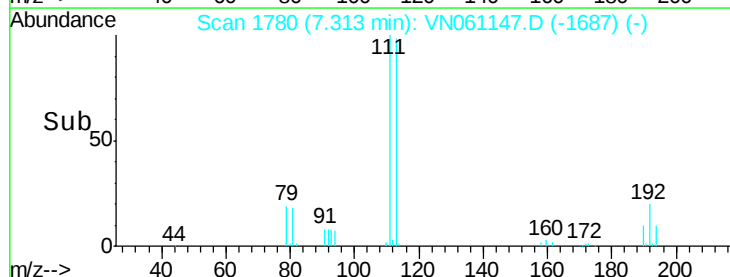
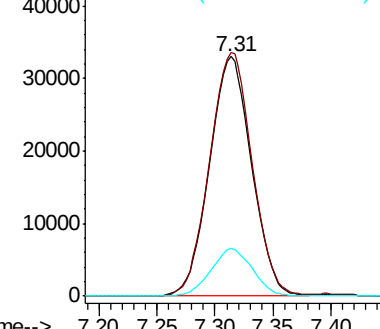
Lab File: VN061147.D

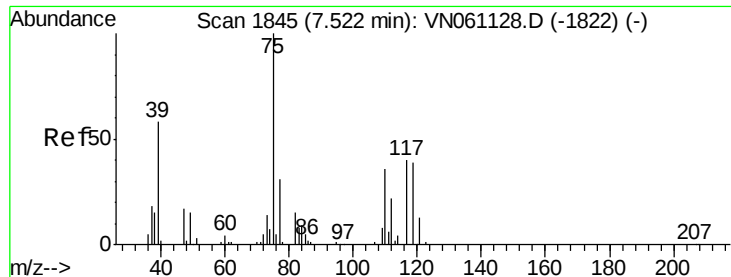
Acq: 22 Apr 2020 22:56

Tgt Ion:113	Resp:	83389
Ion	Ratio	Lower Upper
113	100	
111	102.9	83.0 124.6
192	19.7	15.8 23.6



Abundance Ion 112.80 (112.50 to 113.50): V

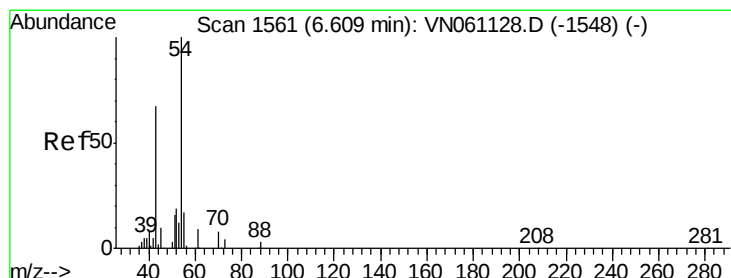
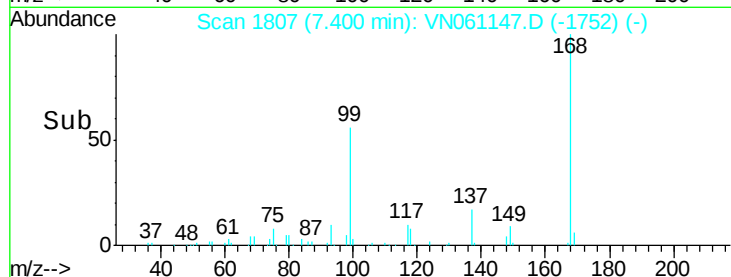
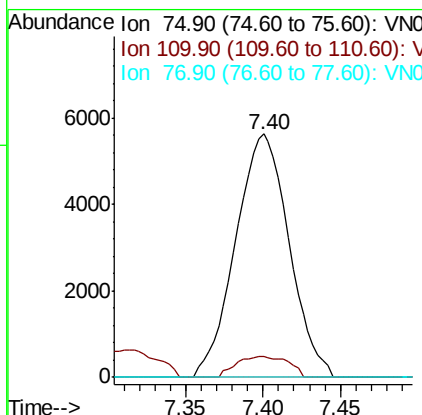
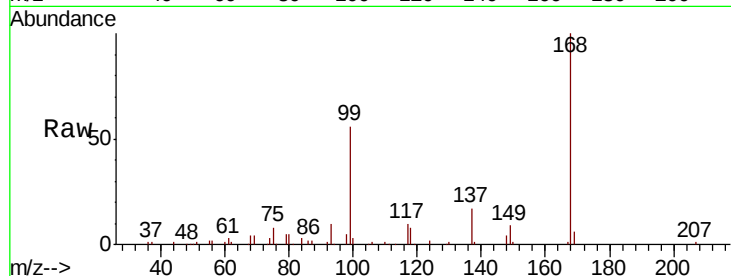




#36
 1,1-Dichloropropene
 Concen: 4.792 ug/l
 RT: 7.40 min Scan# 1807
 Delta R.T. -0.12 min
 Lab File: VN061147.D
 Acq: 22 Apr 2020 22:56

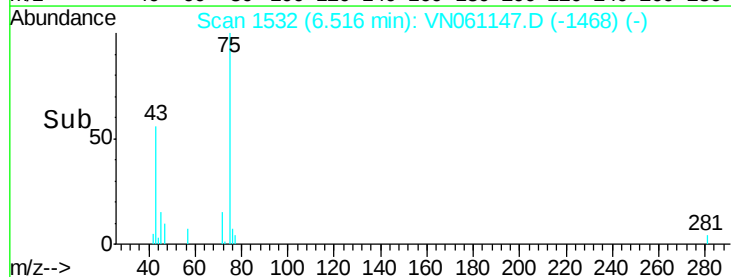
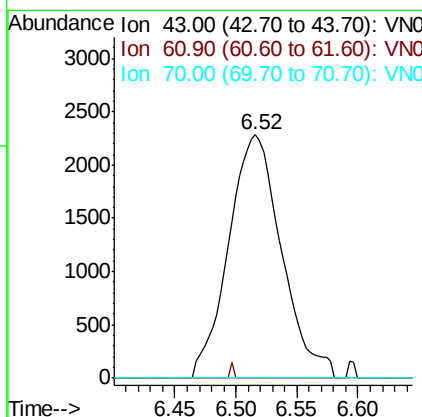
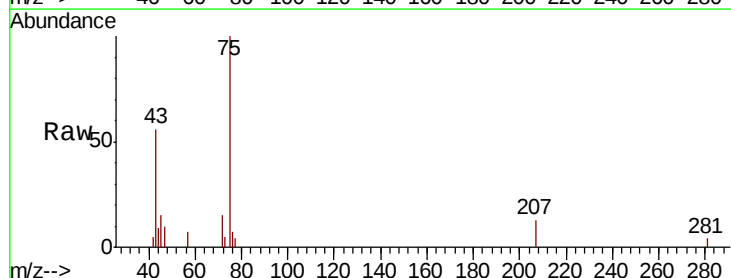
Instrument :
 MSVOA_V
 ClientSampled :

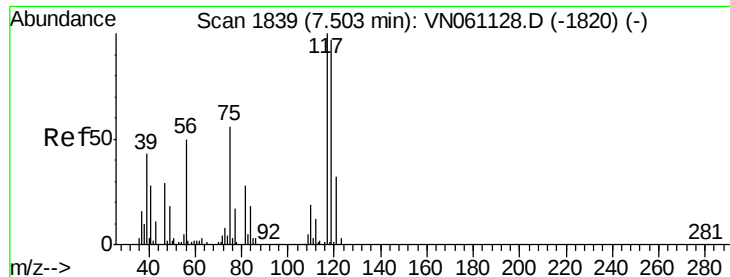
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.3	17.7	53.1#
77	0.0	24.8	37.2#



#37
 Ethyl Acetate
 Concen: 2.430 ug/l
 RT: 6.52 min Scan# 1532
 Delta R.T. -0.09 min
 Lab File: VN061147.D
 Acq: 22 Apr 2020 22:56

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.4	11.4	17.0#
70	0.0	8.2	12.4#





#38

Carbon Tetrachloride

Concen: 6.820 ug/l

RT: 7.40 min Scan# 1807

Delta R.T. -0.10 min

Lab File: VN061147.D

Acq: 22 Apr 2020 22:56

Instrument :

MSVOA_V

ClientSampleId :

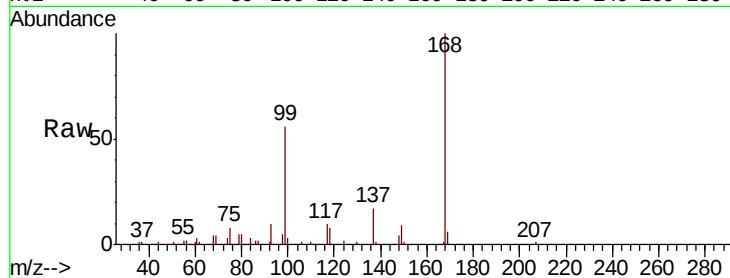
Tot Ion:117 Resp: 16828

Ion Ratio Lower Upper

117 100

119 5.0 76.9 115.3#

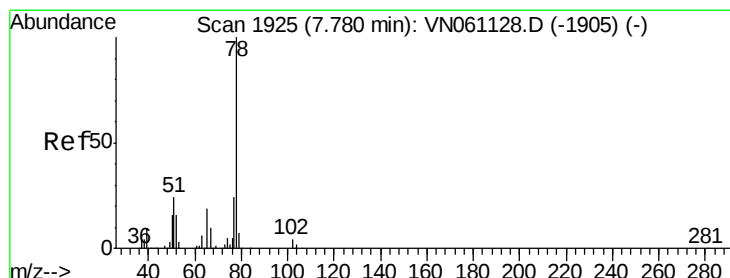
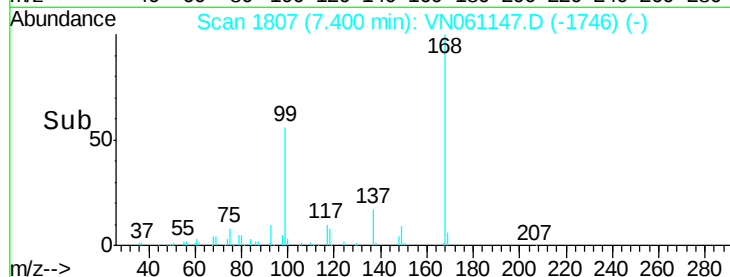
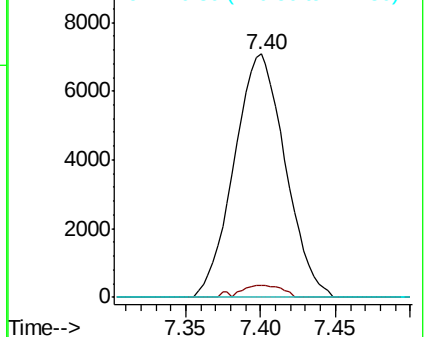
121 0.0 25.0 37.6#



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



#40

Benzene

Concen: 1.012 ug/l

RT: 7.78 min Scan# 1925

Delta R.T. 0.00 min

Lab File: VN061147.D

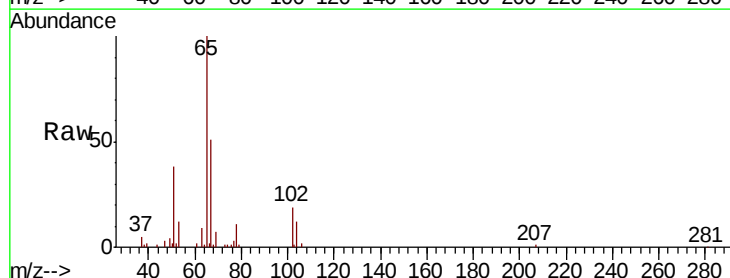
Acq: 22 Apr 2020 22:56

Tgt Ion: 78 Resp: 8448

Ion Ratio Lower Upper

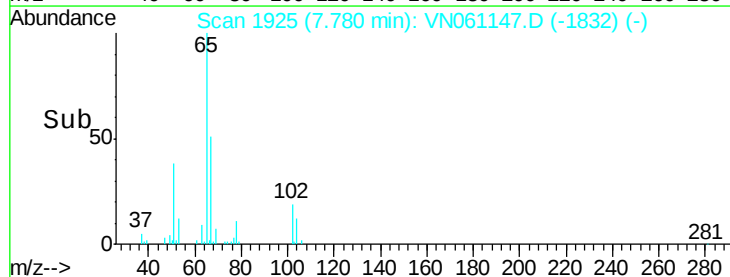
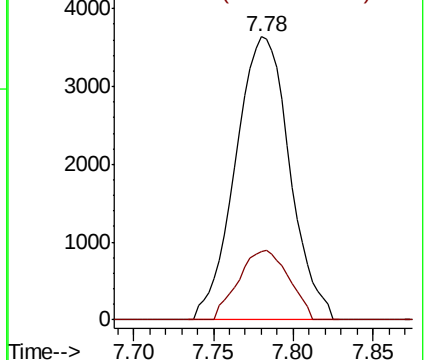
78 100

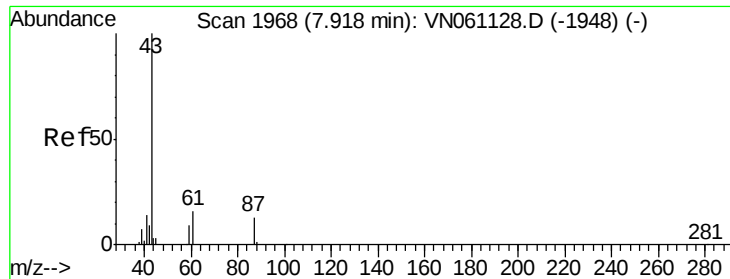
77 24.3 19.0 28.6



Abundance Ion 78.00 (77.70 to 78.70): V

Ion 77.00 (76.70 to 77.70): V

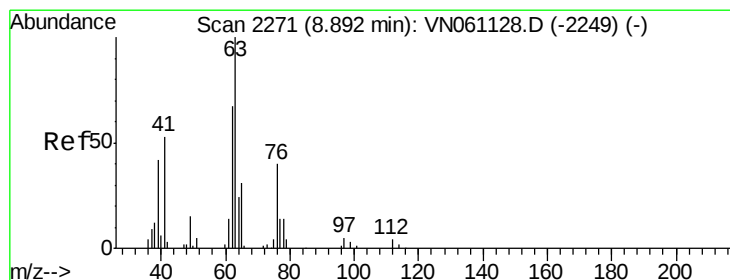
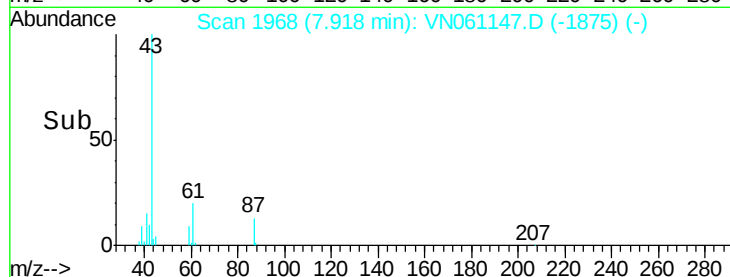
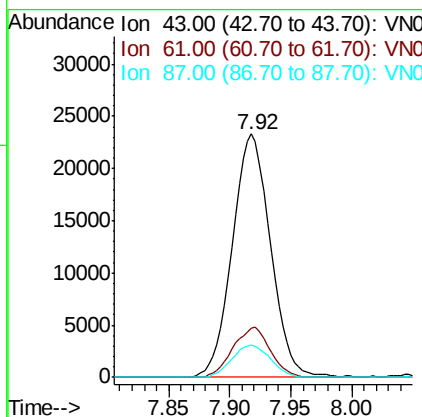
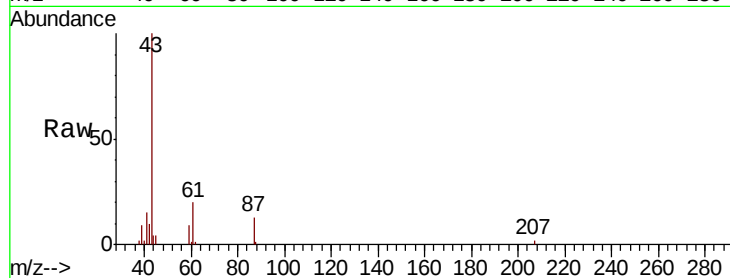




#43
Isopropyl Acetate
Concen: 10.521 ug/l
RT: 7.92 min Scan# 1968
Delta R.T. 0.00 min
Lab File: VN061147.D
Acq: 22 Apr 2020 22:56

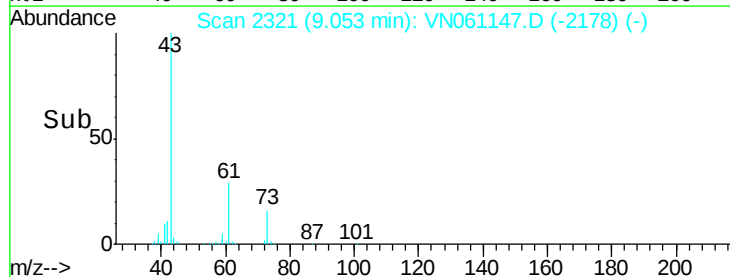
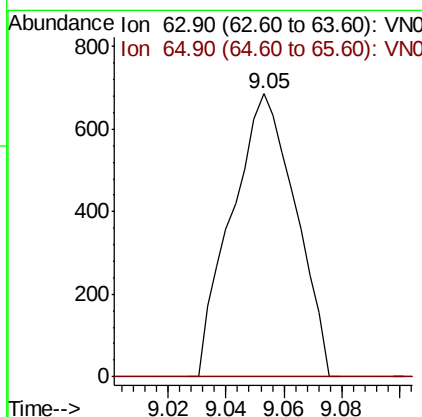
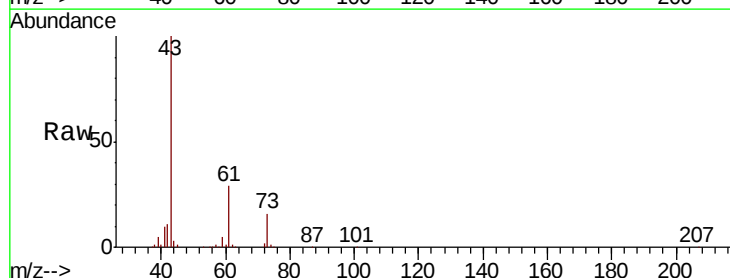
Instrument :
MSVOA_V
ClientSampled :

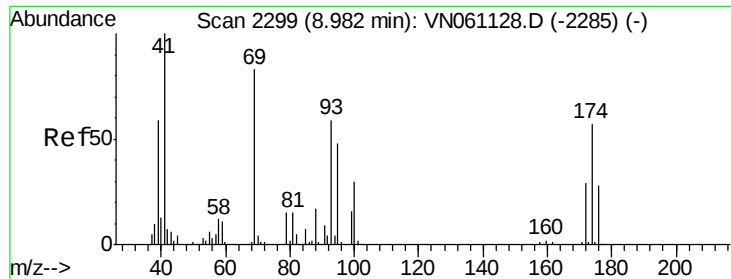
Tot Ion	Ratio	Lower	Upper
43	100		
61	20.0	15.5	23.3
87	13.2	10.2	15.4



#45
1,2-Dichloropropane
Concen: 0.474 ug/l
RT: 9.05 min Scan# 2321
Delta R.T. 0.16 min
Lab File: VN061147.D
Acq: 22 Apr 2020 22:56

Tgt Ion	Ratio	Lower	Upper
63	100		
65	0.0	24.7	37.1#

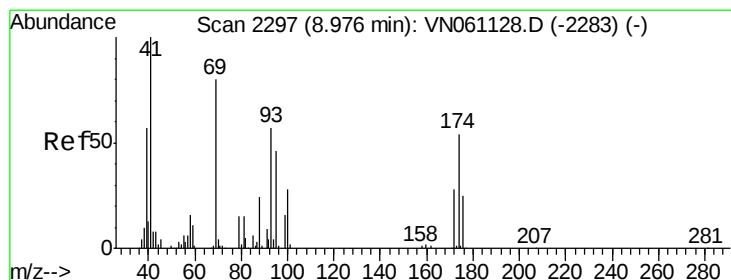
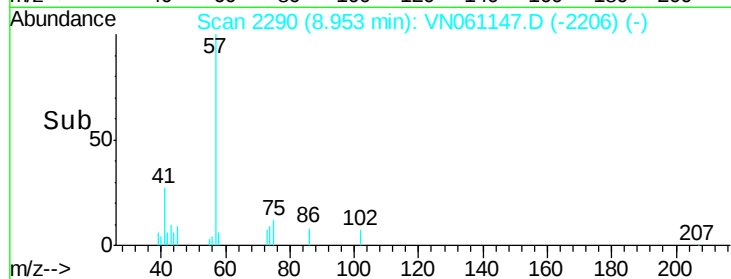
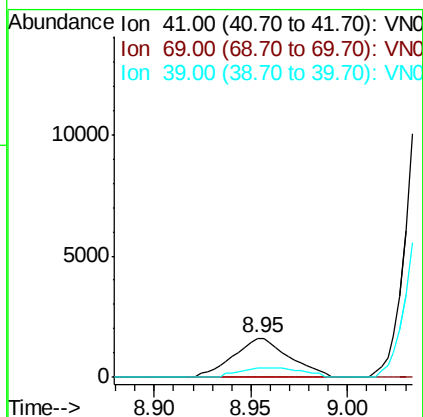
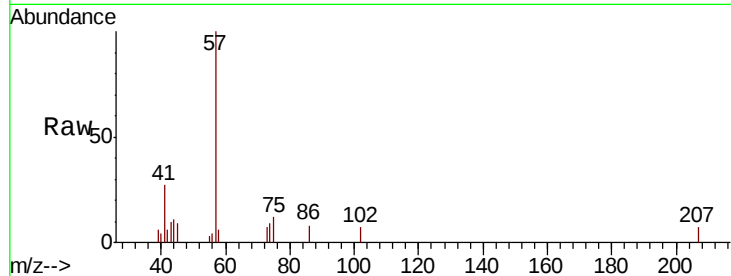




#48
Methvl methacrylate
Concen: 1.431 ug/l
RT: 8.95 min Scan# 2290
Delta R.T. -0.03 min
Lab File: VN061147.D
Acq: 22 Apr 2020 22:56

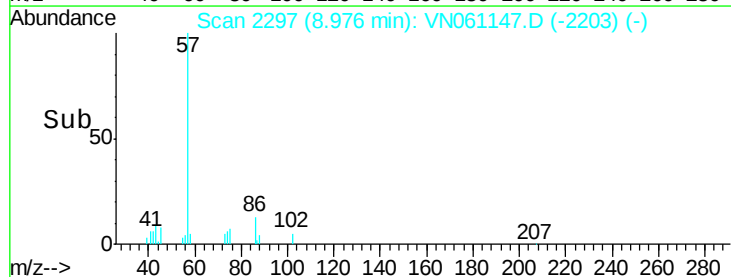
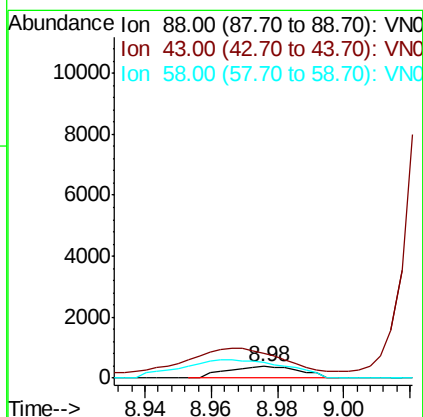
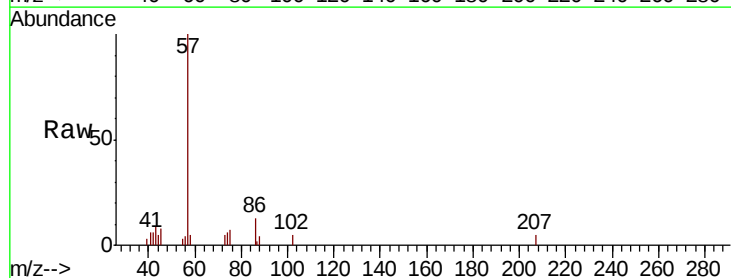
Instrument :
MSVOA_V
ClientSampleId :

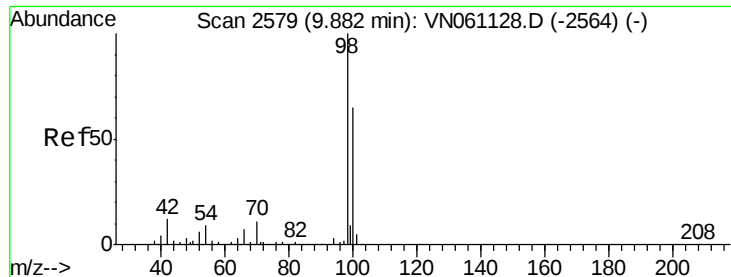
Tot Ion: 41 Resp: 3233
Ion Ratio Lower Upper
41 100
69 0.0 65.4 98.2#
39 0.0 47.8 71.6#



#49
1,4-Dioxane
Concen: Below Cal
RT: 8.98 min Scan# 2297
Delta R.T. 0.00 min
Lab File: VN061147.D
Acq: 22 Apr 2020 22:56

Tgt Ion: 88 Resp: 583
Ion Ratio Lower Upper
88 100
43 0.0 29.0 43.4#
58 226.2 57.8 86.6#

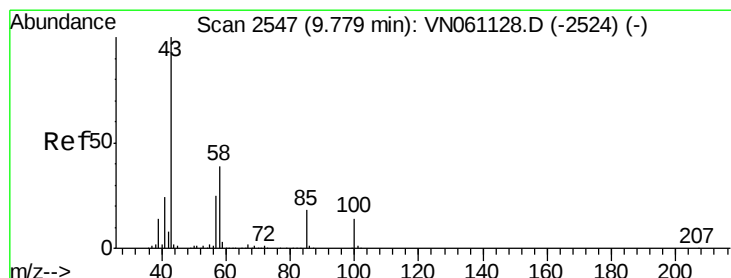
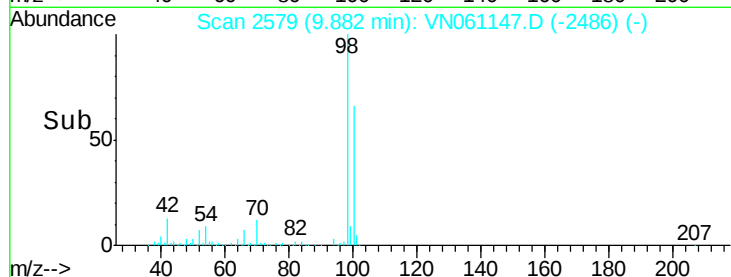
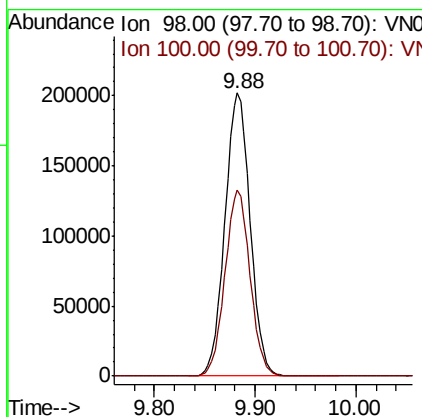
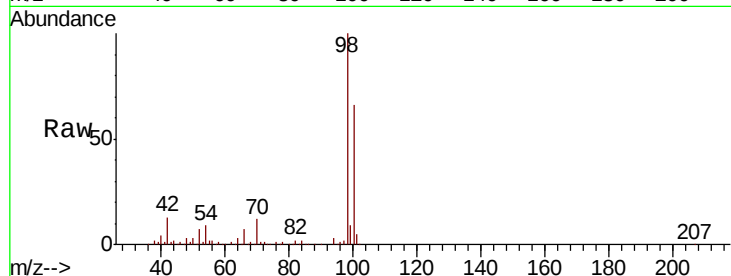




#50
Toluene-d8
Concen: 50.050 ug/l
RT: 9.88 min Scan# 2579
Delta R.T. 0.00 min
Lab File: VN061147.D
Acq: 22 Apr 2020 22:56

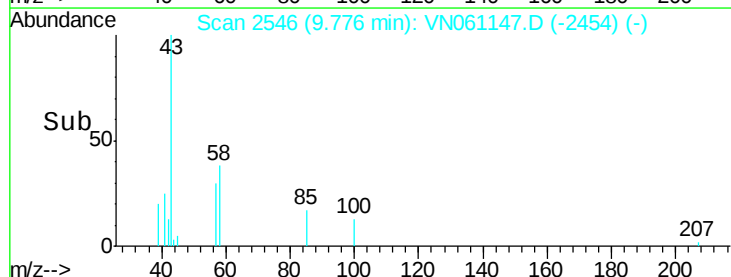
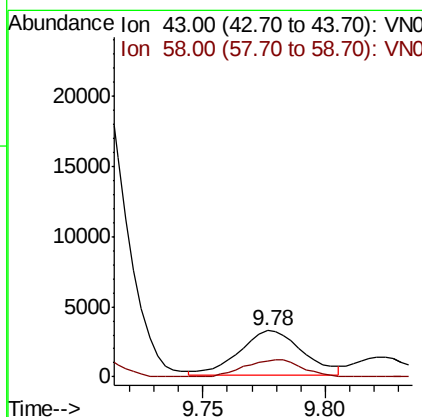
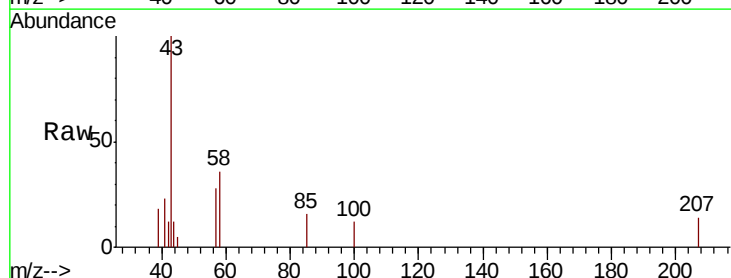
Instrument :
MSVOA_V
ClientSampleId :

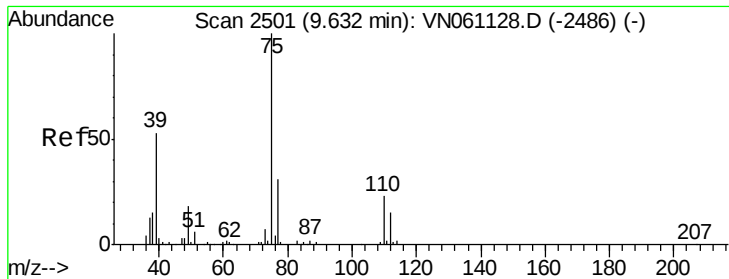
Tot Ion: 98 Resp: 352987
Ion Ratio Lower Upper
98 100
100 65.2 51.8 77.6



#51
4-Methyl-2-Pentanone
Concen: 2.010 ug/l
RT: 9.78 min Scan# 2546
Delta R.T. -0.00 min
Lab File: VN061147.D
Acq: 22 Apr 2020 22:56

Tgt Ion: 43 Resp: 5630
Ion Ratio Lower Upper
43 100
58 35.7 31.0 46.6



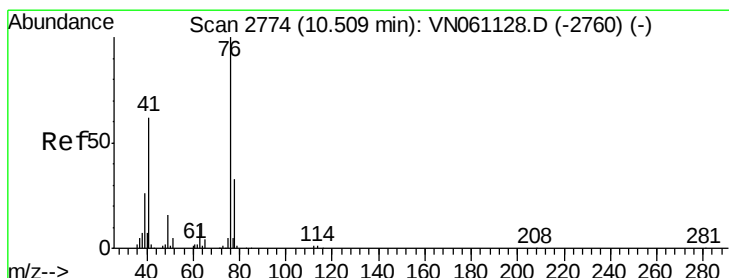
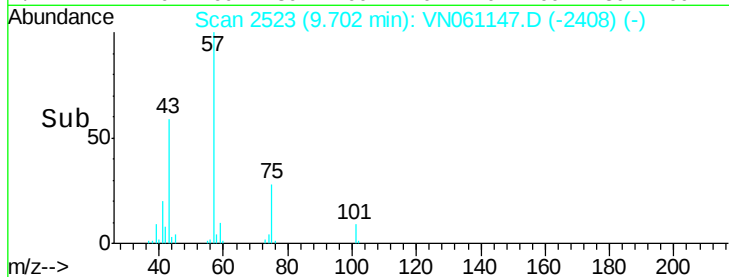
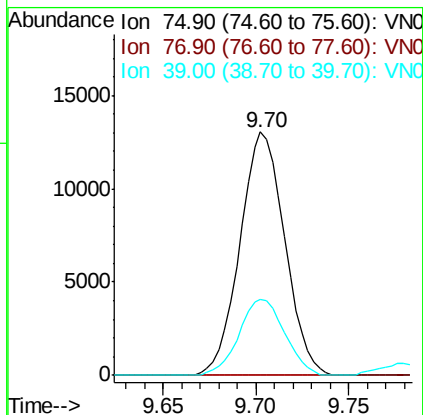
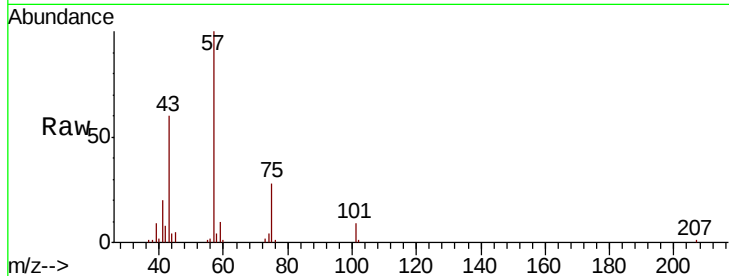


#54

cis-1,3-Dichloropropene
 Concen: 6.165 ug/l
 RT: 9.70 min Scan# 2523
 Delta R.T. 0.07 min
 Lab File: VN061147.D
 Acq: 22 Apr 2020 22:56

Instrument :
 MSVOA_V
 ClientSampleId :

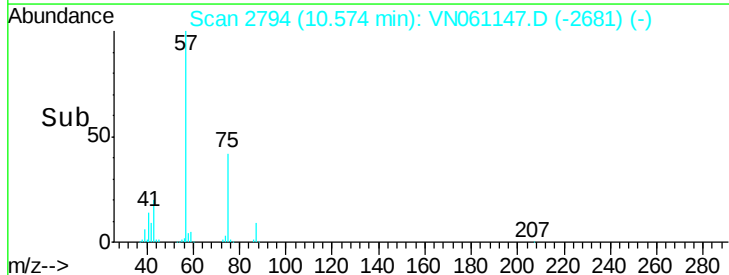
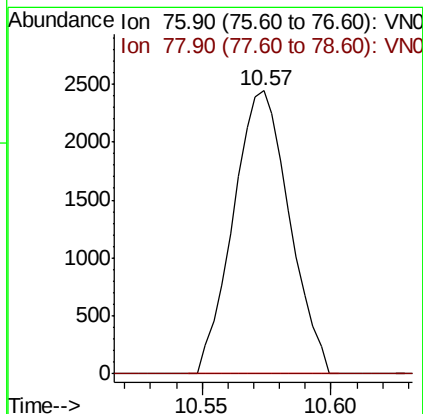
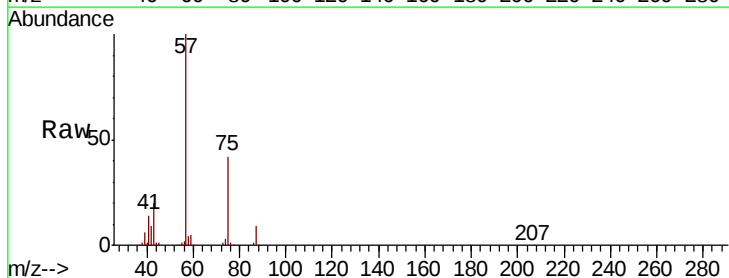
Tot Ion	Ratio	Lower	Upper
75	100		
77	0.0	25.2	37.8#
39	31.3	42.1	63.1#

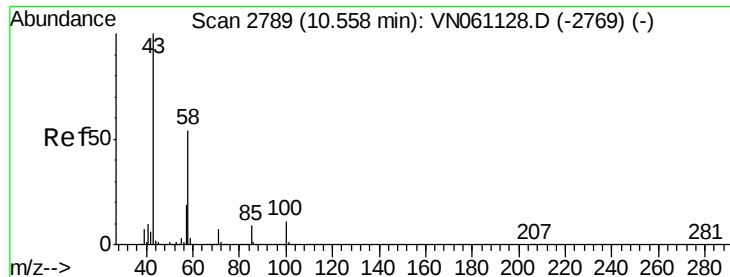


#57

1,3-Dichloropropane
 Concen: 1.081 ug/l
 RT: 10.57 min Scan# 2794
 Delta R.T. 0.06 min
 Lab File: VN061147.D
 Acq: 22 Apr 2020 22:56

Tgt Ion	Ratio	Lower	Upper
76	100		
78	0.0	26.1	39.1#

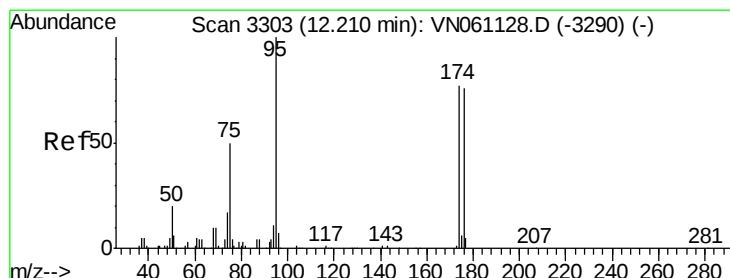
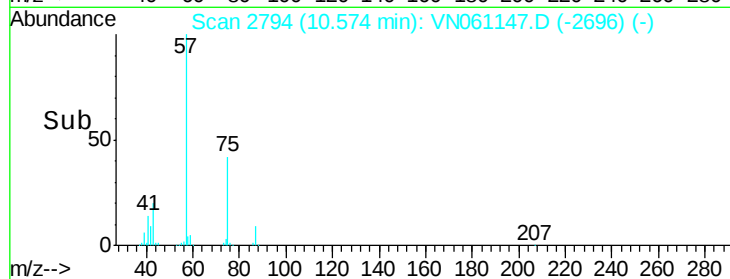
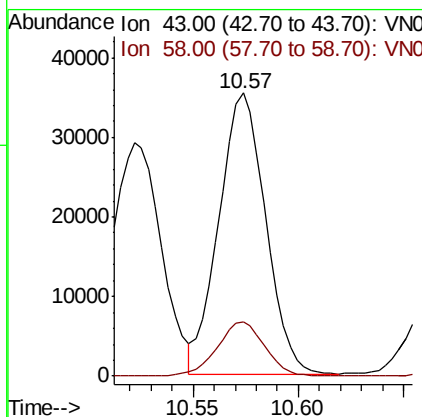
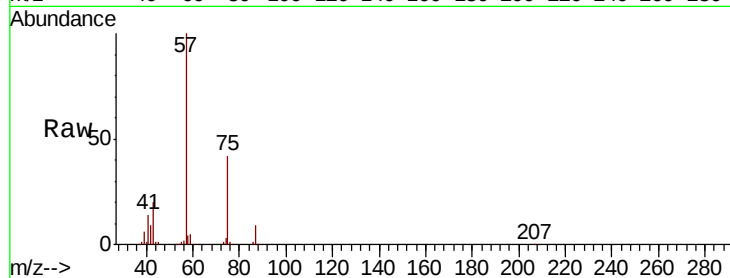




#59
2-Hexanone
Concen: 26.286 ug/l
RT: 10.57 min Scan# 2794
Delta R.T. 0.02 min
Lab File: VN061147.D
Acq: 22 Apr 2020 22:56

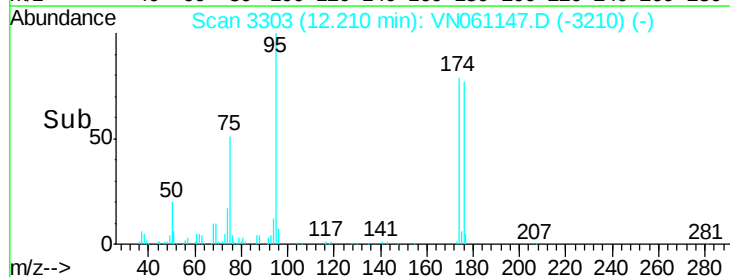
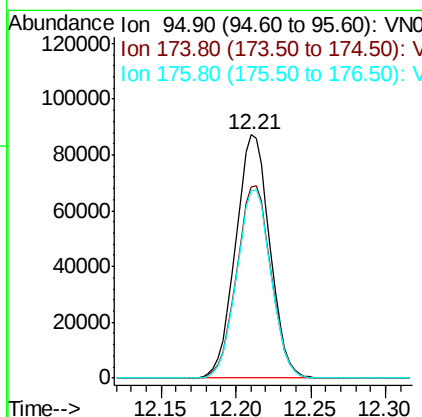
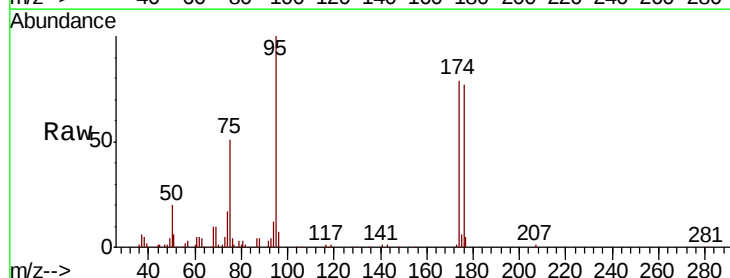
Instrument :
MSVOA_V
ClientSampleId :

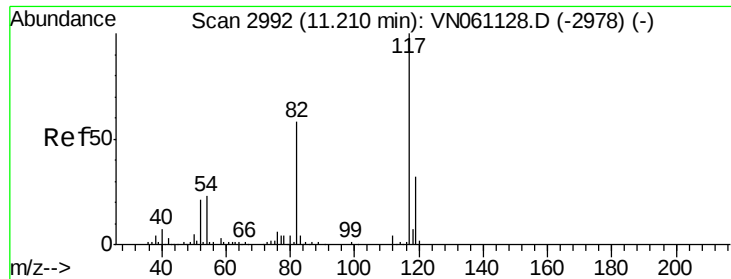
Tot Ion: 43 Resp: 54380
Ion Ratio Lower Upper
43 100
58 19.6 26.9 80.6#



#62
4-Bromofluorobenzene
Concen: 52.613 ug/l
RT: 12.21 min Scan# 3303
Delta R.T. 0.00 min
Lab File: VN061147.D
Acq: 22 Apr 2020 22:56

Tgt Ion: 95 Resp: 138969
Ion Ratio Lower Upper
95 100
174 79.4 0.0 157.6
176 77.6 0.0 154.4

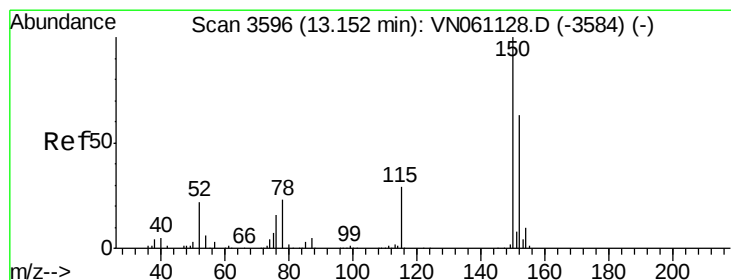
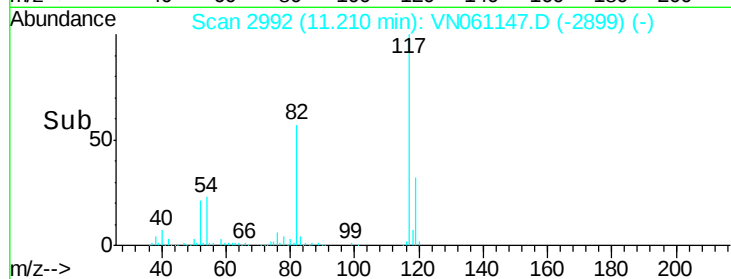
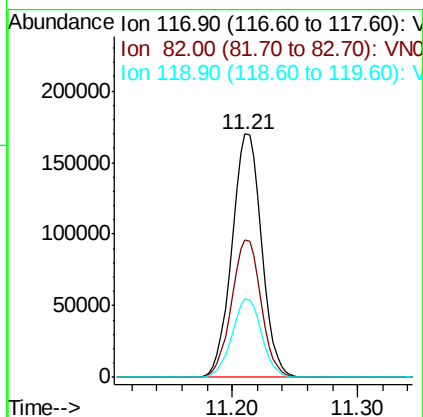
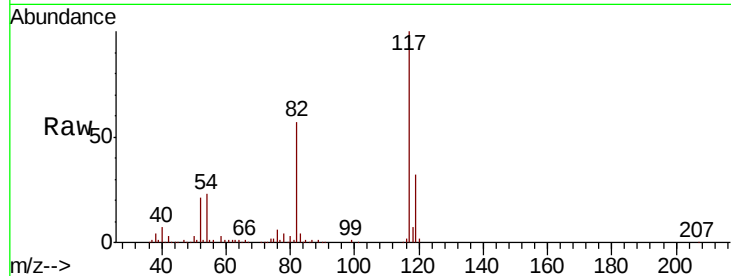




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.21 min Scan# 2992
Delta R.T. 0.00 min
Lab File: VN061147.D
Acq: 22 Apr 2020 22:56

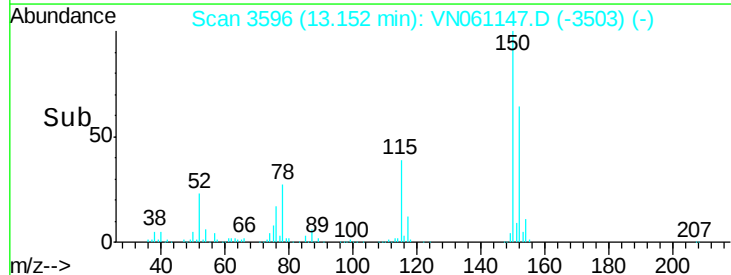
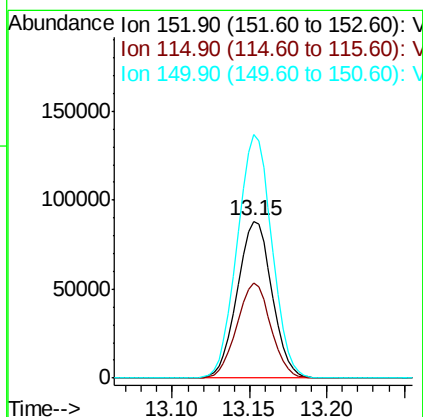
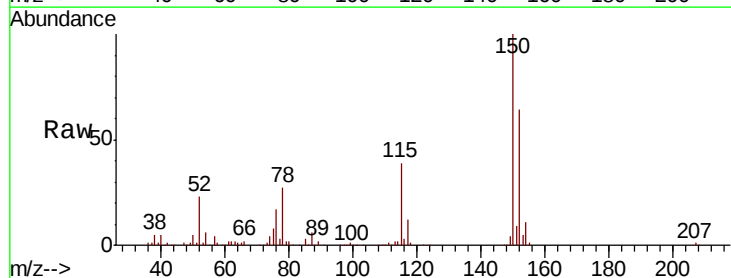
Instrument :
MSVOA_V
ClientSampleId :

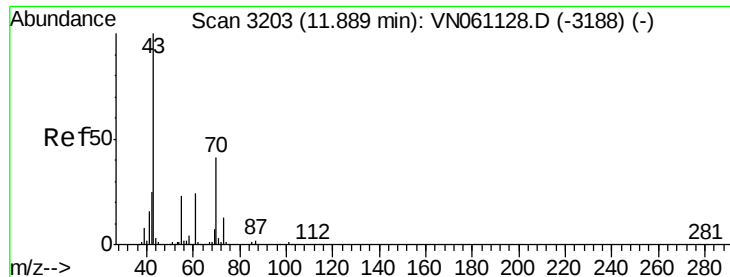
Tot Ion	Ratio	Lower	Upper
117	100		
82	56.6	46.0	69.0
119	32.0	25.9	38.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.15 min Scan# 3596
Delta R.T. 0.00 min
Lab File: VN061147.D
Acq: 22 Apr 2020 22:56

Tgt Ion	Ratio	Lower	Upper
152	100		
115	59.5	29.8	89.5
150	155.9	0.0	348.6





#74

N-amvl acetate

Concen: 0.545 ug/l

RT: 11.84 min Scan# 3188

Delta R.T. -0.05 min

Lab File: VN061147.D

Acq: 22 Apr 2020 22:56

Instrument :

MSVOA_V

ClientSampled :

Tot Ion: 43 Resp: 2543

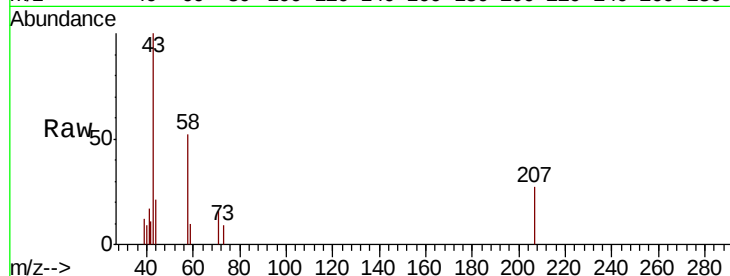
Ion Ratio Lower Upper

43 100

70 0.0 32.5 48.7#

55 0.0 19.0 28.6#

61 0.0 19.3 28.9#

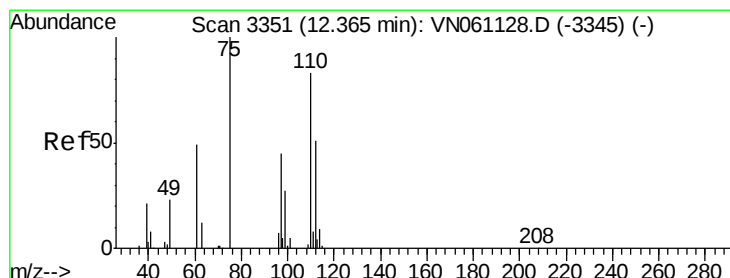
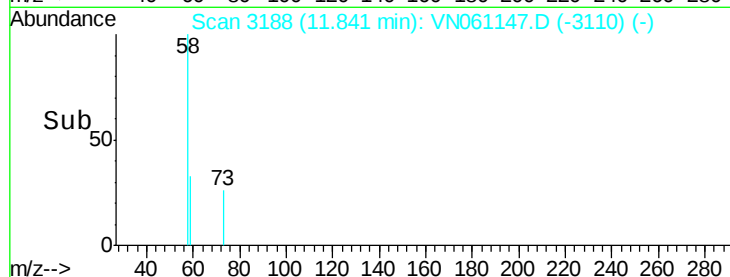
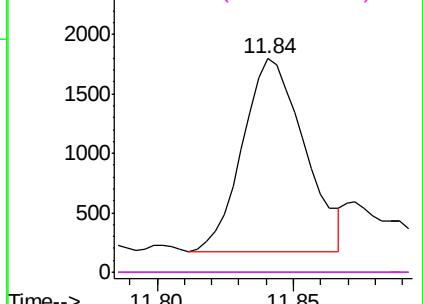


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 22.495 ug/l

RT: 12.21 min Scan# 3303

Delta R.T. -0.15 min

Lab File: VN061147.D

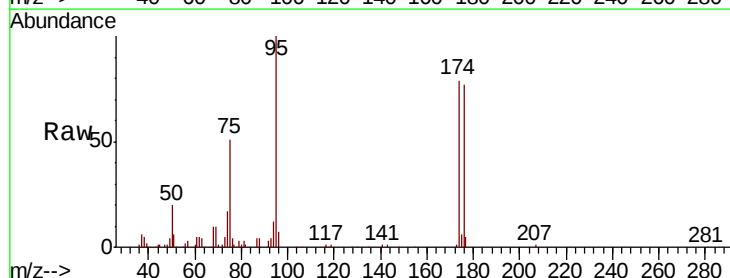
Acq: 22 Apr 2020 22:56

Tgt Ion: 75 Resp: 71278

Ion Ratio Lower Upper

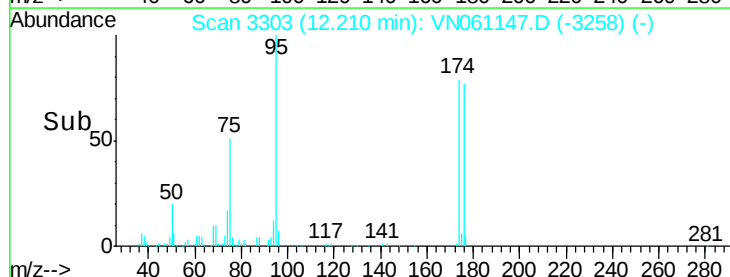
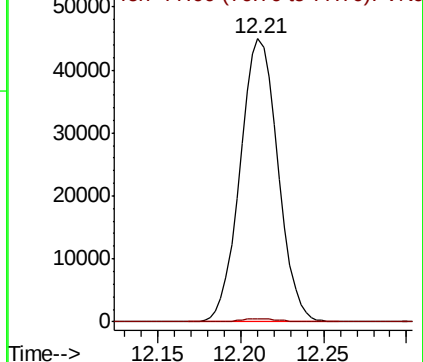
75 100

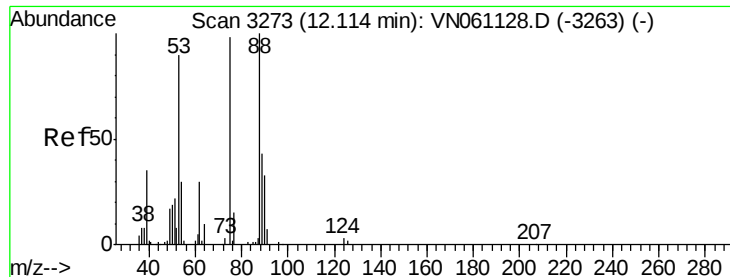
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 59.077 ug/l

RT: 12.21 min Scan# 3303

Delta R.T. 0.10 min

Lab File: VN061147.D

Acq: 22 Apr 2020 22:56

Instrument :

MSVOA_V

ClientSampleId :

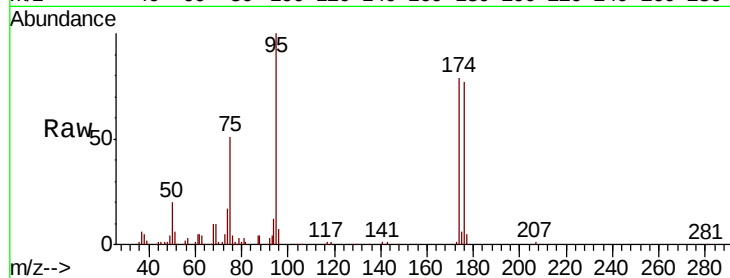
Tot Ion: 75 Resp: 71278

Ion Ratio Lower Upper

75 100

53 0.0 74.3 111.5#

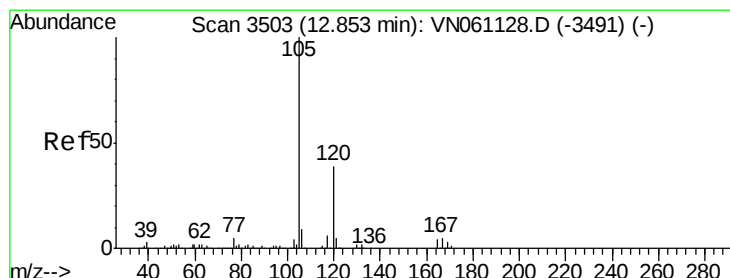
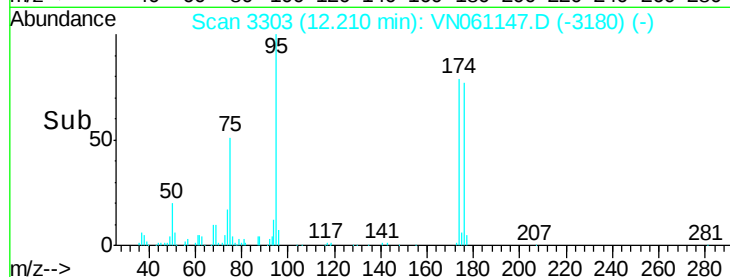
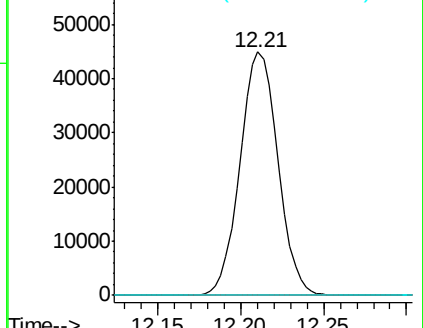
89 0.0 36.6 55.0#



Abundance Ion 74.90 (74.60 to 75.60): VN061147.D (-3180) (-)

Ion 53.00 (52.70 to 53.70): VN061147.D (-3180) (-)

Ion 88.90 (88.60 to 89.60): VN061147.D (-3180) (-)



#84

1,2,4-Trimethylbenzene

Concen: 0.286 ug/l

RT: 12.85 min Scan# 3503

Delta R.T. 0.00 min

Lab File: VN061147.D

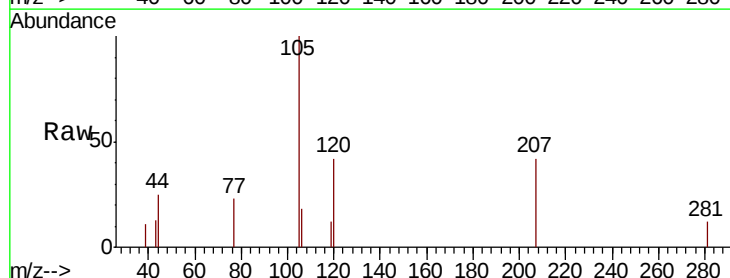
Acq: 22 Apr 2020 22:56

Tgt Ion: 105 Resp: 2494

Ion Ratio Lower Upper

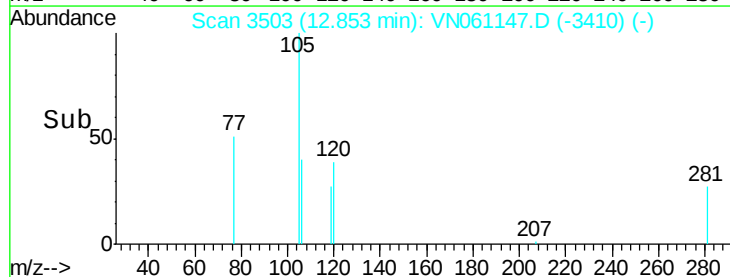
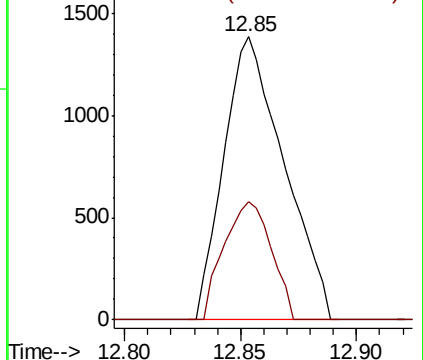
105 100

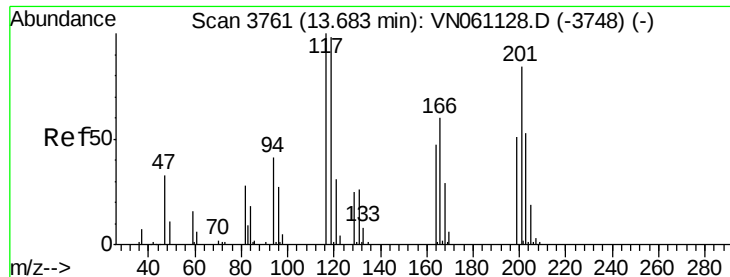
120 33.0 22.4 67.0



Abundance Ion 105.00 (104.70 to 105.70): VN061147.D (-3410) (-)

Ion 120.00 (119.70 to 120.70): VN061147.D (-3410) (-)





#90

Hexachloroethane

Concen: 4.619 ug/l

RT: 13.75 min Scan# 3783

Delta R.T. 0.07 min

Lab File: VN061147.D

Acq: 22 Apr 2020 22:56

Instrument :

MSVOA_V

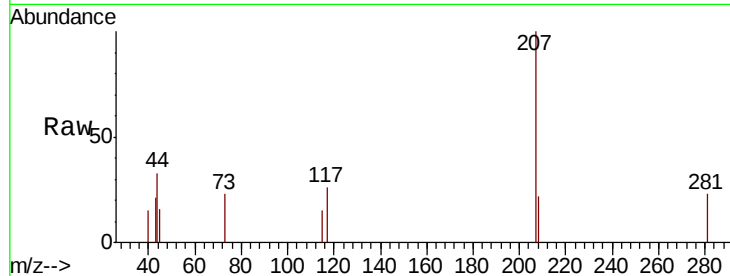
ClientSampleId :

Tot Ion:117 Resp: 331

Ion Ratio Lower Upper

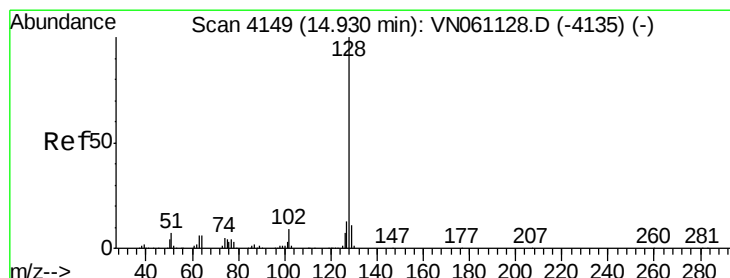
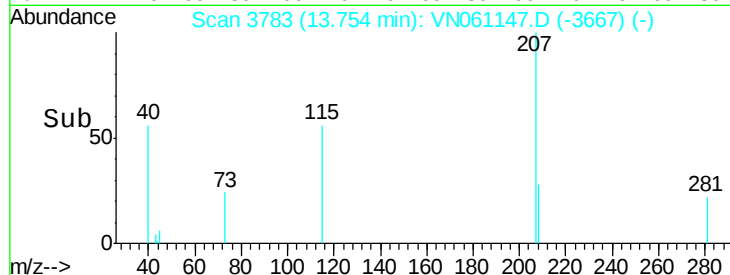
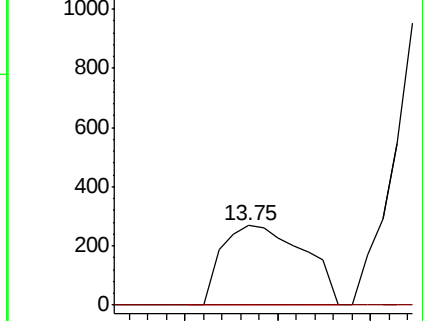
117 100

201 0.0 41.4 124.4#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#95

Naphthalene

Concen: 50.152 ug/l

RT: 14.93 min Scan# 4149

Delta R.T. 0.00 min

Lab File: VN061147.D

Acq: 22 Apr 2020 22:56

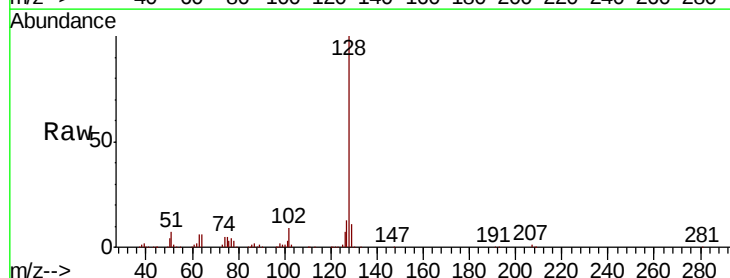
Tgt Ion:128 Resp: 431798

Ion Ratio Lower Upper

128 100

127 12.9 10.2 15.4

129 10.7 8.6 12.8



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

