

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060120\
 Data File : VN061602.D
 Acq On : 1 Jun 2020 18:06
 Operator : JC/MD
 Sample : L2814-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PL-02-052920

Quant Time: Jun 02 03:56:20 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052820W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 29 02:14:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	280703	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	503510	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	517092	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	234122	50.00	ug/l	0.00

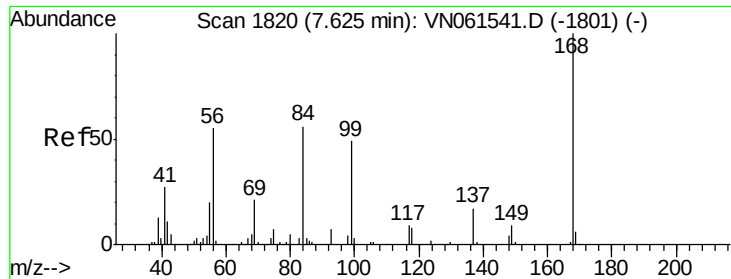
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	175429	52.45	ug/l	0.00
Spiked Amount						
			Recovery	=	104.90%	
35) Dibromofluoromethane	7.55	113	143643	56.24	ug/l	0.00
Spiked Amount						
			Recovery	=	112.48%	
50) Toluene-d8	10.06	98	631914	53.39	ug/l	0.00
Spiked Amount						
			Recovery	=	106.78%	
62) 4-Bromofluorobenzene	12.38	95	233840	54.15	ug/l	0.00
Spiked Amount						
			Recovery	=	108.30%	

Target Compounds

					Qvalue	
16) Acetone	3.78	43	20168	16.079	ug/l	95
18) Methyl Acetate	4.28	43	989	0.327	ug/l #	74
20) Methylene Chloride	4.51	84	14233	3.049	ug/l	93
25) 2-Butanone	6.79	43	3494	2.204	ug/l	93
29) Tetrahydrofuran	7.17	42	1064	1.018	ug/l #	38
31) Cyclohexane	7.62	56	5228	1.109	ug/l #	1
36) 1,1-Dichloropropene	7.62	75	20991	4.709	ug/l #	47
38) Carbon Tetrachloride	7.63	117	28163	6.550	ug/l #	16
43) Isopropyl Acetate	8.13	43	61178	9.472	ug/l #	90
45) 1,2-Dichloropropane	9.24	63	1365	0.418	ug/l #	44
48) Methyl methacrylate	9.15	41	3295	1.134	ug/l #	5
51) 4-Methyl-2-Pentanone	9.95	43	7199	1.978	ug/l	97
54) cis-1,3-Dichloropropene	9.87	75	32541	5.661	ug/l #	62
57) 1,3-Dichloropropane	10.74	76	5192	0.908	ug/l #	42
59) 2-Hexanone	10.74	43	56315	21.543	ug/l #	49
71) Bromoform	12.37	173	1059	0.343	ug/l #	1
74) N-amyl acetate	12.01	43	2729	0.507	ug/l #	38
76) 1,2,3-Trichloropropane	12.38	75	116170	27.288	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	116170	69.782	ug/l #	15
95) Naphthalene	15.10	128	21459	1.633	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN061602.D

Acq: 1 Jun 2020 18:06

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ClientSampleId :

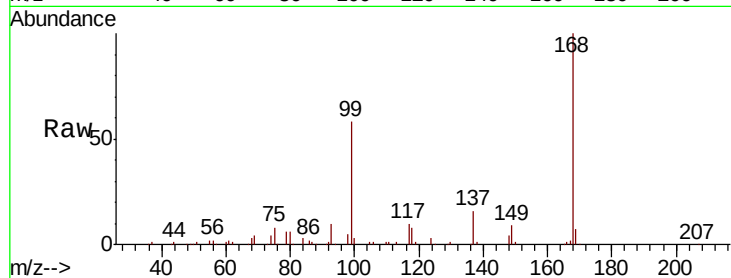
PL-02-052920

Tot Ion:168 Resp: 280703

Ion Ratio Lower Upper

168 100

99 58.3 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

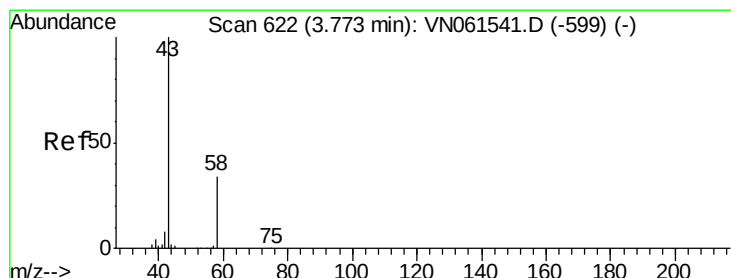
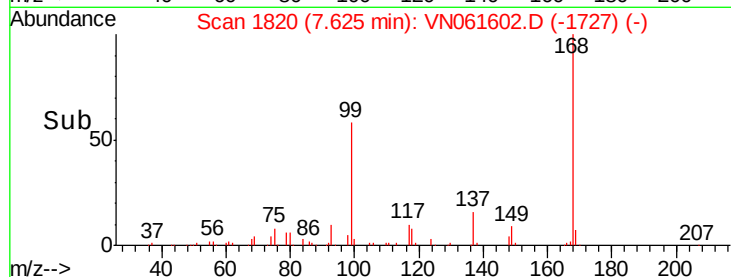
7.63

100000

50000

0

Time--> 7.50 7.60 7.70



#16

Acetone

Concen: 16.079 ug/l

RT: 3.78 min Scan# 623

Delta R.T. 0.00 min

Lab File: VN061602.D

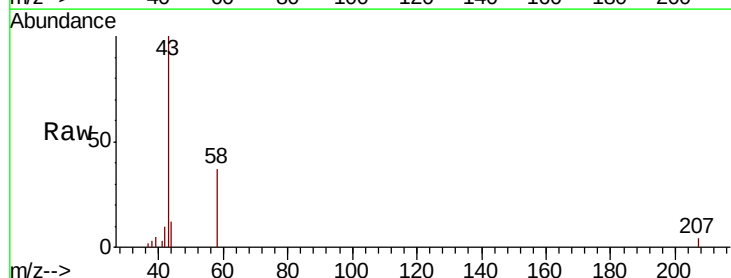
Acq: 1 Jun 2020 18:06

Tgt Ion: 43 Resp: 20168

Ion Ratio Lower Upper

43 100

58 37.0 27.2 40.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.78

8000

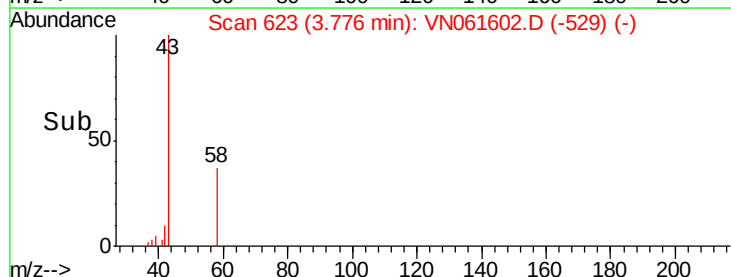
6000

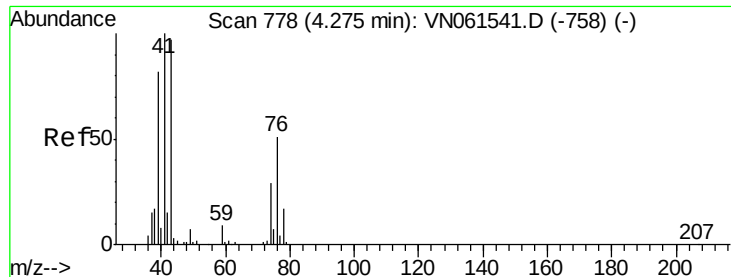
4000

2000

0

Time--> 3.70 3.80 3.90

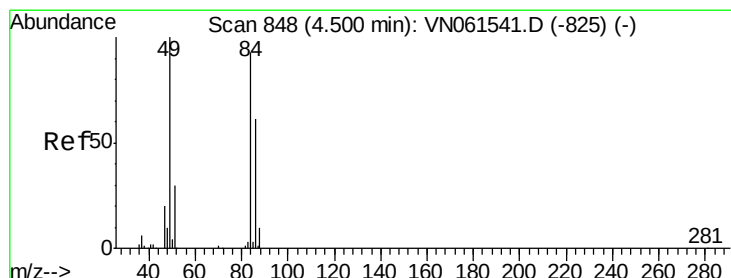
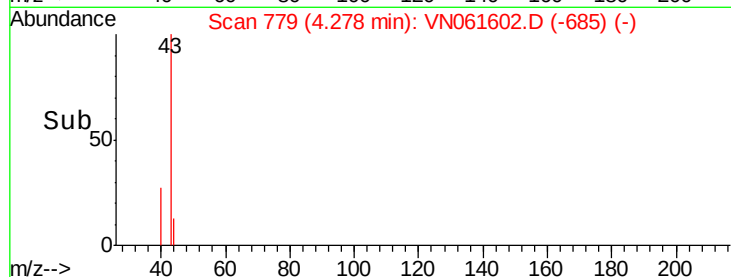
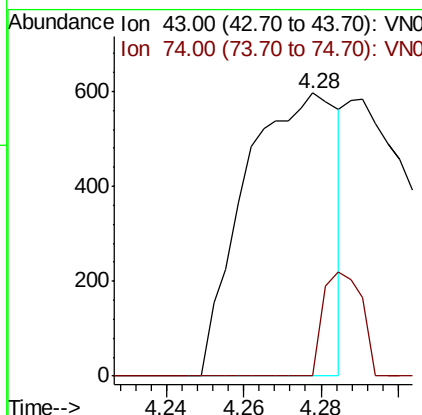
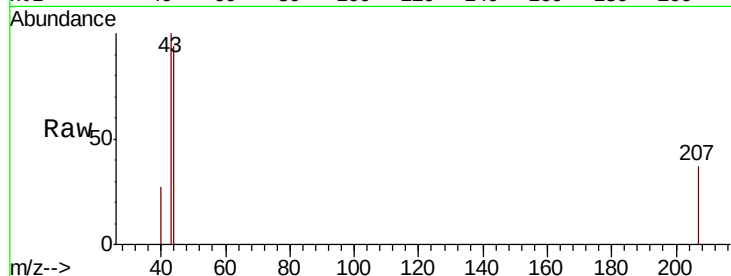




#18
Methvl Acetate
Concen: 0.327 ug/l
RT: 4.28 min Scan# 779
Delta R.T. 0.00 min
Lab File: VN061602.D
Acq: 1 Jun 2020 18:06

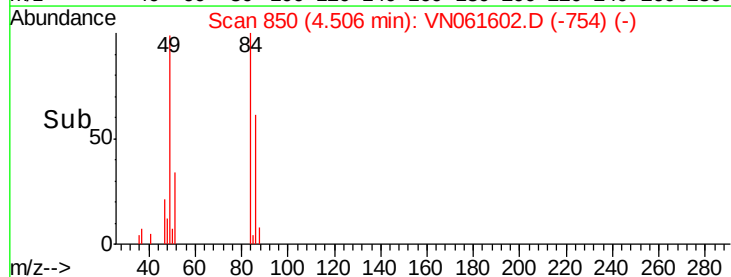
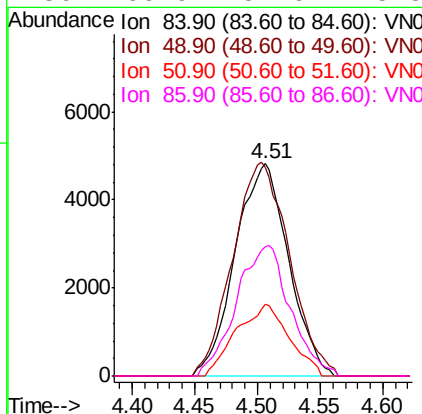
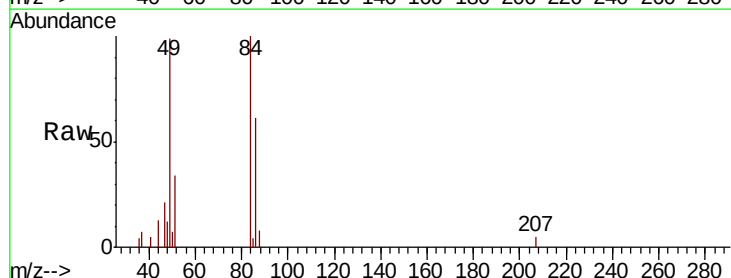
Instrument :
MSVOA_N
ClientSampleId :
PL-02-052920

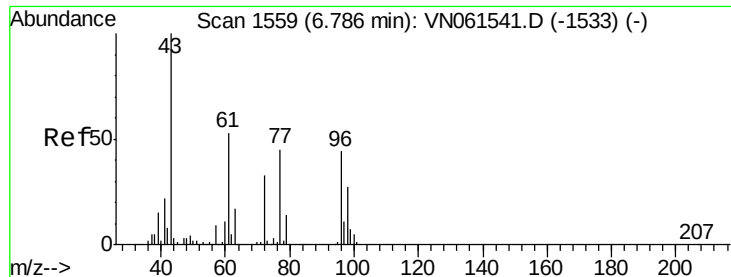
Tot Ion: 43 Resp: 989
Ion Ratio Lower Upper
43 100
74 15.2 23.2 34.8#



#20
Methylene Chloride
Concen: 3.049 ug/l
RT: 4.51 min Scan# 850
Delta R.T. 0.01 min
Lab File: VN061602.D
Acq: 1 Jun 2020 18:06

Tgt Ion: 84 Resp: 14233
Ion Ratio Lower Upper
84 100
49 98.6 85.8 128.8
51 33.8 26.2 39.2
86 60.9 52.6 78.8





#25

2-Butanone

Concen: 2.204 ug/l

RT: 6.79 min Scan# 1561

Delta R.T. 0.01 min

Lab File: VN061602.D

Acq: 1 Jun 2020 18:06

Instrument :

MSVOA_N

ClientSampleId :

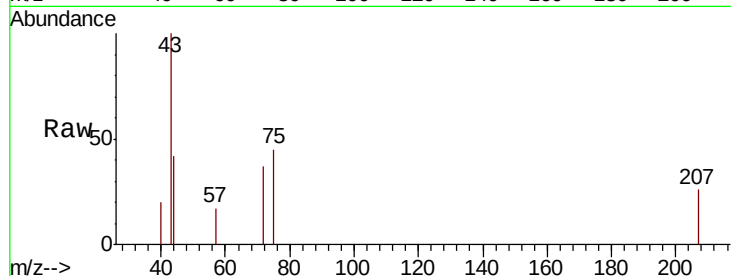
PL-02-052920

Tot Ion: 43 Resp: 3494

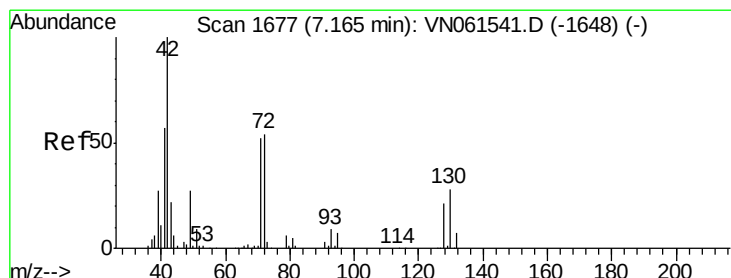
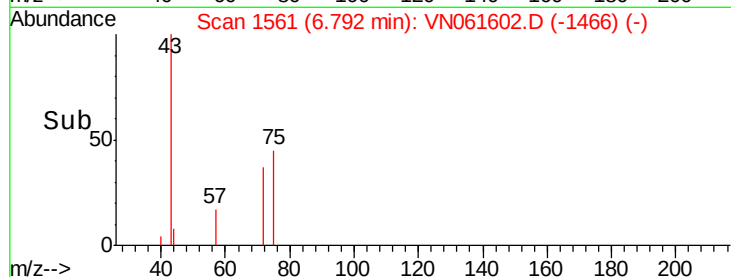
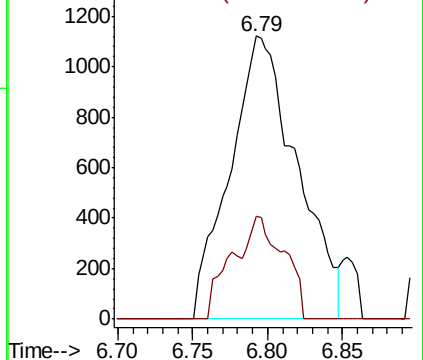
Ion Ratio Lower Upper

43 100

72 36.5 26.0 39.0



Abundance Ion 43.00 (42.70 to 43.70): VN061541.D (-1533) (-)



#29

Tetrahydrofuran

Concen: 1.018 ug/l

RT: 7.17 min Scan# 1680

Delta R.T. 0.01 min

Lab File: VN061602.D

Acq: 1 Jun 2020 18:06

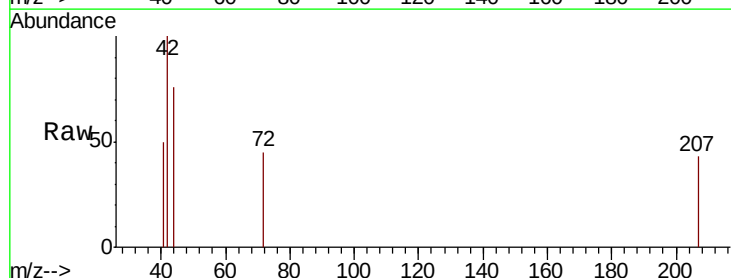
Tgt Ion: 42 Resp: 1064

Ion Ratio Lower Upper

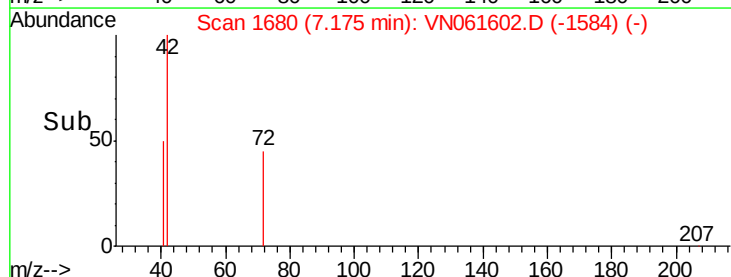
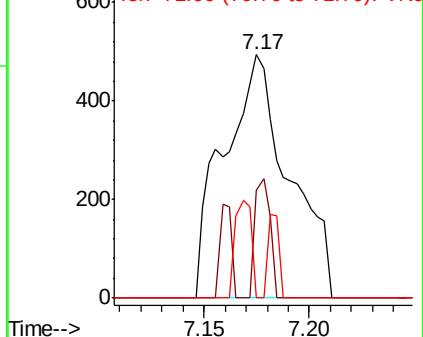
42 100

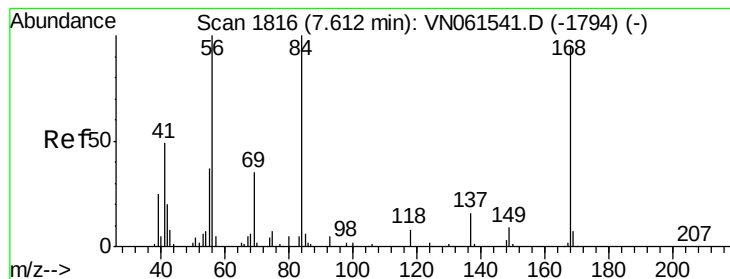
72 11.4 43.6 65.4#

71 6.1 41.2 61.8#



Abundance Ion 42.00 (41.70 to 42.70): VN061541.D (-1648) (-)





#31

Cyclohexane

Concen: 1.109 ug/l

RT: 7.62 min Scan# 1816

Delta R.T. 0.01 min

Lab File: VN061602.D

Acq: 1 Jun 2020 18:06

Instrument :

MSVOA_N

ClientSampleId :

PL-02-052920

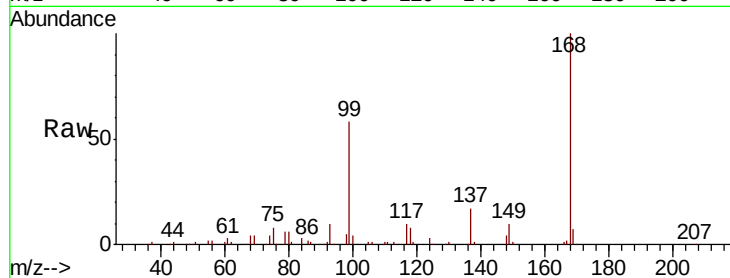
Tot Ion: 56 Resp: 5228

Ion Ratio Lower Upper

56 100

69 193.6 27.8 41.8#

84 151.9 79.9 119.9#

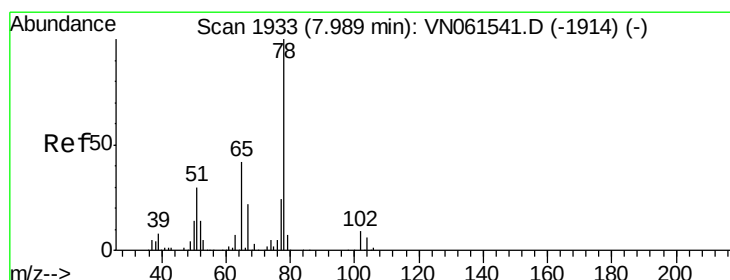
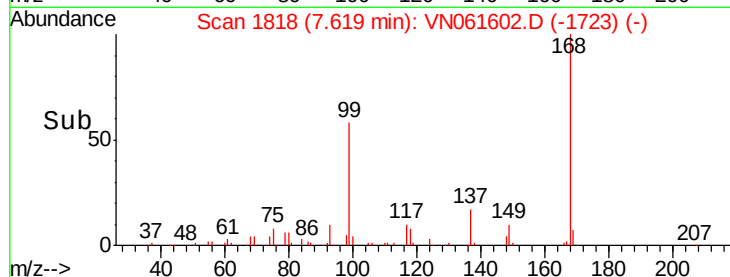
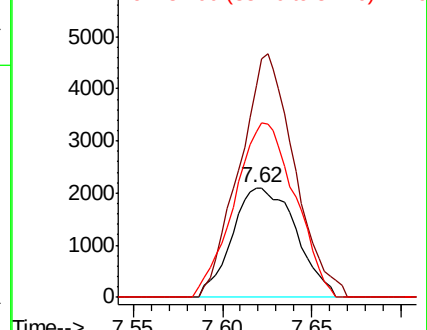


Abundance

Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 52.455 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. -0.00 min

Lab File: VN061602.D

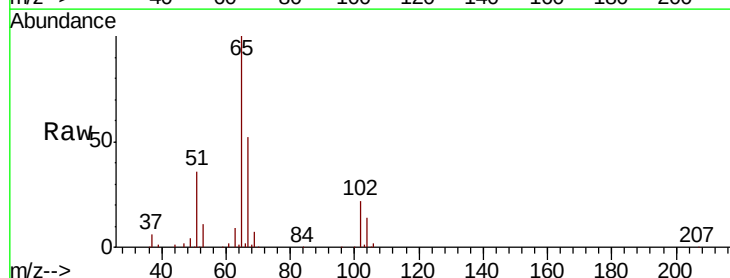
Acq: 1 Jun 2020 18:06

Tgt Ion: 65 Resp: 175429

Ion Ratio Lower Upper

65 100

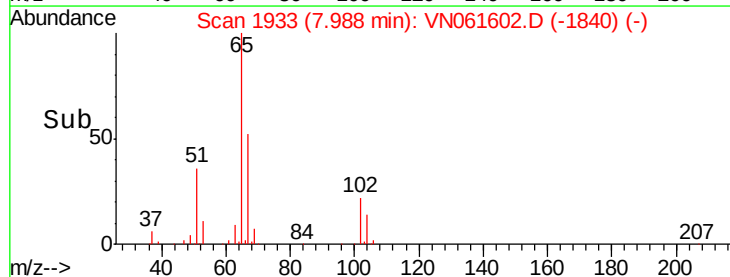
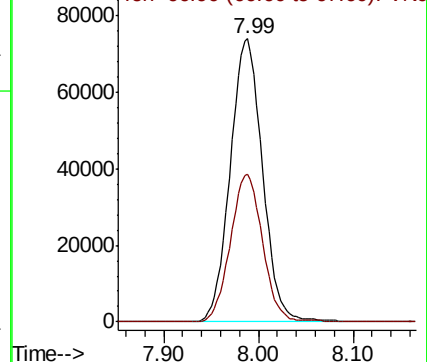
67 51.6 0.0 104.8

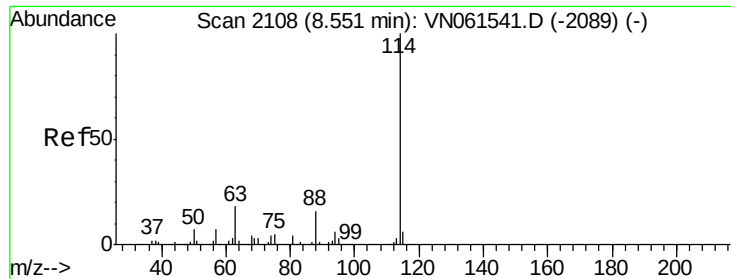


Abundance

Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

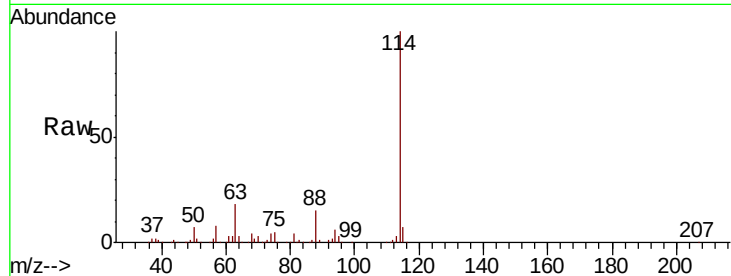




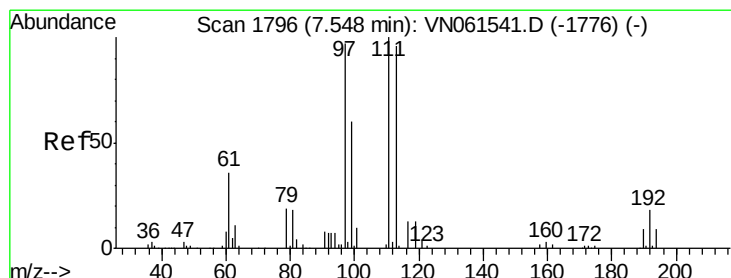
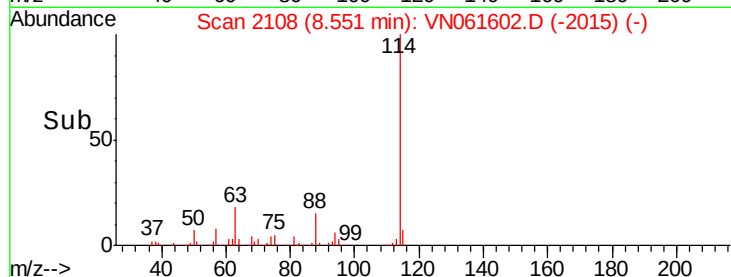
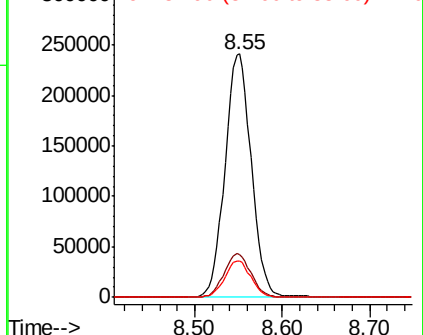
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN061602.D
 Acq: 1 Jun 2020 18:06

Instrument :
 MSVOA_N
 ClientSampleId :
 PL-02-052920

Tot Ion	Ratio	Lower	Upper
114	100		
63	17.5	0.0	35.8
88	15.0	0.0	31.0

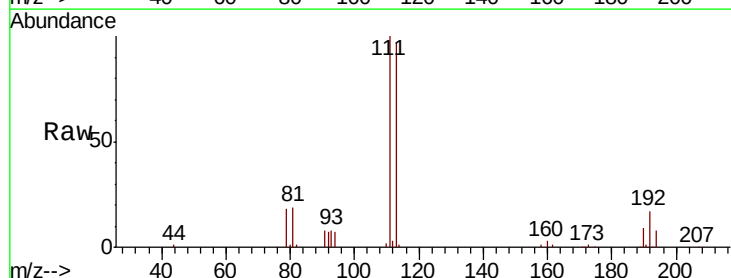


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

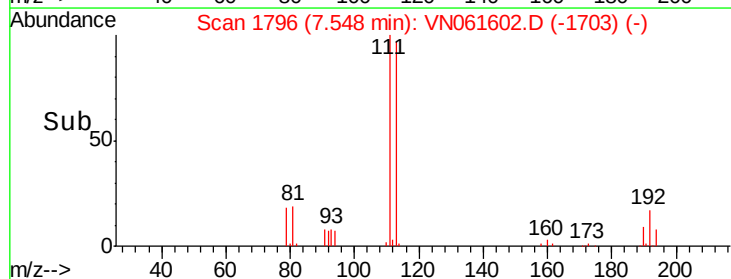
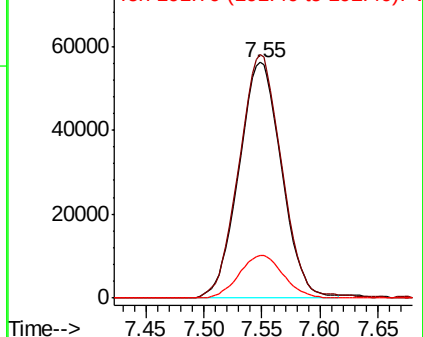


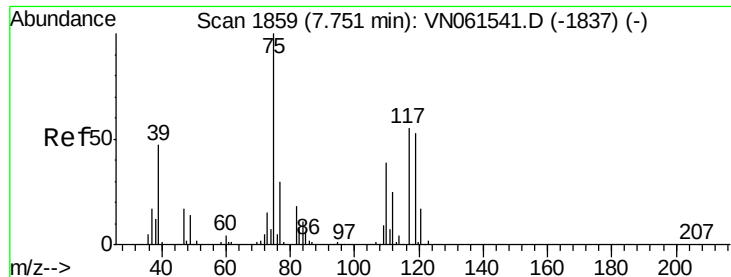
#35
 Dibromofluoromethane
 Concen: 56.238 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. -0.00 min
 Lab File: VN061602.D
 Acq: 1 Jun 2020 18:06

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.6	83.4	125.0
192	18.9	15.4	23.2



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

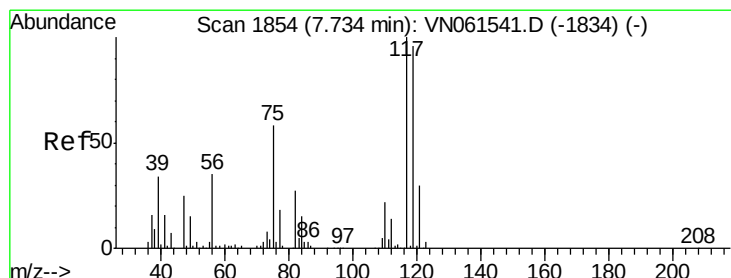
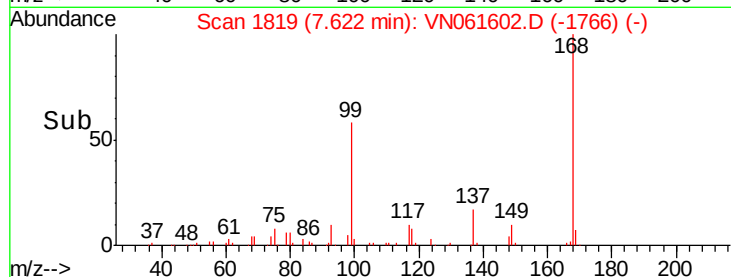
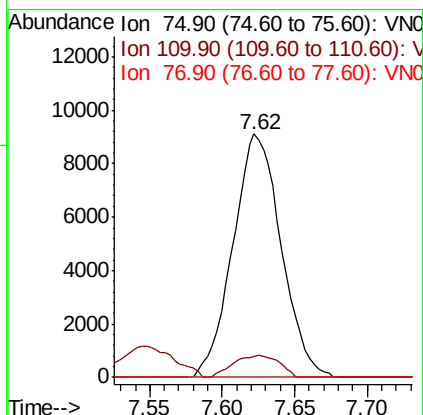
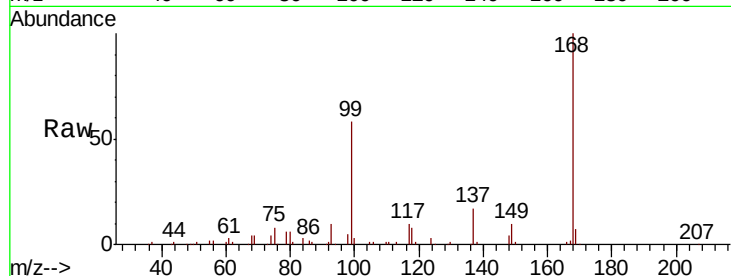




#36
 1,1-Dichloropropene
 Concen: 4.709 ug/l
 RT: 7.62 min Scan# 1819
 Delta R.T. -0.13 min
 Lab File: VN061602.D
 Acq: 1 Jun 2020 18:06

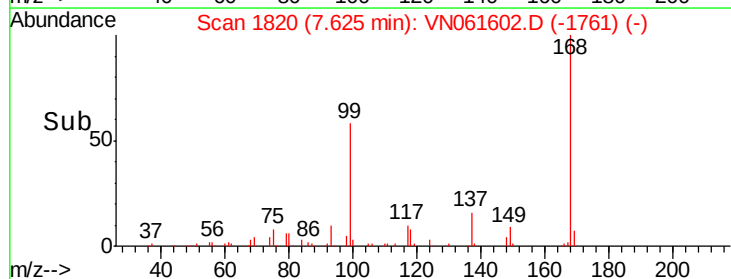
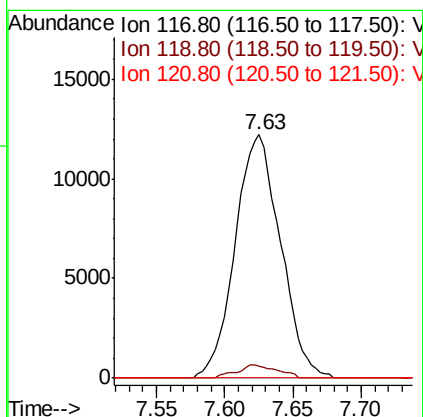
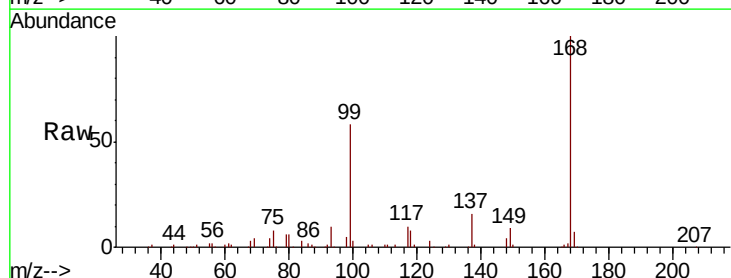
Instrument :
 MSVOA_N
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 PL-02-052920

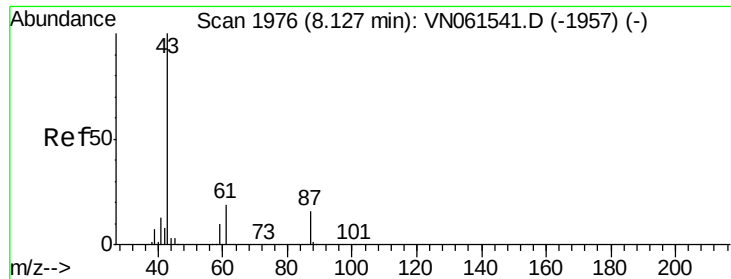
Tot Ion	75	Resp	20991
Ion Ratio	Lower	Upper	
75	100		
110	8.7	19.5	58.5#
77	0.0	24.7	37.1#



#38
 Carbon Tetrachloride
 Concen: 6.550 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.11 min
 Lab File: VN061602.D
 Acq: 1 Jun 2020 18:06

Tgt Ion	117	Resp	28163
Ion Ratio	Lower	Upper	
117	100		
119	5.1	76.5	114.7#
121	0.0	24.1	36.1#

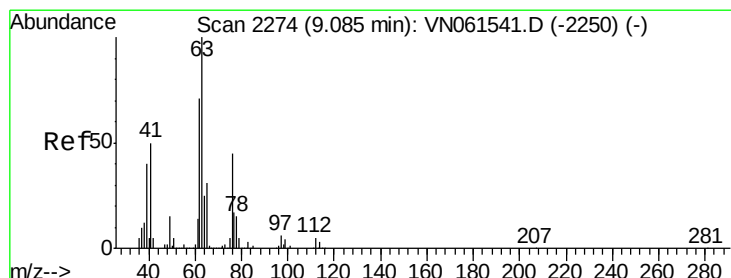
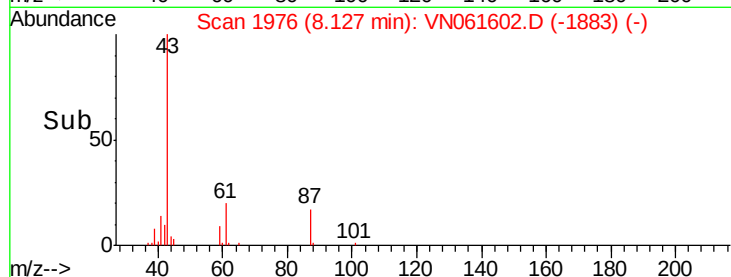
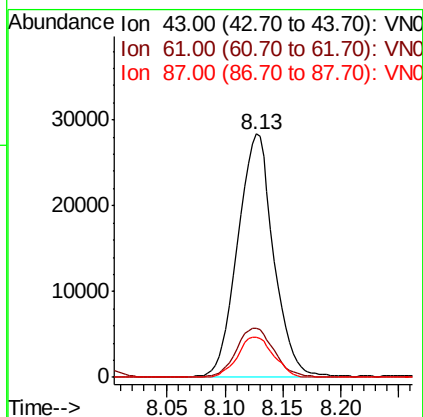
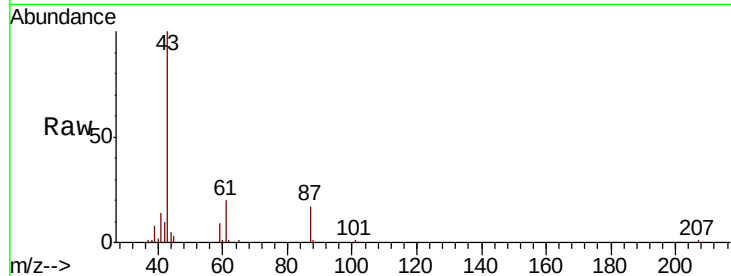




#43
Isopropyl Acetate
Concen: 9.472 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. -0.00 min
Lab File: VN061602.D
Acq: 1 Jun 2020 18:06

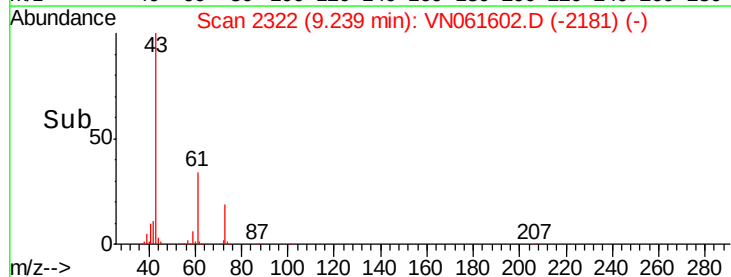
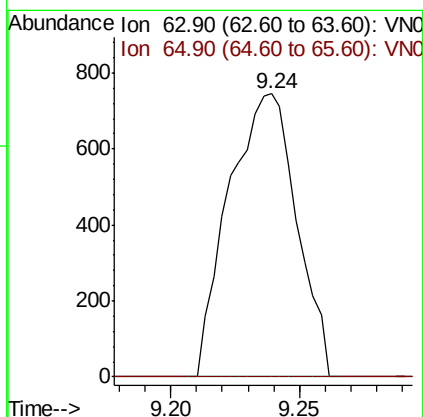
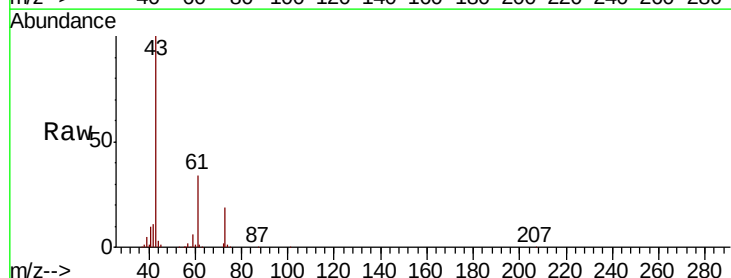
Instrument :
MSVOA_N
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PL-02-052920

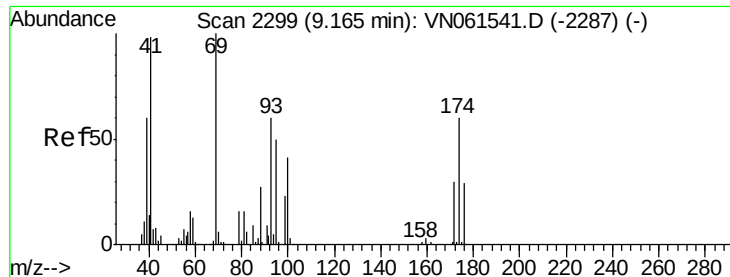
Tot Ion: 43 Resp: 61178
Ion Ratio Lower Upper
43 100
61 21.2 23.6 35.4#
87 16.5 13.0 19.6



#45
1,2-Dichloropropane
Concen: 0.418 ug/l
RT: 9.24 min Scan# 2322
Delta R.T. 0.15 min
Lab File: VN061602.D
Acq: 1 Jun 2020 18:06

Tgt Ion: 63 Resp: 1365
Ion Ratio Lower Upper
63 100
65 0.0 24.7 37.1#

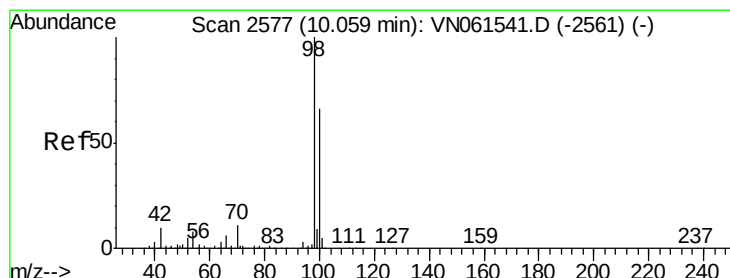
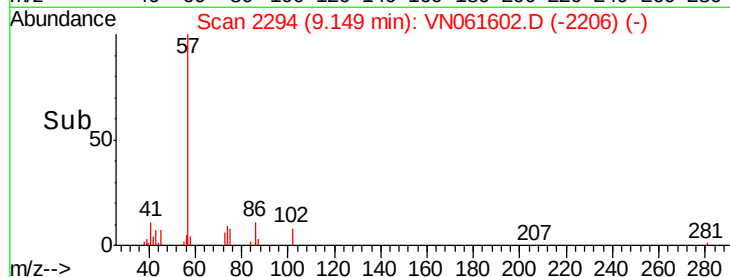
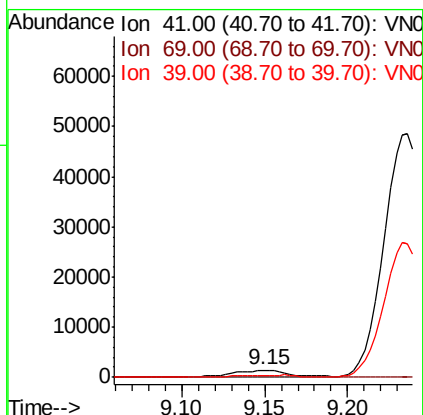
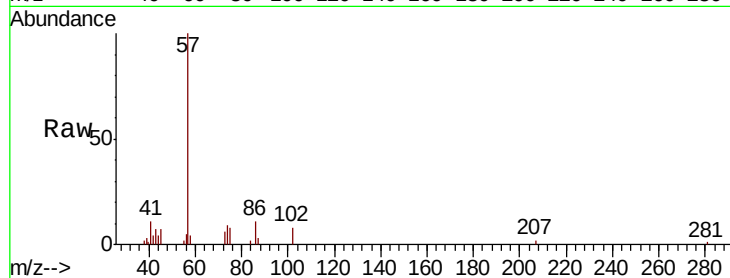




#48
Methvl methacrylate
Concen: 1.134 ug/l
RT: 9.15 min Scan# 2294
Delta R.T. -0.02 min
Lab File: VN061602.D
Acq: 1 Jun 2020 18:06

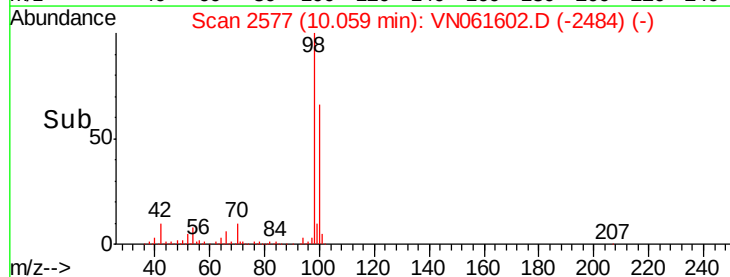
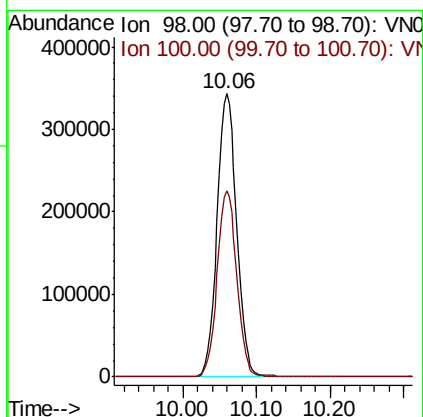
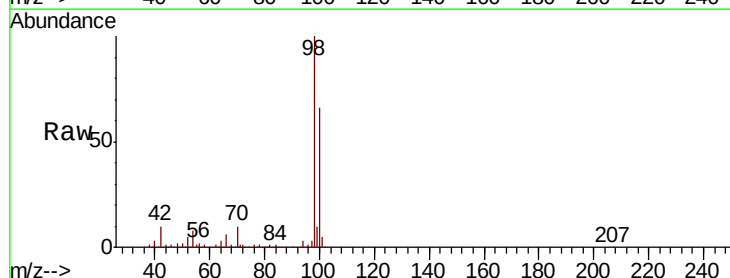
Instrument :
MSVOA_N
ClientSampleId :
PL-02-052920

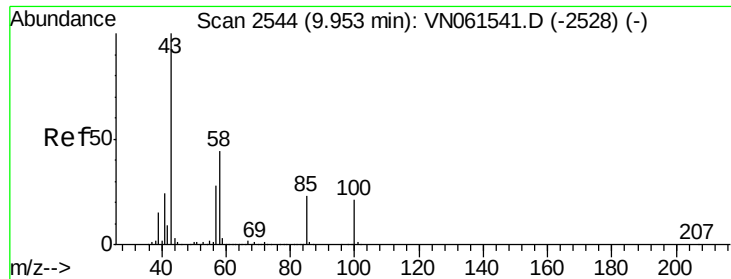
Tot Ion: 41 Resp: 3295
Ion Ratio Lower Upper
41 100
69 0.0 83.9 125.9#
39 0.0 52.1 78.1#



#50
Toluene-d8
Concen: 53.387 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. -0.00 min
Lab File: VN061602.D
Acq: 1 Jun 2020 18:06

Tgt Ion: 98 Resp: 631914
Ion Ratio Lower Upper
98 100
100 65.9 52.8 79.2

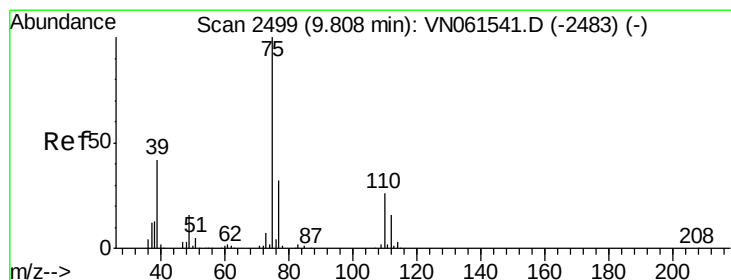
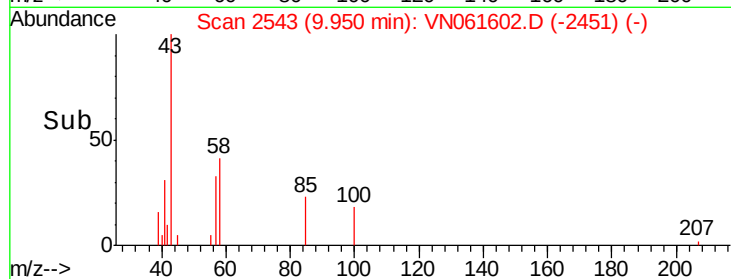
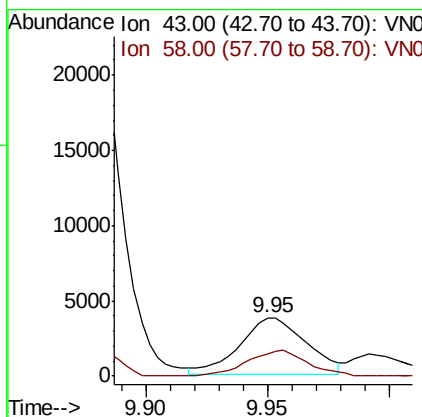
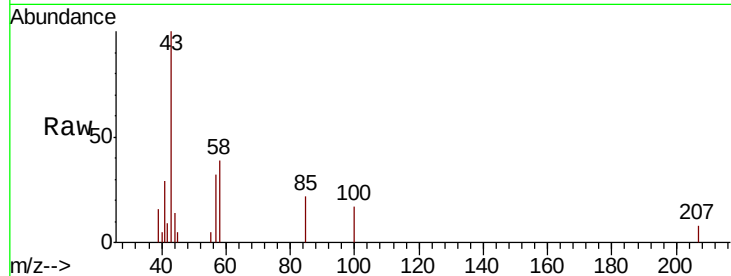




#51
 4-Methyl-2-Pentanone
 Concen: 1.978 ug/l
 RT: 9.95 min Scan# 2543
 Delta R.T. -0.00 min
 Lab File: VN061602.D
 Acq: 1 Jun 2020 18:06

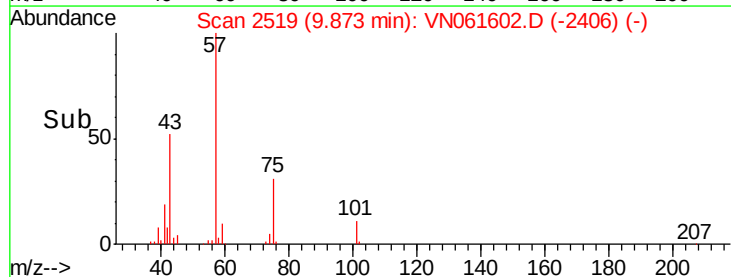
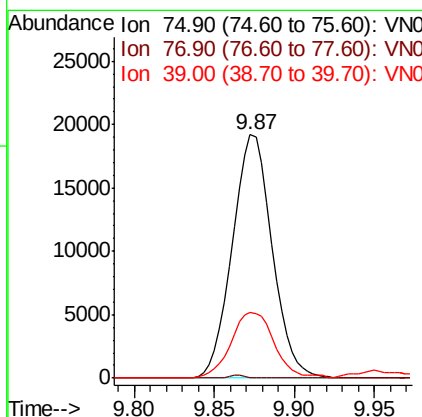
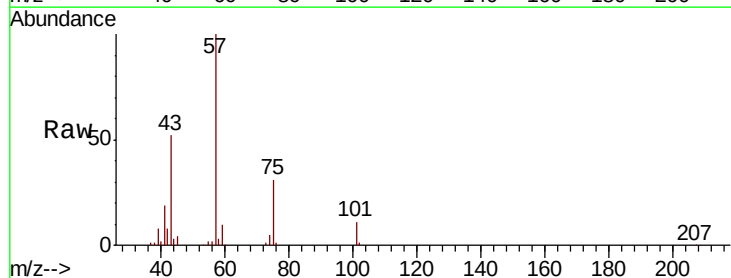
Instrument :
 MSVOA_N
 ClientSampleId :
 PL-02-052920

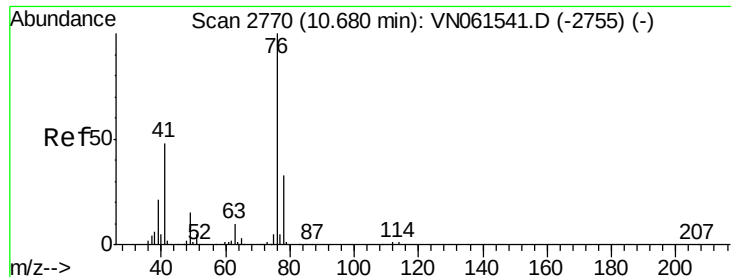
Tot Ion: 43 Resp: 7199
 Ion Ratio Lower Upper
 43 100
 58 41.9 35.0 52.6



#54
 cis-1,3-Dichloropropene
 Concen: 5.661 ug/l
 RT: 9.87 min Scan# 2519
 Delta R.T. 0.06 min
 Lab File: VN061602.D
 Acq: 1 Jun 2020 18:06

Tgt Ion: 75 Resp: 32541
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.4 38.2#
 39 26.9 33.8 50.6#

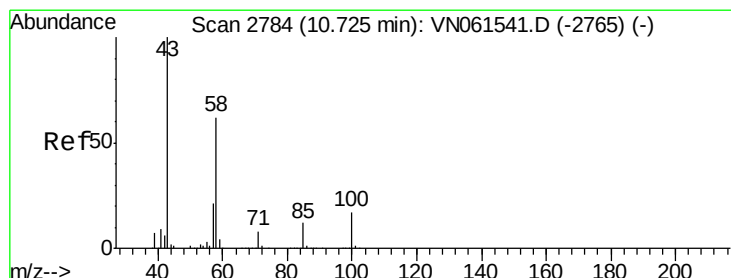
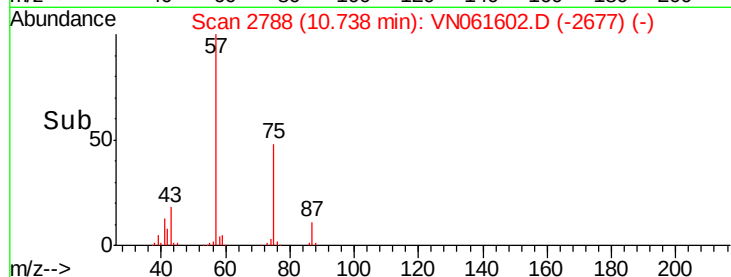
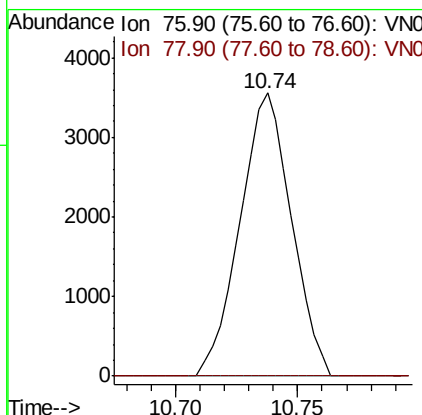
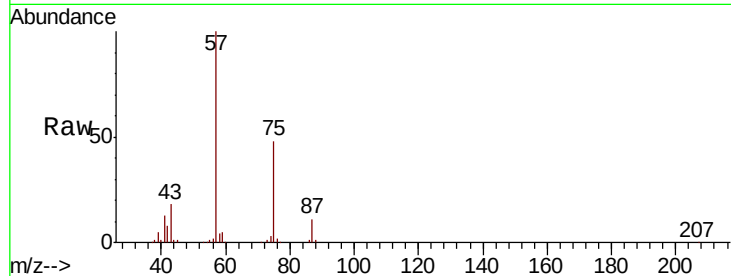




#57
 1,3-Dichloropropane
 Concen: 0.908 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.06 min
 Lab File: VN061602.D
 Acq: 1 Jun 2020 18:06

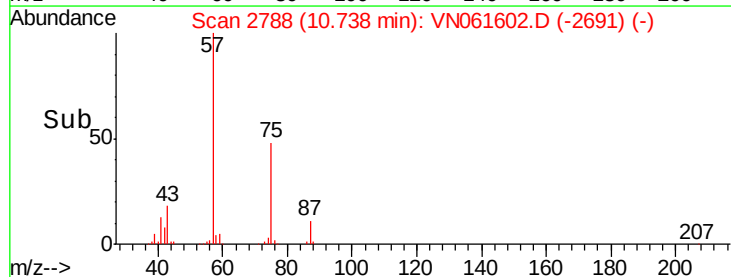
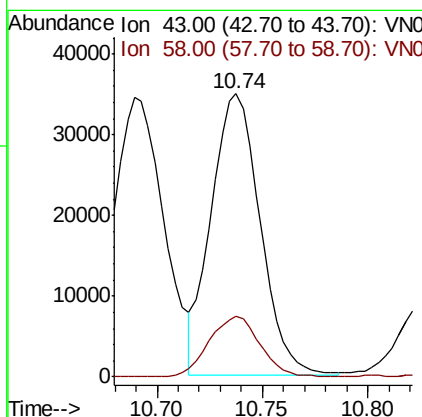
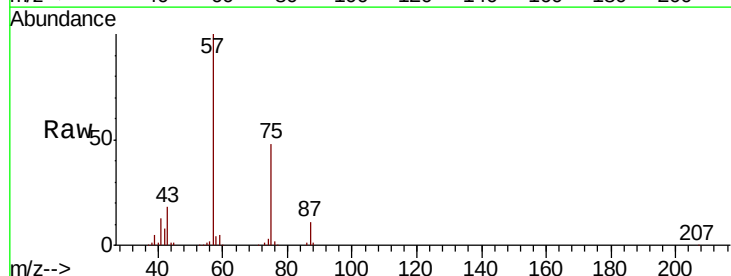
Instrument :
 MSVOA_N
 ClientSampleId :
 PL-02-052920

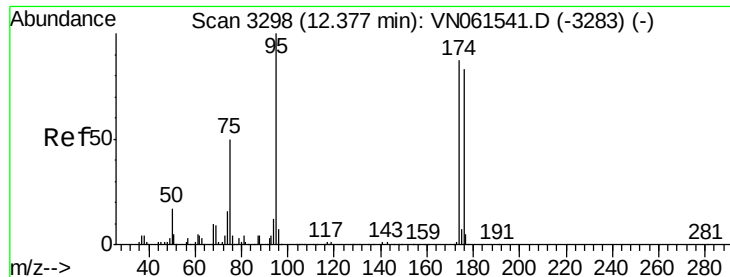
Tot Ion: 76 Resp: 5192
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.3 39.5#



#59
 2-Hexanone
 Concen: 21.543 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.01 min
 Lab File: VN061602.D
 Acq: 1 Jun 2020 18:06

Tgt Ion: 43 Resp: 56315
 Ion Ratio Lower Upper
 43 100
 58 22.2 30.7 92.1#

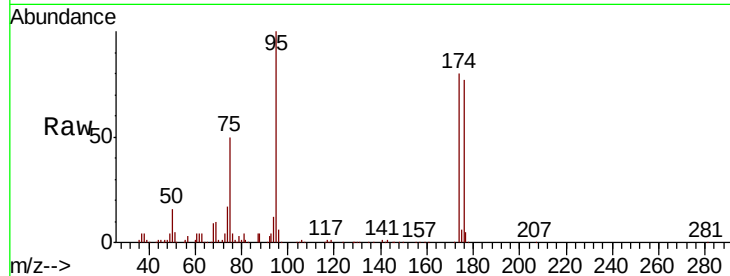




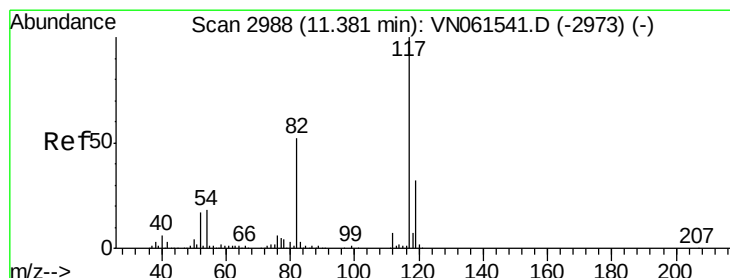
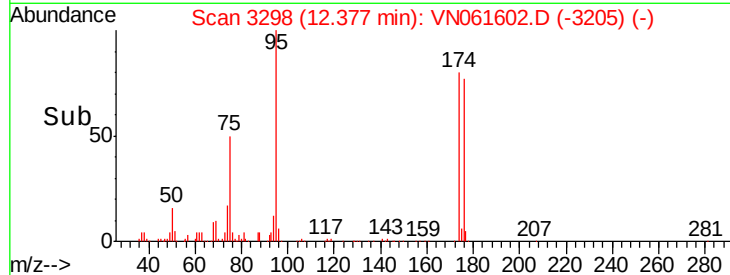
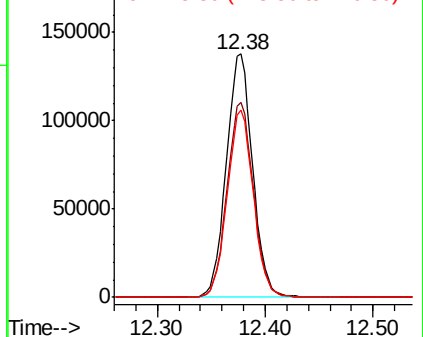
#62
4-Bromofluorobenzene
Concen: 54.150 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.00 min
Lab File: VN061602.D
Acq: 1 Jun 2020 18:06

Instrument :
MSVOA_N
ClientSampleId :
PL-02-052920

Tot Ion	Ratio	Lower	Upper
95	100		
174	80.4	0.0	172.8
176	76.5	0.0	164.8

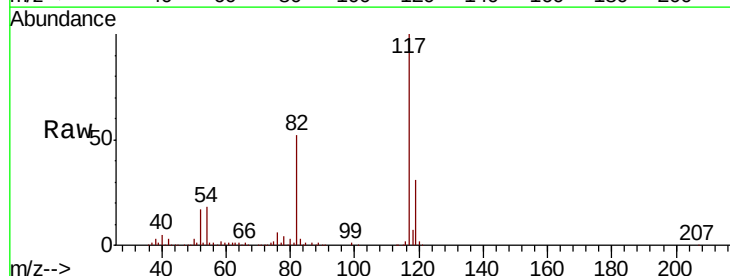


Abundance Ion 94.90 (94.60 to 95.60): VN061541.D (-3283) (-)
Ion 173.80 (173.50 to 174.50): VN061541.D (-3283) (-)
Ion 175.80 (175.50 to 176.50): VN061541.D (-3283) (-)

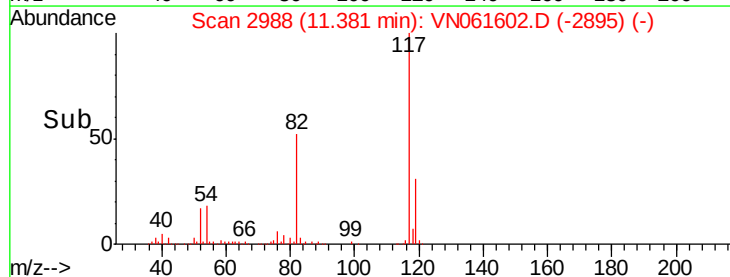
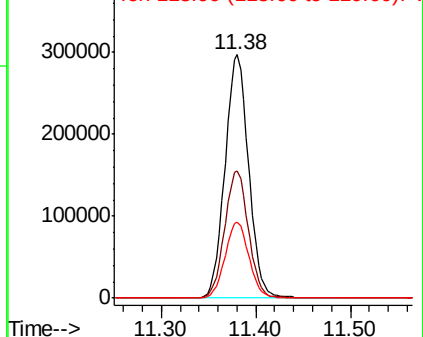


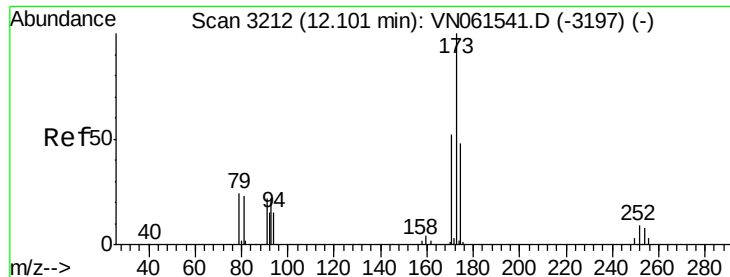
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN061602.D
Acq: 1 Jun 2020 18:06

Tgt Ion	Ratio	Lower	Upper
117	100		
82	52.2	41.5	62.3
119	31.5	25.6	38.4



Abundance Ion 116.90 (116.60 to 117.60): VN061541.D (-2973) (-)
Ion 82.00 (81.70 to 82.70): VN061541.D (-2973) (-)
Ion 118.90 (118.60 to 119.60): VN061541.D (-2973) (-)





#71

Bromoform

Concen: 0.343 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.27 min

Lab File: VN061602.D

Acq: 1 Jun 2020 18:06

Instrument :

MSVOA_N

ClientSampled :

PL-02-052920

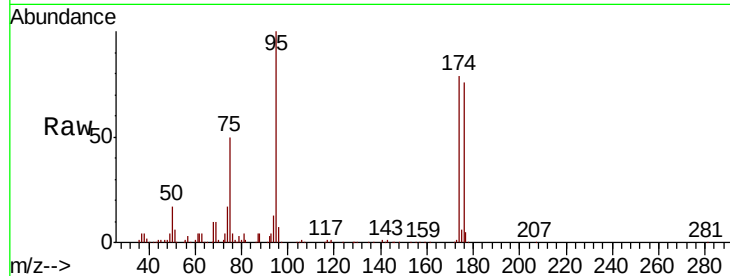
Tot Ion:173 Resp: 1059

Ion Ratio Lower Upper

173 100

175 1120.4 24.4 73.2#

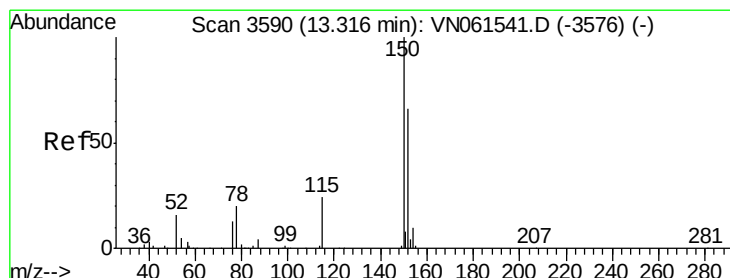
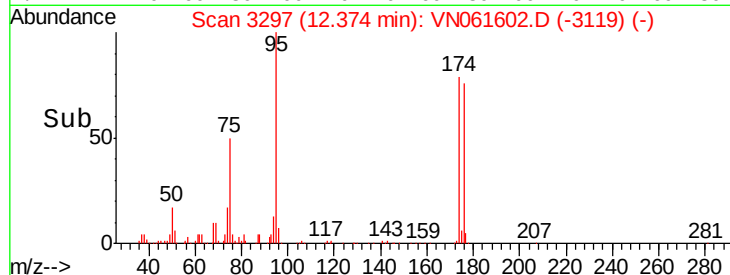
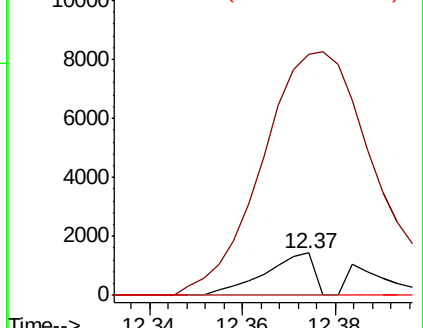
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3590

Delta R.T. -0.00 min

Lab File: VN061602.D

Acq: 1 Jun 2020 18:06

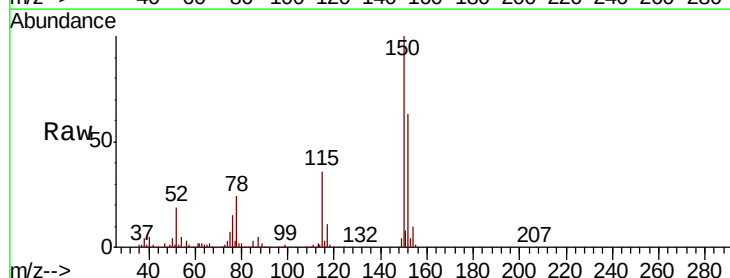
Tgt Ion:152 Resp: 234122

Ion Ratio Lower Upper

152 100

115 57.6 28.0 84.0

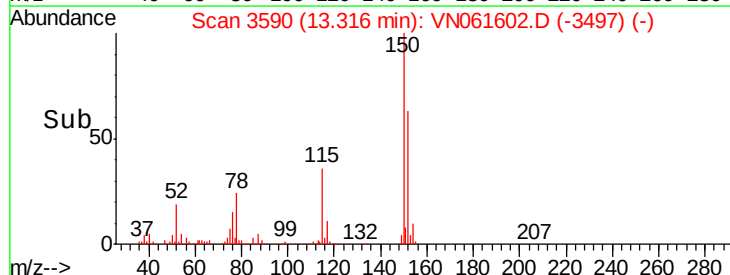
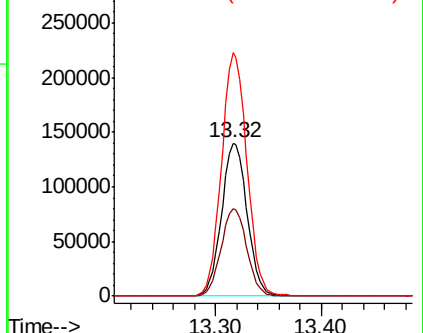
150 158.6 0.0 344.0

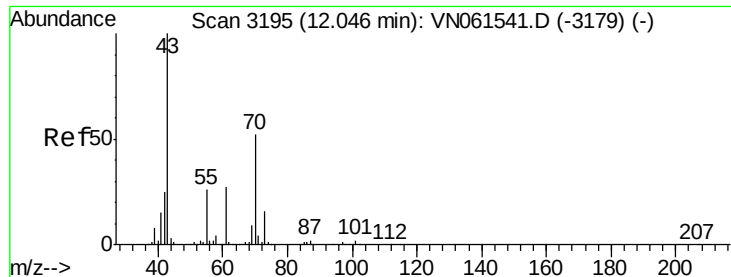


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.507 ug/l

RT: 12.01 min Scan# 3183

Delta R.T. -0.04 min

Lab File: VN061602.D

Acq: 1 Jun 2020 18:06

Instrument :

MSVOA_N

ClientSampleId :

PL-02-052920

Tot Ion: 43 Resp: 2729

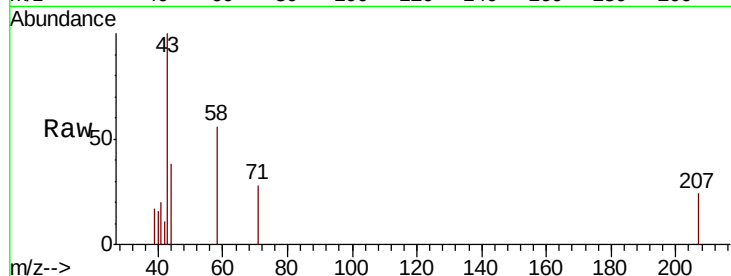
Ion Ratio Lower Upper

43 100

70 0.0 40.5 60.7#

55 0.0 20.6 31.0#

61 0.0 21.8 32.6#

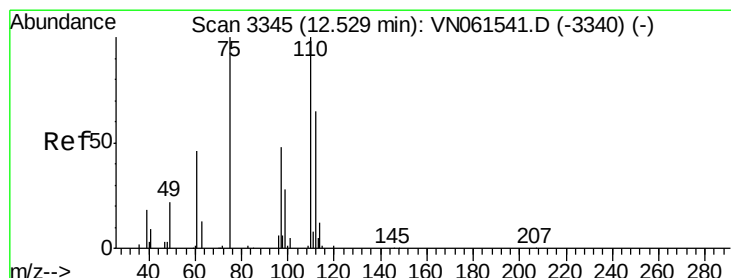
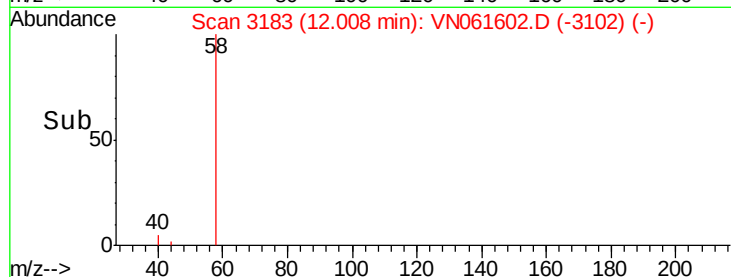
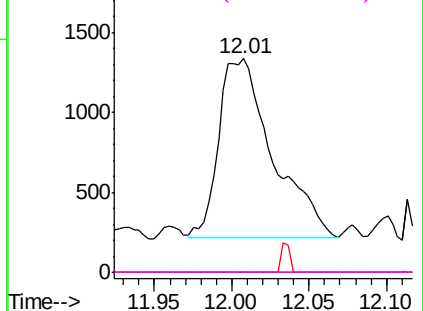


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 27.288 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN061602.D

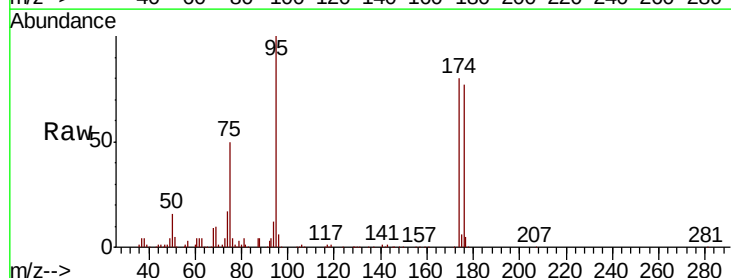
Acq: 1 Jun 2020 18:06

Tgt Ion: 75 Resp: 116170

Ion Ratio Lower Upper

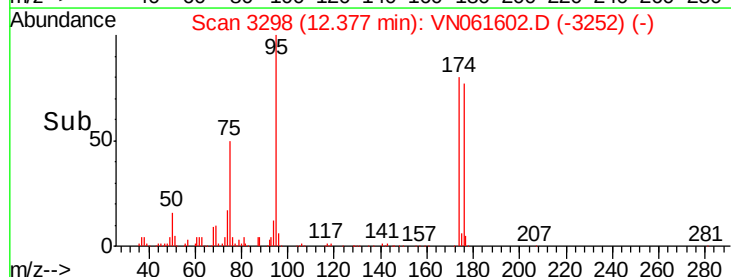
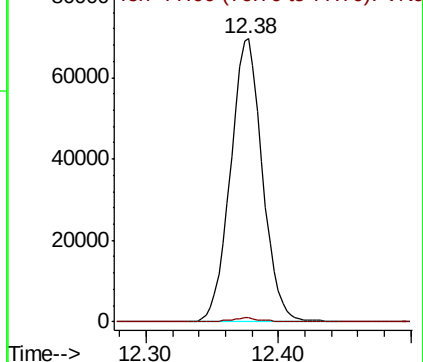
75 100

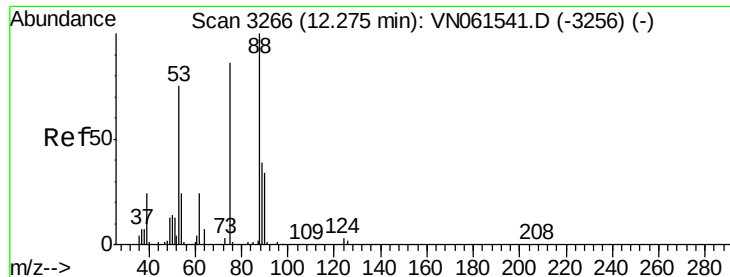
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

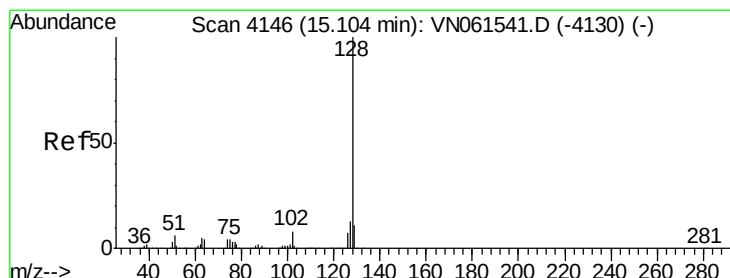
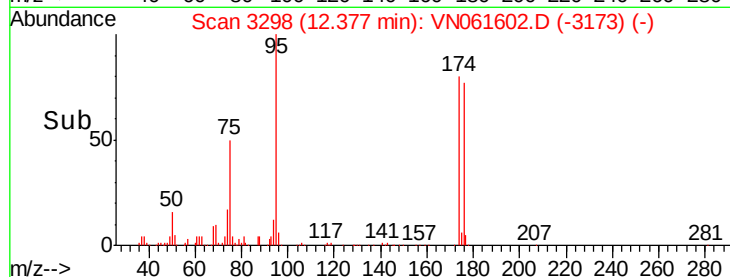
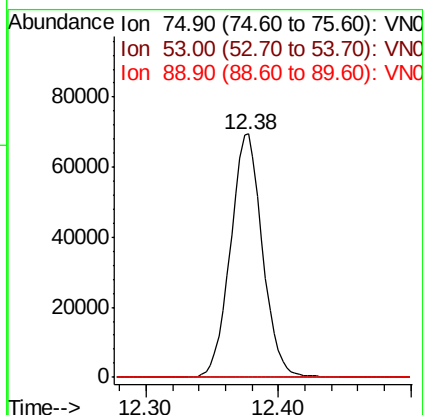
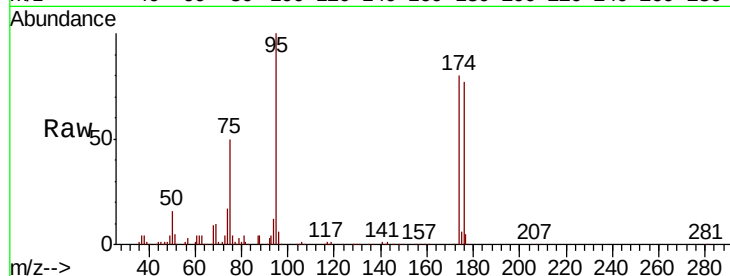




#81
trans-1,4-Dichloro-2-butene
Concen: 69.782 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.10 min
Lab File: VN061602.D
Acq: 1 Jun 2020 18:06

Instrument :
MSVOA_N
ClientSampleId :
PL-02-052920

Tot Ion: 75 Resp: 116170
Ion Ratio Lower Upper
75 100
53 0.0 67.8 101.8#
89 0.0 37.1 55.7#



#95
Naphthalene
Concen: 1.633 ug/l
RT: 15.10 min Scan# 4146
Delta R.T. -0.00 min
Lab File: VN061602.D
Acq: 1 Jun 2020 18:06

Tgt Ion: 128 Resp: 21459
Ion Ratio Lower Upper
128 100
127 12.8 10.0 15.0
129 10.0 8.5 12.7

