

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031620\
 Data File : VN060519.D
 Acq On : 16 Mar 2020 13:44
 Operator : JC/MD
 Sample : PB127541TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB127541TB

Quant Time: Mar 17 08:43:35 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022720W.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 27 13:52:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	218492	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	365621	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	344465	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	154083	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	142313	50.77	ug/l	0.00
Spiked Amount			Recovery	=	101.54%	
35) Dibromofluoromethane	7.56	113	107273	63.21	ug/l	0.00
Spiked Amount			Recovery	=	126.42%	
50) Toluene-d8	10.08	98	449969	52.39	ug/l	0.00
Spiked Amount			Recovery	=	104.78%	
62) 4-Bromofluorobenzene	12.40	95	167883	51.56	ug/l	0.00
Spiked Amount			Recovery	=	103.12%	

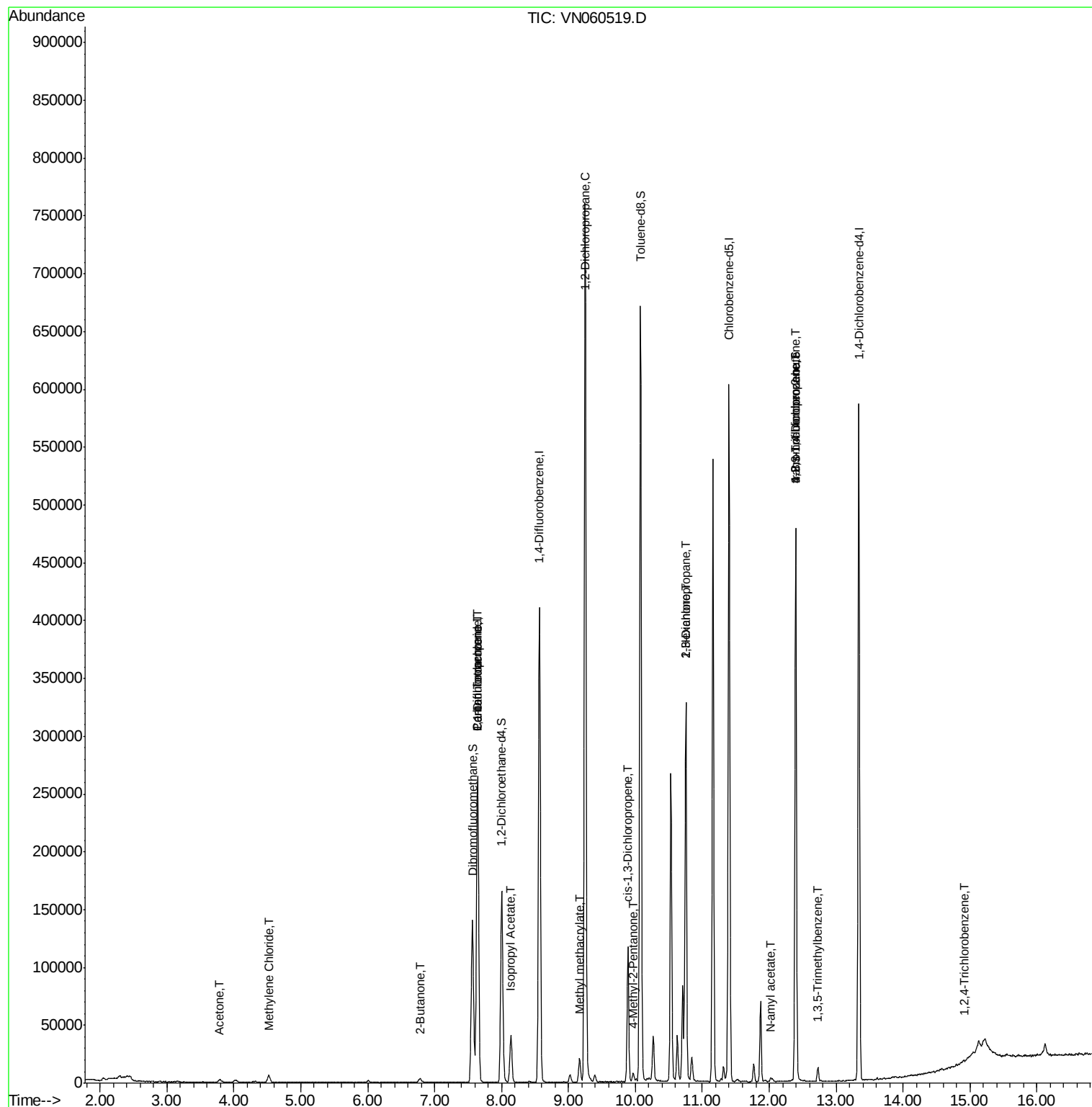
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	2769	3.059	ug/l	99
17) Carbon Disulfide	4.04	76	360	Below Cal	#	75
20) Methylene Chloride	4.52	84	4709	1.894	ug/l	98
25) 2-Butanone	6.79	43	392	0.268	ug/l #	49
31) Cyclohexane	7.64	56	4533	Below Cal	#	1
36) 1,1-Dichloropropene	7.64	75	16939	4.861	ug/l #	50
38) Carbon Tetrachloride	7.64	117	20785	6.127	ug/l #	16
43) Isopropyl Acetate	8.14	43	48801	8.449	ug/l #	90
45) 1,2-Dichloropropane	9.25	63	806	0.304	ug/l #	44
48) Methyl methacrylate	9.16	41	3551	1.348	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	4902	1.497	ug/l	97
54) cis-1,3-Dichloropropene	9.89	75	20854	4.694	ug/l #	59
57) 1,3-Dichloropropane	10.75	76	3105	0.743	ug/l #	42
59) 2-Hexanone	10.75	43	49269	20.490	ug/l #	53
74) N-amyl acetate	12.02	43	3975	0.797	ug/l #	44
76) 1,2,3-Trichloropropane	12.39	75	85335	25.243	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	6952	0.723	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.39	75	85335	69.682	ug/l #	8
87) 1,3-Dichlorobenzene	13.28	146	461	Below Cal	#	69
88) 1,4-Dichlorobenzene	13.36	146	573	Below Cal	#	25
93) 1,2,4-Trichlorobenzene	14.90	180	527	0.257	ug/l #	85
95) Naphthalene	15.13	128	1932	Below Cal	#	76

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060519.D

Acq: 16 Mar 2020 13:44

Instrument :

MSVOA_N

ClientSampleId :

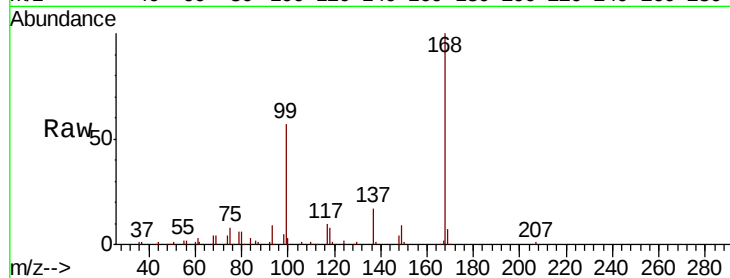
PB127541TB

Tot Ion:168 Resp: 218492

Ion Ratio Lower Upper

168 100

99 56.9 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.64

80000

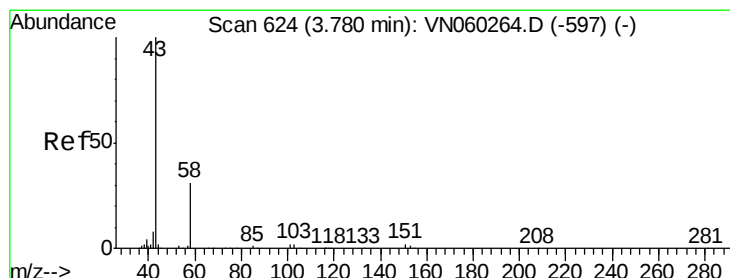
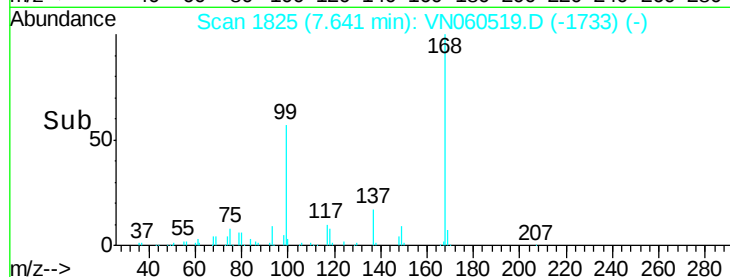
60000

40000

20000

0

Time-->



#16

Acetone

Concen: 3.059 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.00 min

Lab File: VN060519.D

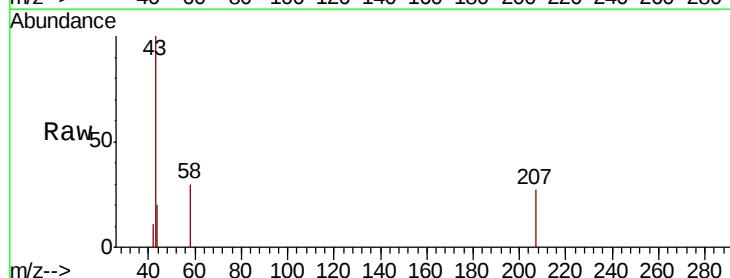
Acq: 16 Mar 2020 13:44

Tgt Ion: 43 Resp: 2769

Ion Ratio Lower Upper

43 100

58 30.3 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.78

2000

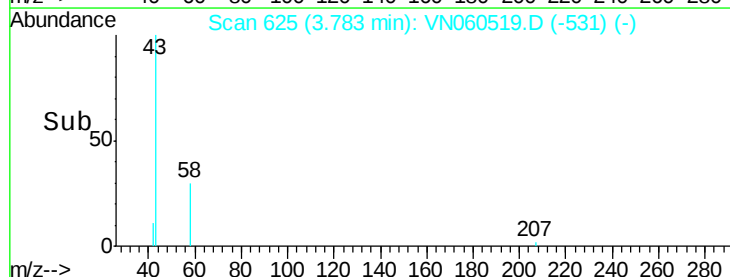
1500

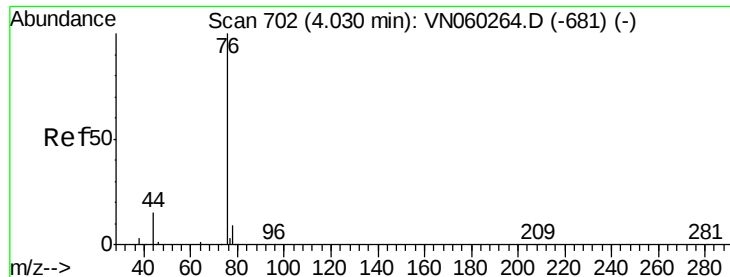
1000

500

0

Time-->

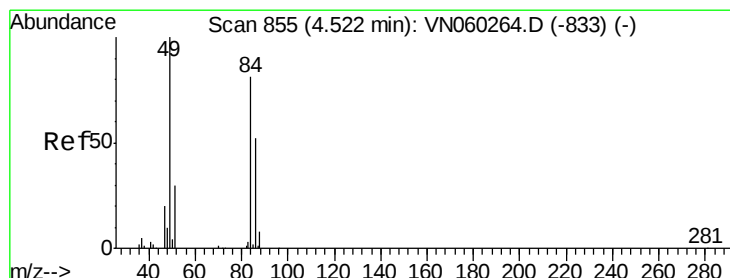
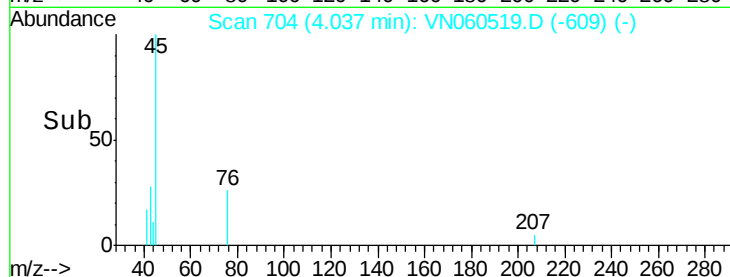
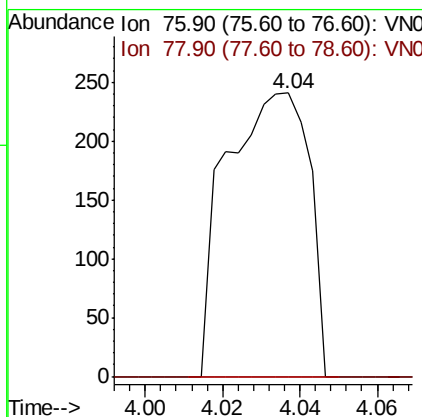
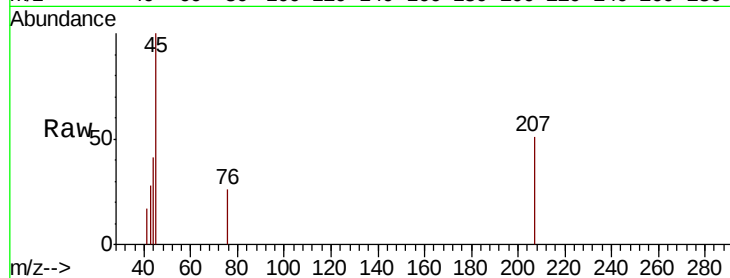




#17
Carbon Disulfide
Concen: Below Cal
RT: 4.04 min Scan# 704
Delta R.T. 0.01 min
Lab File: VN060519.D
Acq: 16 Mar 2020 13:44

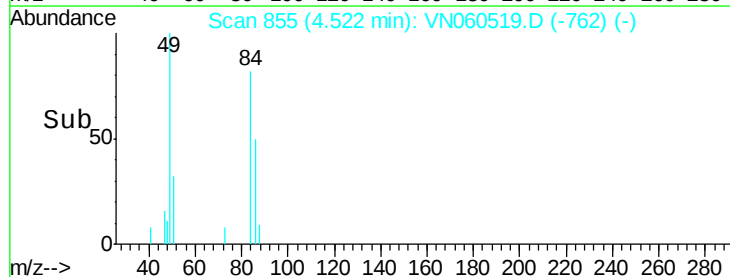
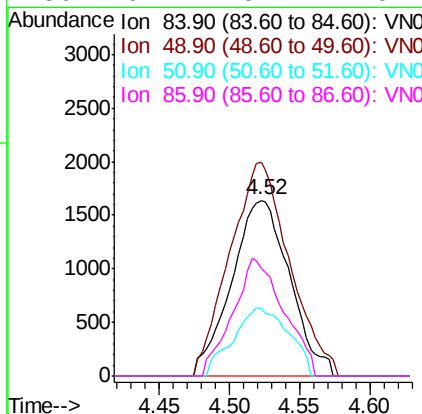
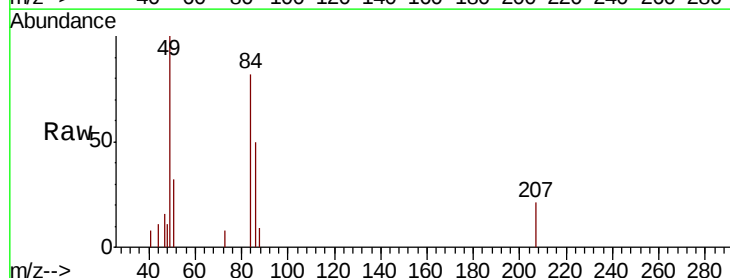
Instrument :
MSVOA_N
ClientSampled :
PB127541TB

Tot Ion: 76 Resp: 360
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#



#20
Methylene Chloride
Concen: 1.894 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN060519.D
Acq: 16 Mar 2020 13:44

Tgt Ion: 84 Resp: 4709
Ion Ratio Lower Upper
84 100
49 121.7 99.3 148.9
51 38.7 30.1 45.1
86 61.2 51.1 76.7

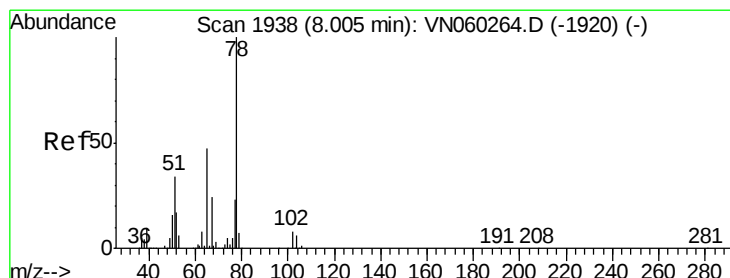
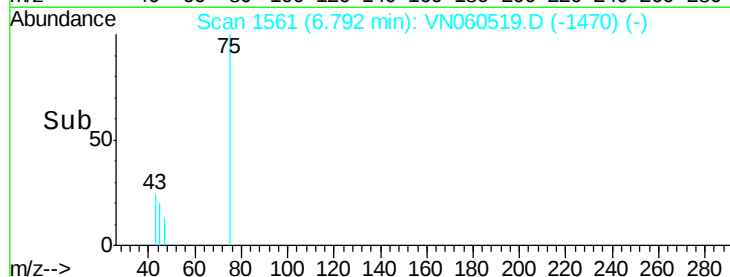
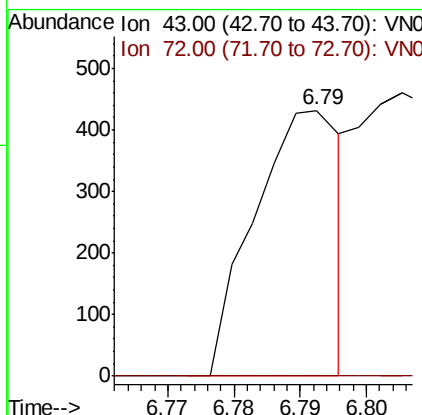
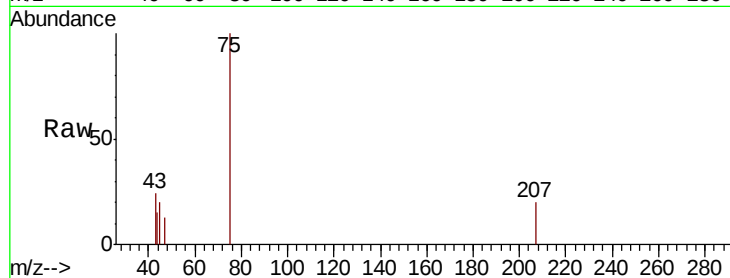




#25
 2-Butanone
 Concen: 0.268 ug/l
 RT: 6.79 min Scan# 1561
 Delta R.T. -0.01 min
 Lab File: VN060519.D
 Acq: 16 Mar 2020 13:44

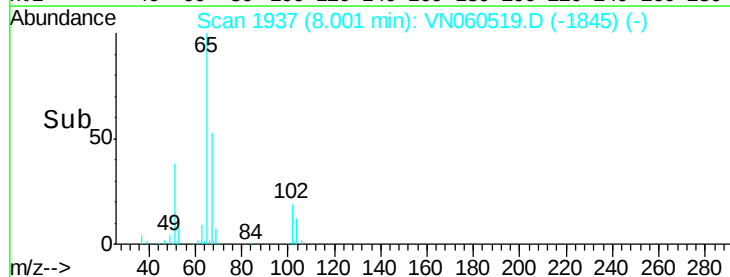
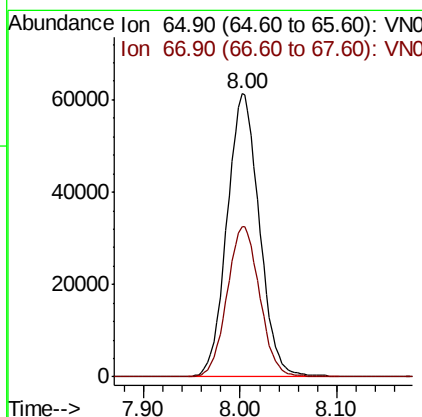
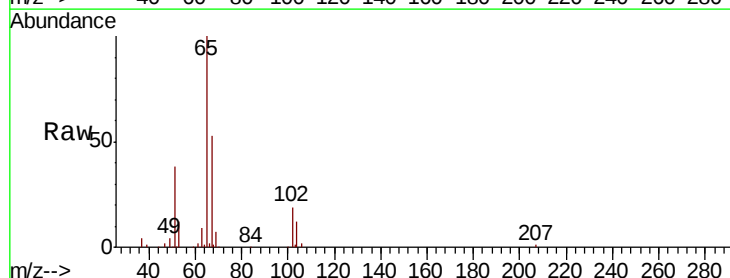
Instrument :
 MSVOA_N
 ClientSampleId :
 PB127541TB

Tot Ion: 43 Resp: 392
 Ion Ratio Lower Upper
 43 100
 72 0.0 20.9 31.3#



#33
 1,2-Dichloroethane-d4
 Concen: 50.767 ug/l
 RT: 8.00 min Scan# 1937
 Delta R.T. -0.00 min
 Lab File: VN060519.D
 Acq: 16 Mar 2020 13:44

Tgt Ion: 65 Resp: 142313
 Ion Ratio Lower Upper
 65 100
 67 53.6 0.0 103.8

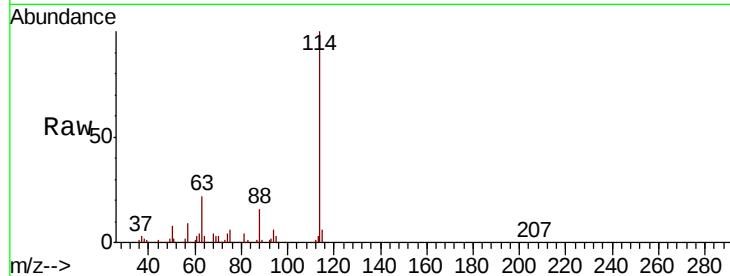




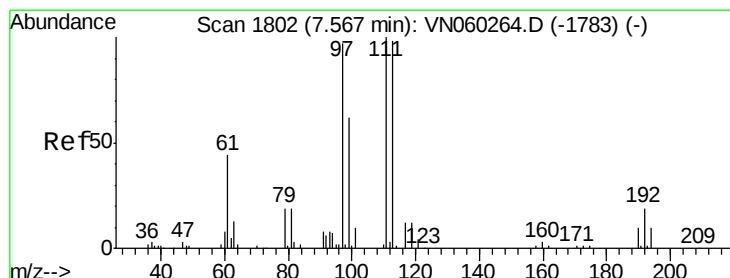
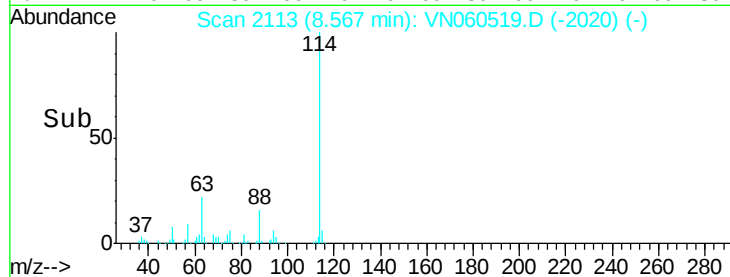
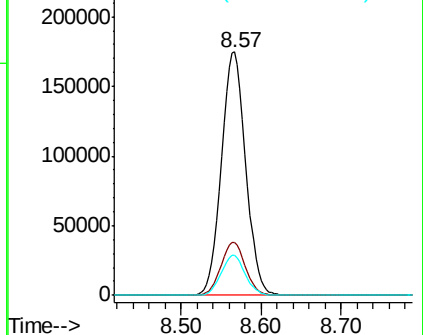
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN060519.D
 Acq: 16 Mar 2020 13:44

Instrument :
 MSVOA_N
 ClientSampleId :
 PB127541TB

Tot Ion:114 Resp: 365621
 Ion Ratio Lower Upper
 114 100
 63 21.7 0.0 43.2
 88 16.4 0.0 31.6

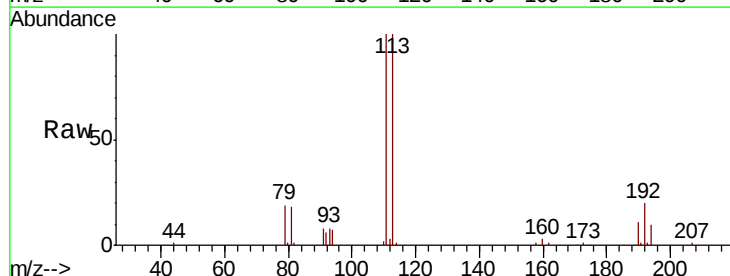


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

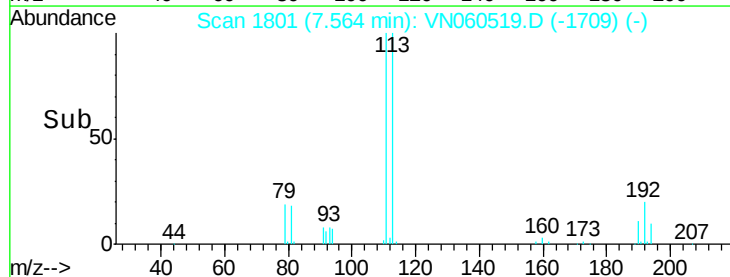
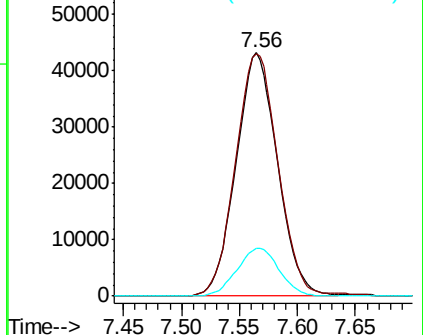


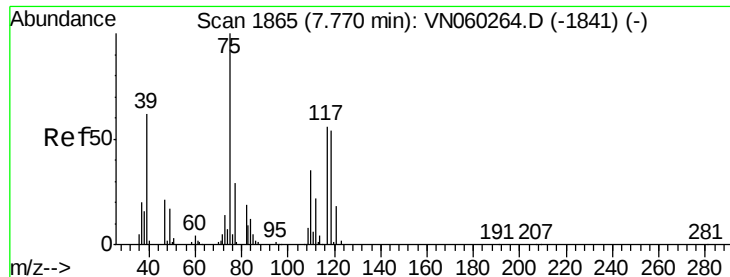
#35
 Dibromofluoromethane
 Concen: 63.210 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. -0.00 min
 Lab File: VN060519.D
 Acq: 16 Mar 2020 13:44

Tgt Ion:113 Resp: 107273
 Ion Ratio Lower Upper
 113 100
 111 102.9 82.4 123.6
 192 20.0 16.2 24.2



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: 4.861 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.13 min

Lab File: VN060519.D

Acq: 16 Mar 2020 13:44

Instrument :

MSVOA_N

ClientSampleId :

PB127541TB

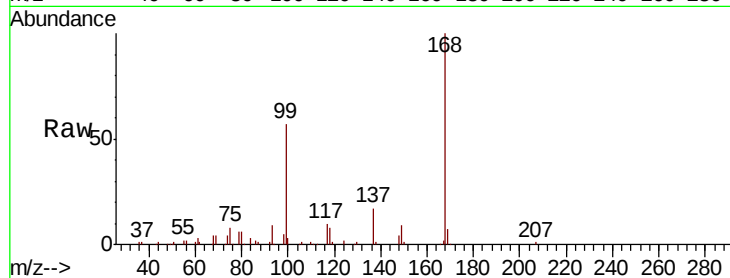
Tot Ion: 75 Resp: 16939

Ion Ratio Lower Upper

75 100

110 8.5 17.3 52.0#

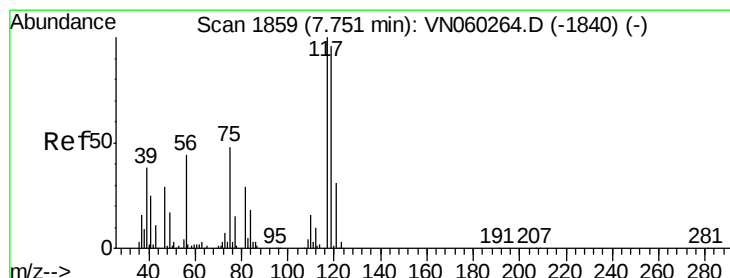
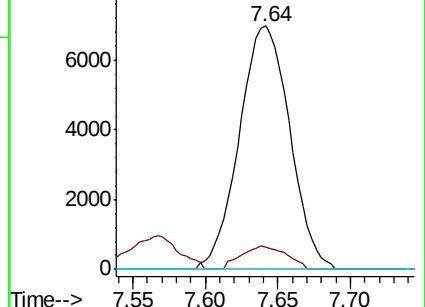
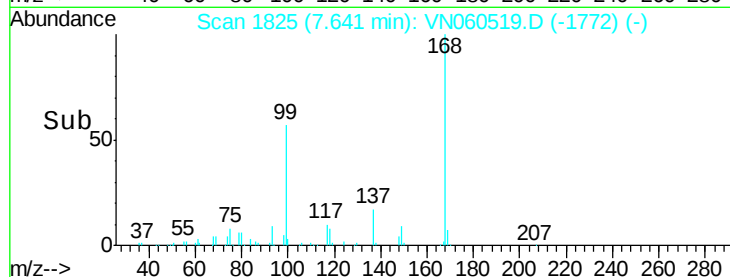
77 0.0 24.2 36.2#



Abundance Ion 74.90 (74.60 to 75.60): VN060519.D (-1772) (-)

Ion 109.90 (109.60 to 110.60): VN060519.D (-1772) (-)

Ion 76.90 (76.60 to 77.60): VN060519.D (-1772) (-)



#38

Carbon Tetrachloride

Concen: 6.127 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN060519.D

Acq: 16 Mar 2020 13:44

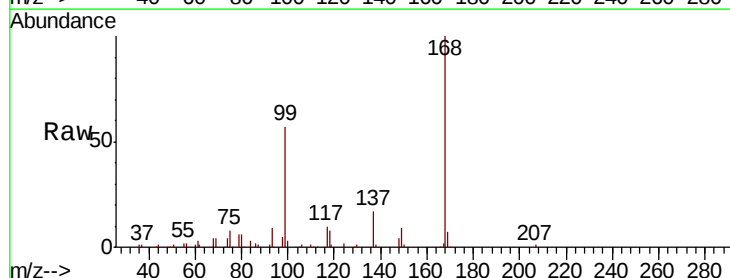
Tgt Ion: 117 Resp: 20785

Ion Ratio Lower Upper

117 100

119 5.5 76.7 115.1#

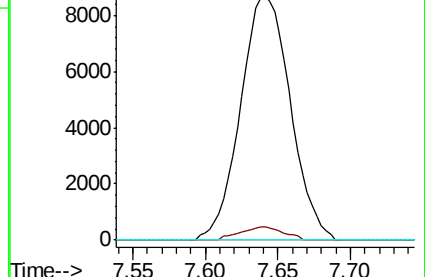
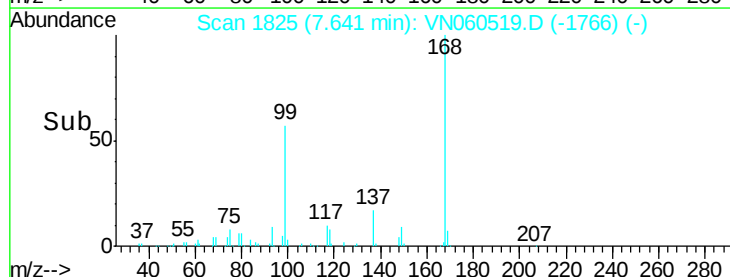
121 0.0 24.5 36.7#

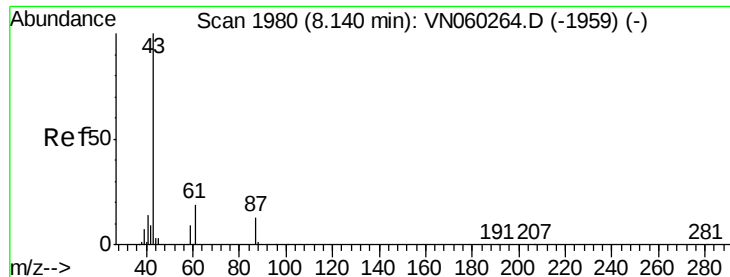


Abundance Ion 116.80 (116.50 to 117.50): VN060519.D (-1766) (-)

Ion 118.80 (118.50 to 119.50): VN060519.D (-1766) (-)

Ion 120.80 (120.50 to 121.50): VN060519.D (-1766) (-)





#43

Isopropyl Acetate

Concen: 8.449 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060519.D

Acq: 16 Mar 2020 13:44

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MSVOA_N

ClientSampleId :

PB127541TB

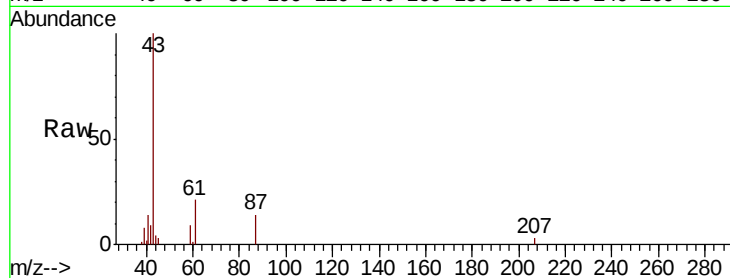
Tot Ion: 43 Resp: 48801

Ion Ratio Lower Upper

43 100

61 19.3 20.9 31.3#

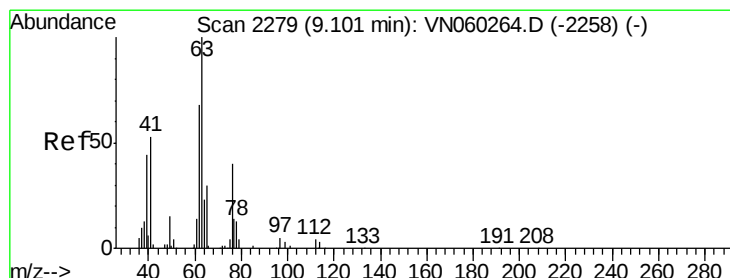
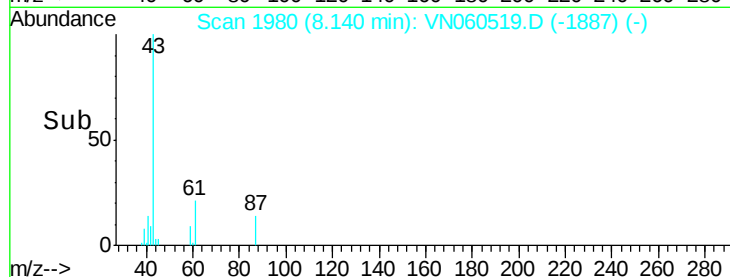
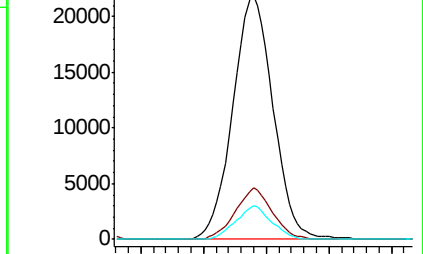
87 12.2 10.6 16.0



Abundance Ion 43.00 (42.70 to 43.70): VN060519.D (-1887) (-)

Ion 61.00 (60.70 to 61.70): VN060519.D (-1887) (-)

Ion 87.00 (86.70 to 87.70): VN060519.D (-1887) (-)



#45

1,2-Dichloropropane

Concen: 0.304 ug/l

RT: 9.25 min Scan# 2325

Delta R.T. 0.15 min

Lab File: VN060519.D

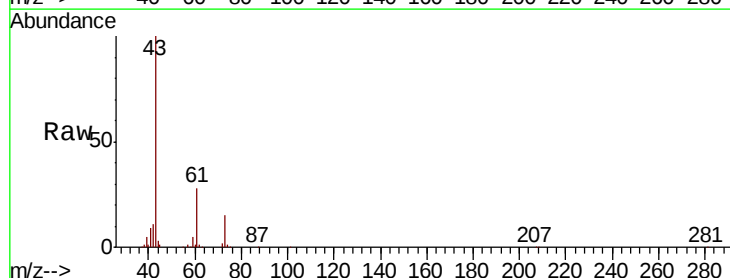
Acq: 16 Mar 2020 13:44

Tgt Ion: 63 Resp: 806

Ion Ratio Lower Upper

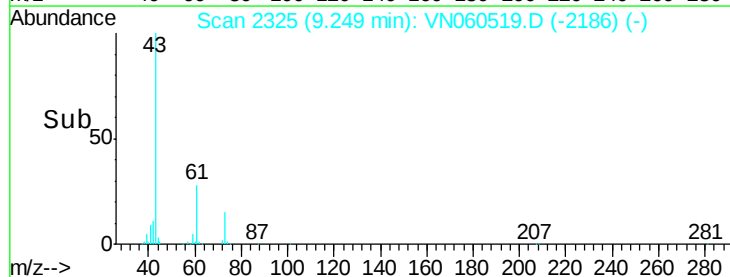
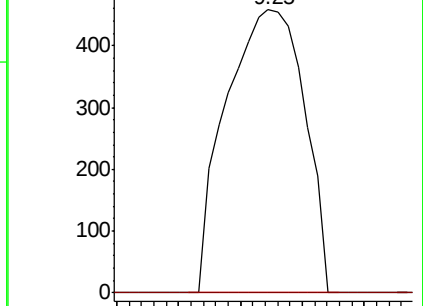
63 100

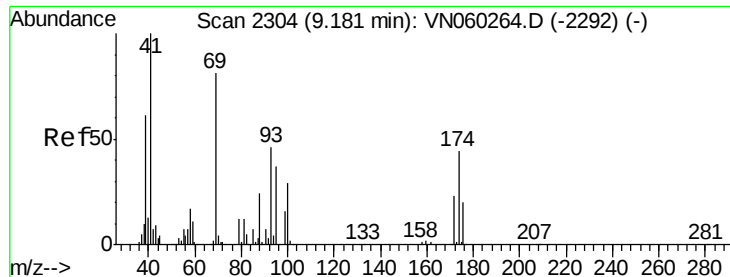
65 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VN060519.D (-2186) (-)

Ion 64.90 (64.60 to 65.60): VN060519.D (-2186) (-)

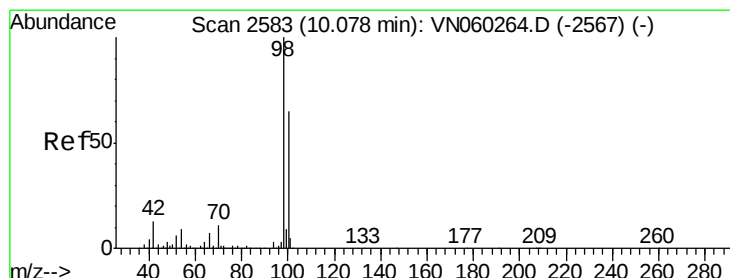
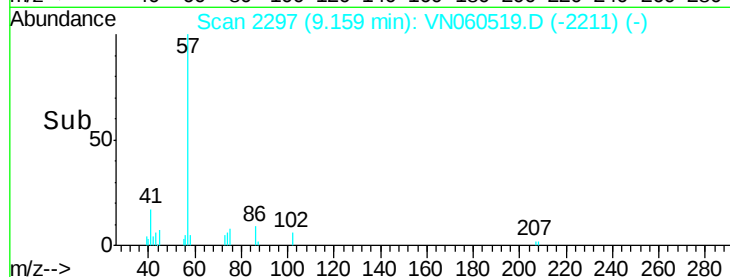
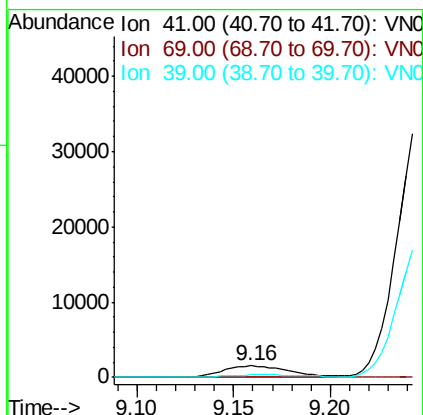
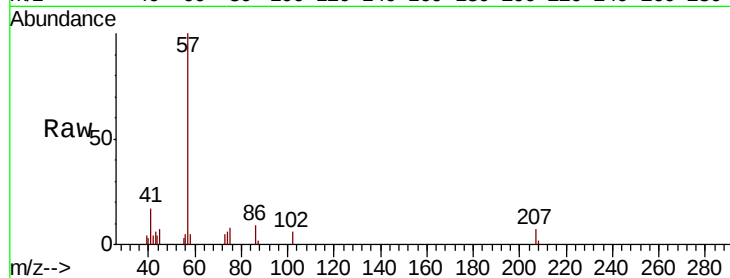




#48
Methvl methacrylate
Concen: 1.348 ug/l
RT: 9.16 min Scan# 2297
Delta R.T. -0.02 min
Lab File: VN060519.D
Acq: 16 Mar 2020 13:44

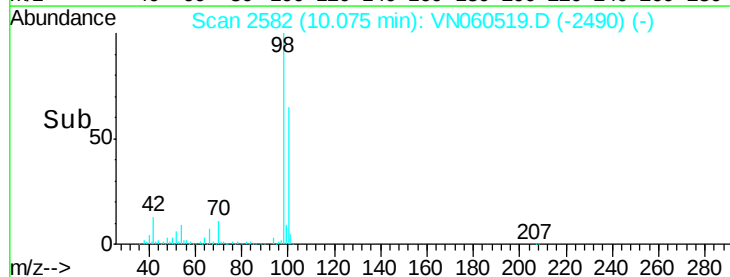
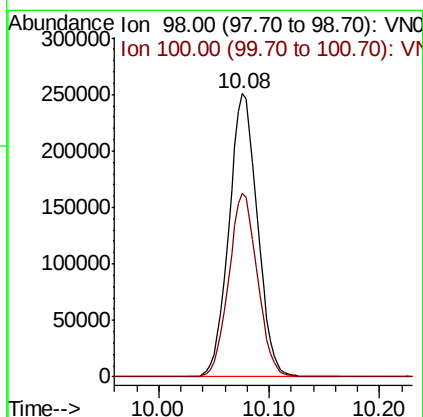
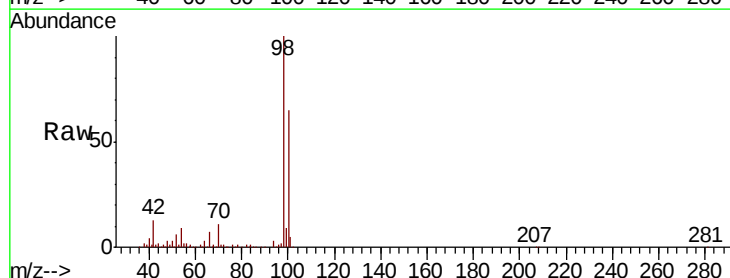
Instrument :
MSVOA_N
ClientSampleId :
PB127541TB

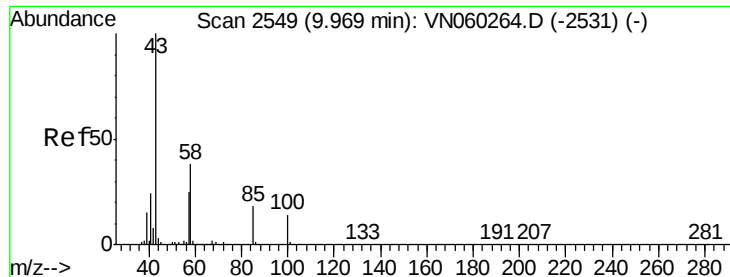
Tot Ion: 41 Resp: 3551
Ion Ratio Lower Upper
41 100
69 0.0 66.7 100.1#
39 0.0 50.1 75.1#



#50
Toluene-d8
Concen: 52.388 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. -0.00 min
Lab File: VN060519.D
Acq: 16 Mar 2020 13:44

Tgt Ion: 98 Resp: 449969
Ion Ratio Lower Upper
98 100
100 65.0 52.2 78.2





#51

4-Methyl-2-Pentanone

Concen: 1.497 ug/l

RT: 9.97 min Scan# 2548

Delta R.T. -0.00 min

Lab File: VN060519.D

Acq: 16 Mar 2020 13:44

Instrument :

MSVOA_N

ClientSampleId :

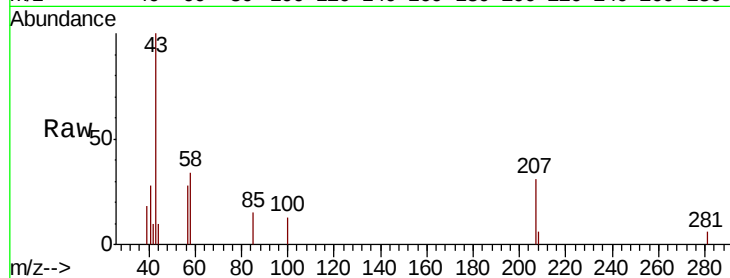
PB127541TB

Tot Ion: 43 Resp: 4902

Ion Ratio Lower Upper

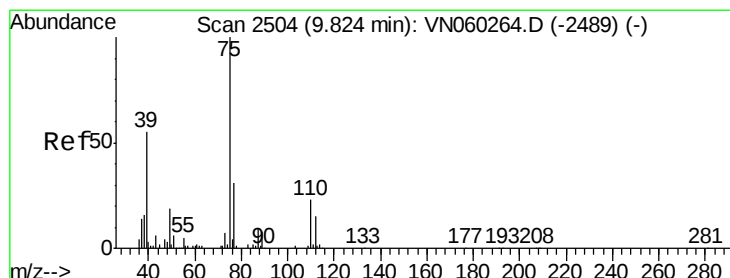
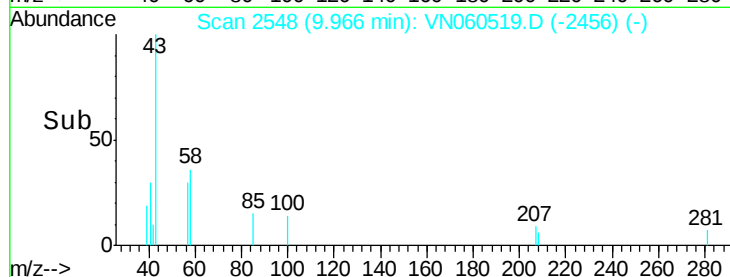
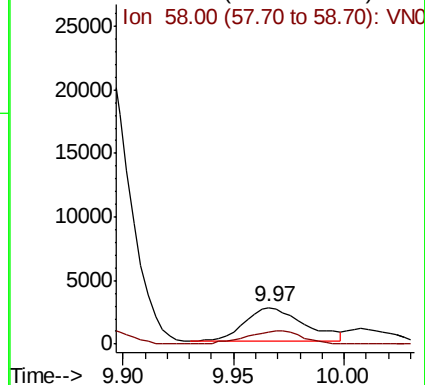
43 100

58 37.0 30.9 46.3



Abundance Ion 43.00 (42.70 to 43.70): VN060519.D (-2456) (-)

Ion 58.00 (57.70 to 58.70): VN060519.D (-2456) (-)



#54

cis-1,3-Dichloropropene

Concen: 4.694 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060519.D

Acq: 16 Mar 2020 13:44

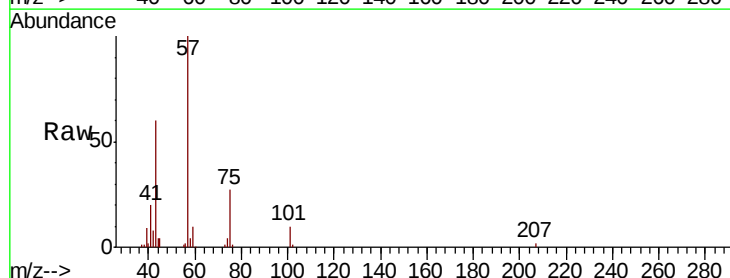
Tgt Ion: 75 Resp: 20854

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

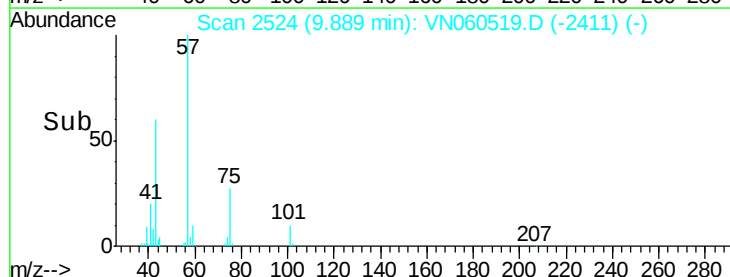
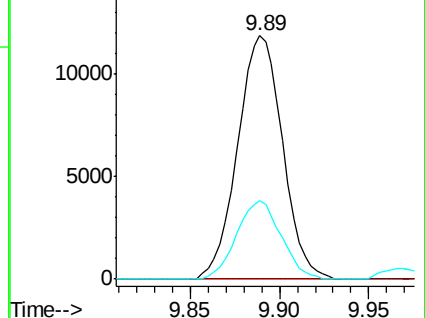
39 32.1 43.8 65.8#

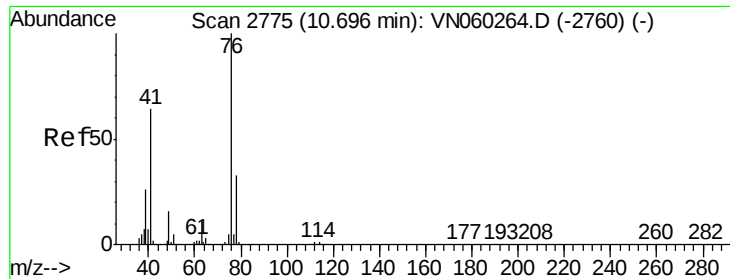


Abundance Ion 74.90 (74.60 to 75.60): VN060519.D (-2411) (-)

Ion 76.90 (76.60 to 77.60): VN060519.D (-2411) (-)

Ion 39.00 (38.70 to 39.70): VN060519.D (-2411) (-)

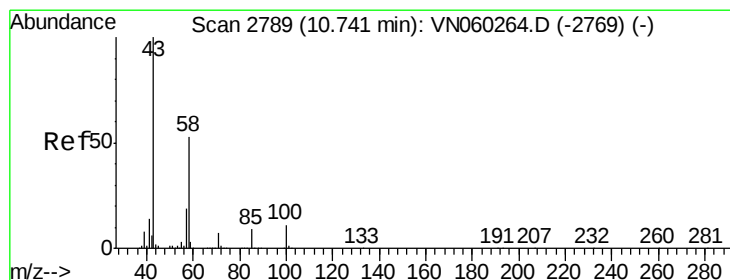
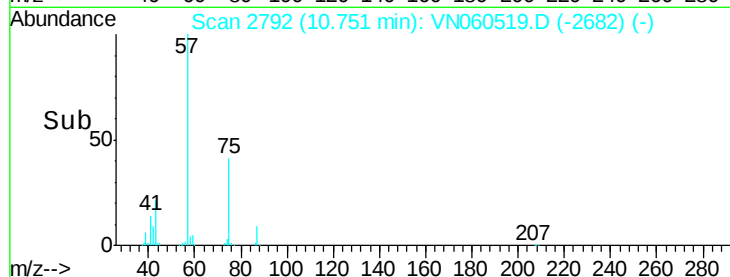
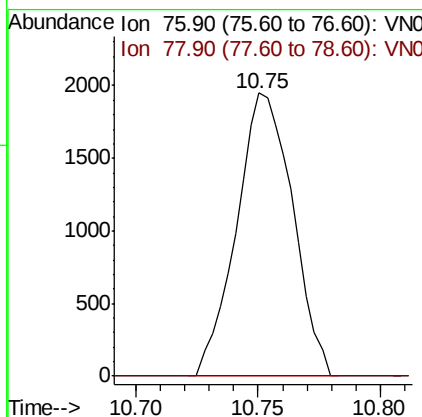
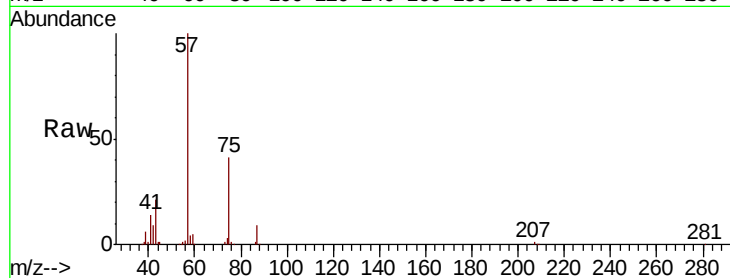




#57
 1,3-Dichloropropane
 Concen: 0.743 ug/l
 RT: 10.75 min Scan# 2792
 Delta R.T. 0.05 min
 Lab File: VN060519.D
 Acq: 16 Mar 2020 13:44

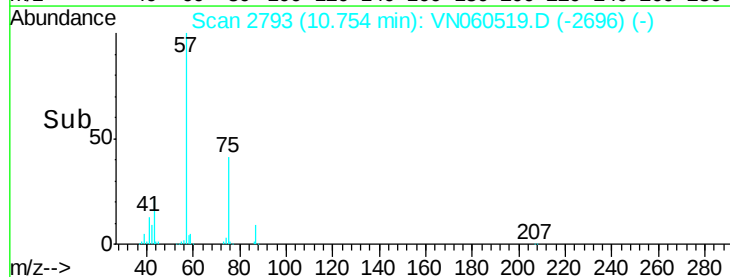
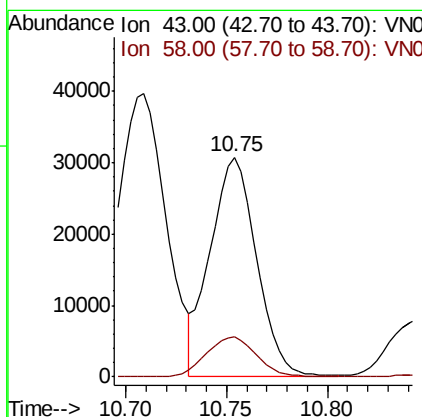
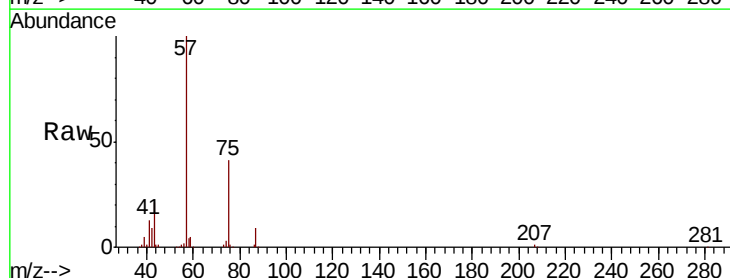
Instrument :
 MSVOA_N
 ClientSampleId :
 PB127541TB

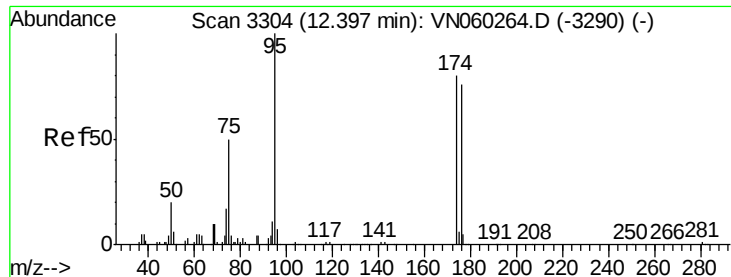
Tot Ion: 76 Resp: 3105
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.2 39.2#



#59
 2-Hexanone
 Concen: 20.490 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.01 min
 Lab File: VN060519.D
 Acq: 16 Mar 2020 13:44

Tgt Ion: 43 Resp: 49269
 Ion Ratio Lower Upper
 43 100
 58 19.5 26.5 79.5#





#62

4-Bromofluorobenzene

Concen: 51.562 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060519.D

Acq: 16 Mar 2020 13:44

Instrument :

MSVOA_N

ClientSampled :

PB127541TB

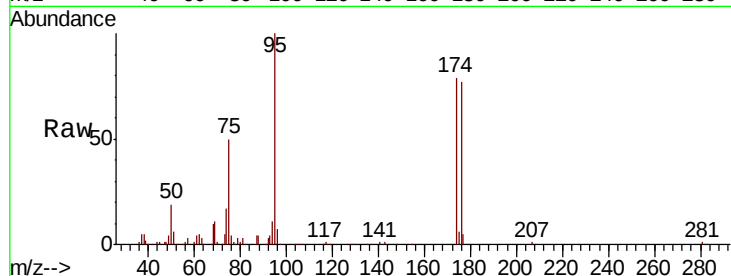
Tot Ion: 95 Resp: 167883

Ion Ratio Lower Upper

95 100

174 78.7 0.0 159.2

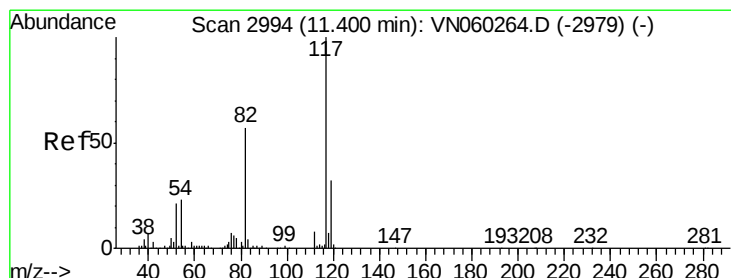
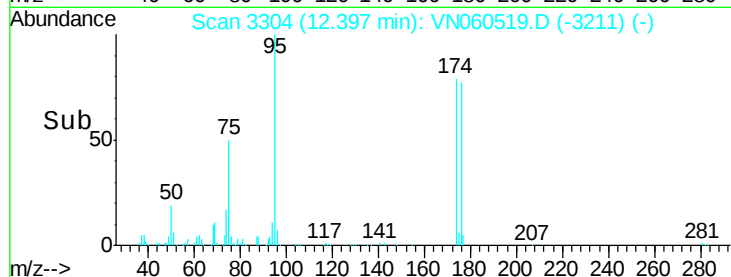
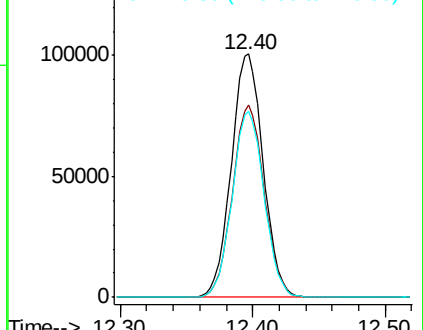
176 76.4 0.0 153.8



Abundance Ion 94.90 (94.60 to 95.60): VN060519.D (-3211) (-)

Ion 173.80 (173.50 to 174.50): VN060519.D (-3211) (-)

Ion 175.80 (175.50 to 176.50): VN060519.D (-3211) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060519.D

Acq: 16 Mar 2020 13:44

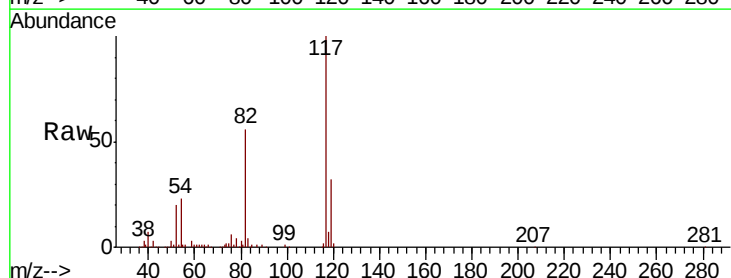
Tgt Ion: 117 Resp: 344465

Ion Ratio Lower Upper

117 100

82 56.3 45.8 68.6

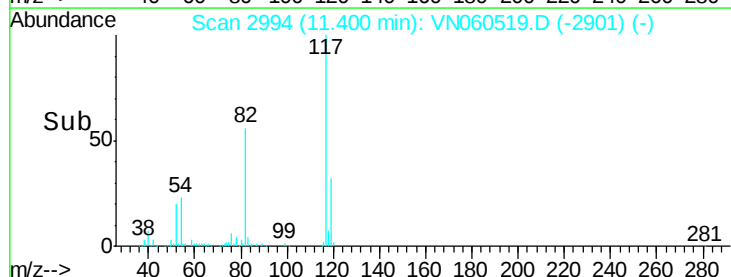
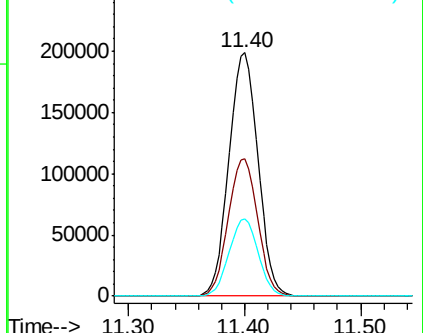
119 32.0 25.8 38.8

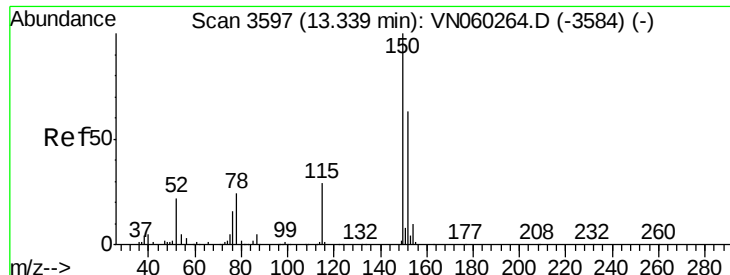


Abundance Ion 116.90 (116.60 to 117.60): VN060519.D (-2901) (-)

Ion 82.00 (81.70 to 82.70): VN060519.D (-2901) (-)

Ion 118.90 (118.60 to 119.60): VN060519.D (-2901) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN060519.D

Acq: 16 Mar 2020 13:44

Instrument :

MSVOA_N

ClientSampleId :

PB127541TB

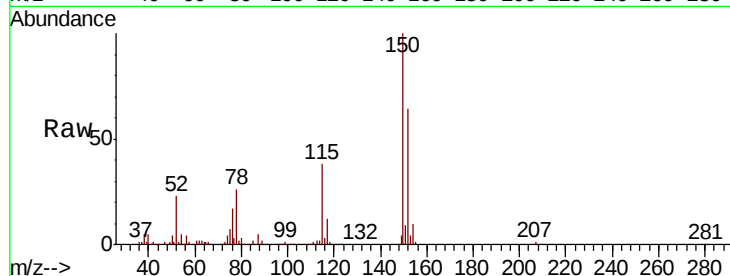
Tot Ion:152 Resp: 154083

Ion Ratio Lower Upper

152 100

115 59.9 30.0 90.0

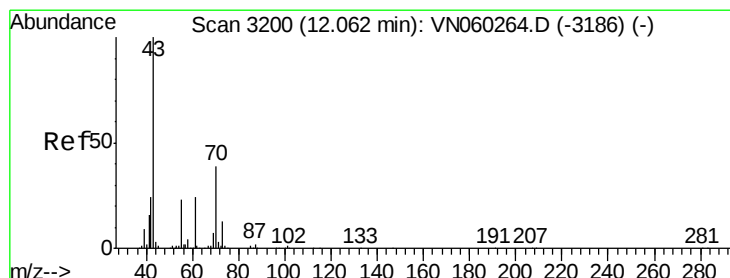
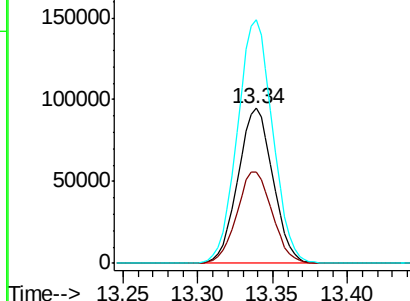
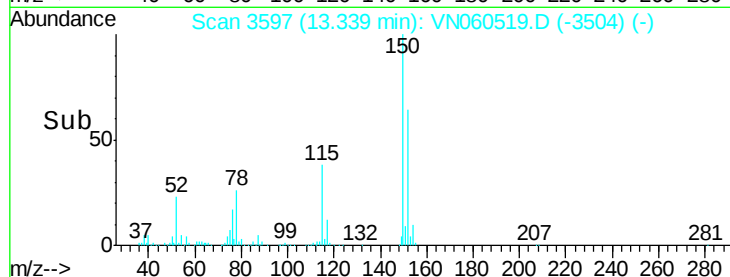
150 158.7 0.0 349.6



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: 0.797 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN060519.D

Acq: 16 Mar 2020 13:44

Tgt Ion: 43 Resp: 3975

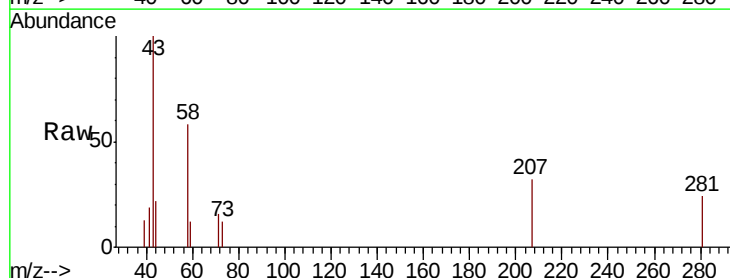
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.2#

55 0.0 18.2 27.4#

61 0.0 19.2 28.8#

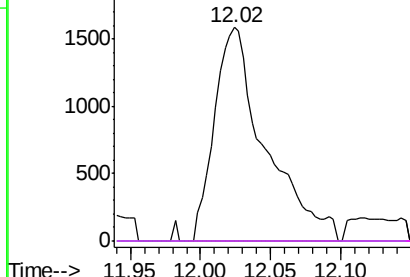
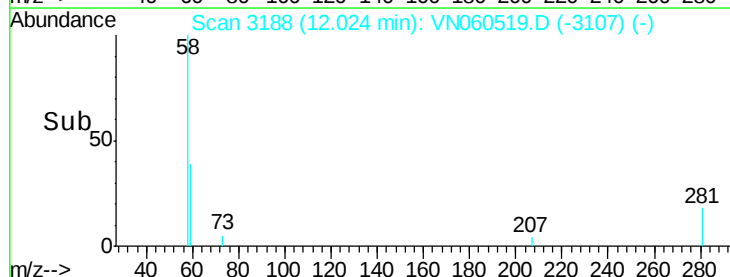


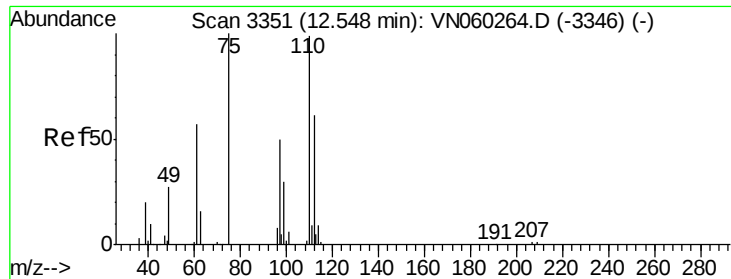
Abundance Ion 43.00 (42.70 to 43.70): V

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

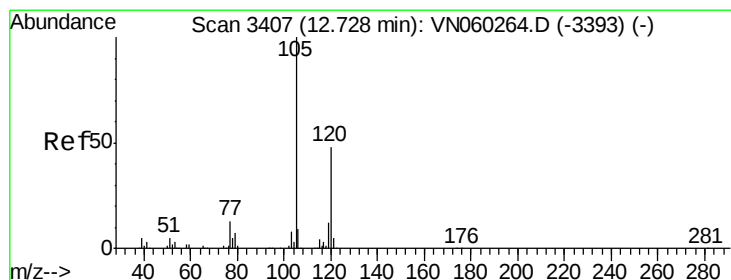
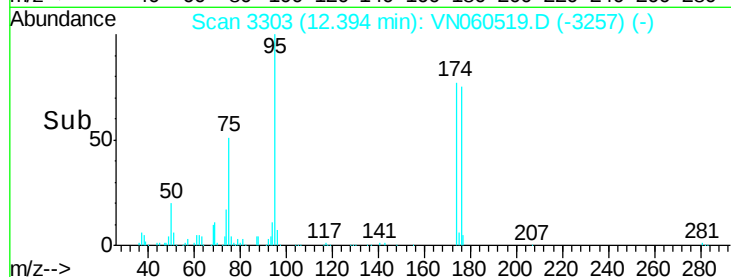
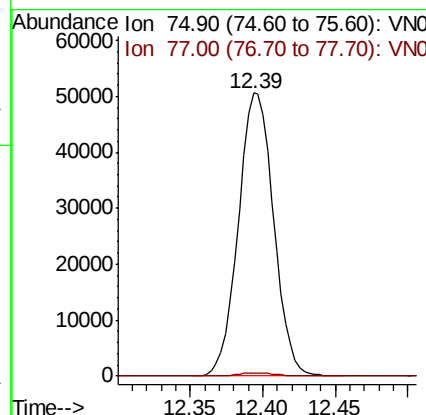
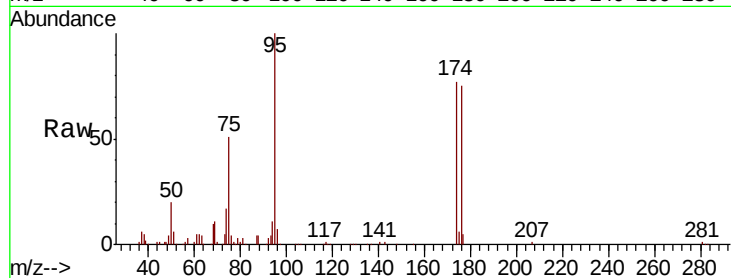




#76
 1,2,3-Trichloropropane
 Concen: 25.243 ug/l
 RT: 12.39 min Scan# 3303
 Delta R.T. -0.15 min
 Lab File: VN060519.D
 Acq: 16 Mar 2020 13:44

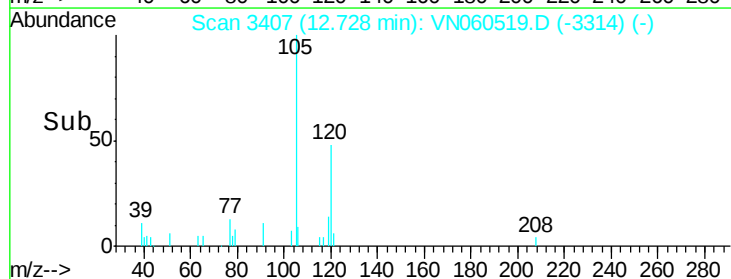
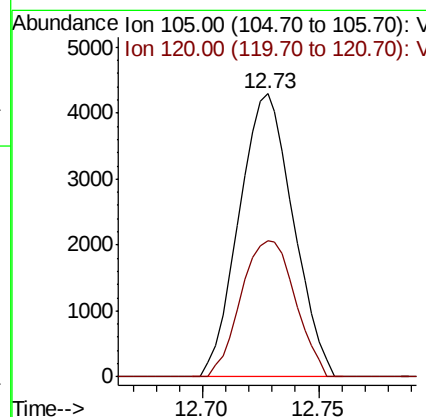
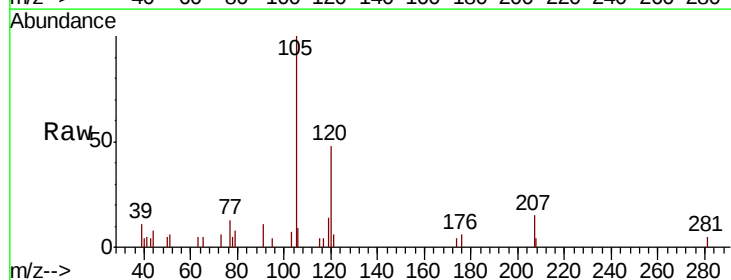
Instrument :
 MSVOA_N
 ClientSampled :
 PB127541TB

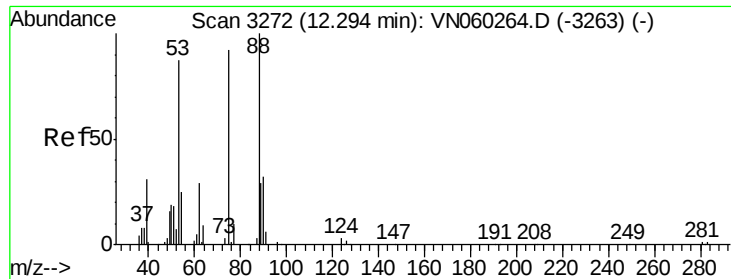
Tot Ion: 75 Resp: 85335
 Ion Ratio Lower Upper
 75 100
 77 1.2 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.723 ug/l
 RT: 12.73 min Scan# 3407
 Delta R.T. 0.00 min
 Lab File: VN060519.D
 Acq: 16 Mar 2020 13:44

Tgt Ion: 105 Resp: 6952
 Ion Ratio Lower Upper
 105 100
 120 48.1 24.1 72.4





#81

trans-1,4-Dichloro-2-butene

Concen: 69.682 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.10 min

Lab File: VN060519.D

Acq: 16 Mar 2020 13:44

Instrument :

MSVOA_N

ClientSampleId :

PB127541TB

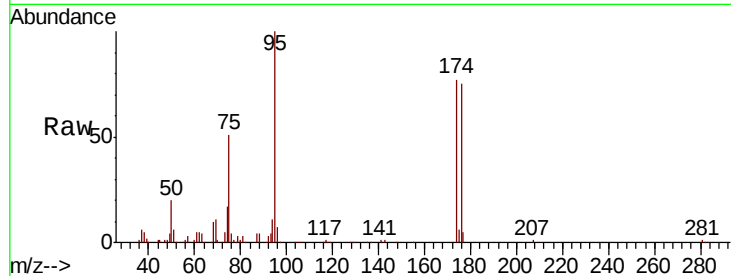
Tot Ion: 75 Resp: 85335

Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

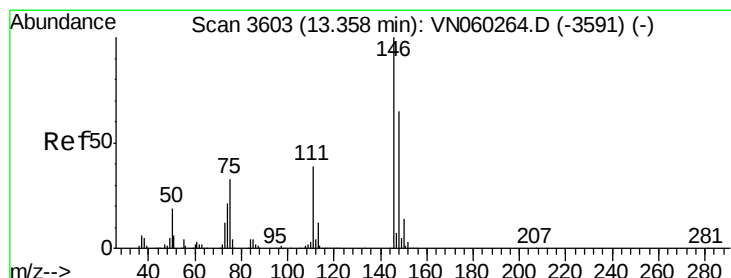
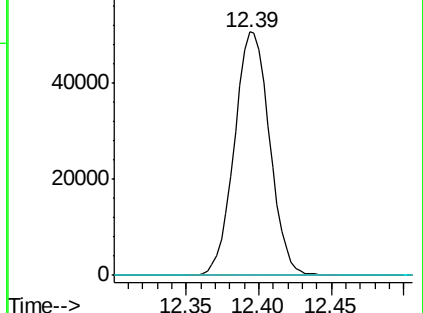
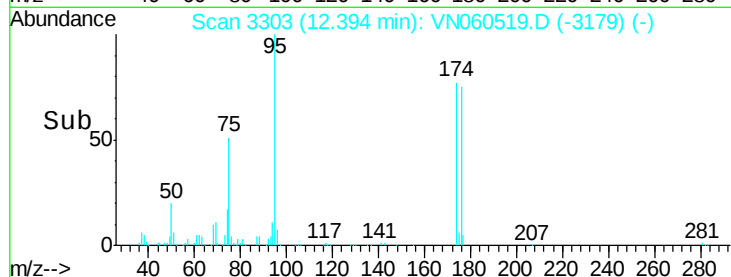
89 0.0 57.1 85.7#



Abundance Ion 74.90 (74.60 to 75.60): VN060519.D (-3179) (-)

Ion 53.00 (52.70 to 53.70): VN060519.D (-3179) (-)

Ion 88.90 (88.60 to 89.60): VN060519.D (-3179) (-)



#88

1,4-Dichlorobenzene

Concen: Below Cal

RT: 13.36 min Scan# 3603

Delta R.T. 0.00 min

Lab File: VN060519.D

Acq: 16 Mar 2020 13:44

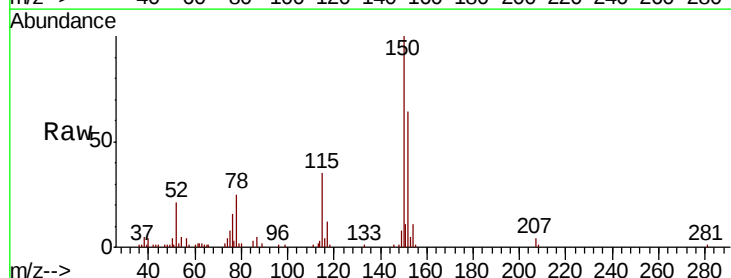
Tgt Ion: 146 Resp: 573

Ion Ratio Lower Upper

146 100

111 0.0 19.8 59.4#

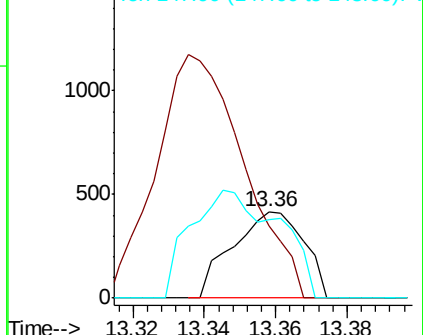
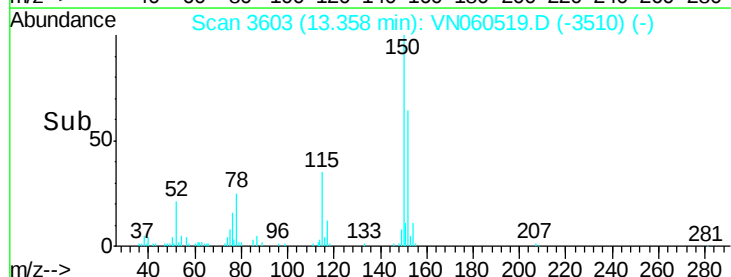
148 0.0 32.3 96.9#

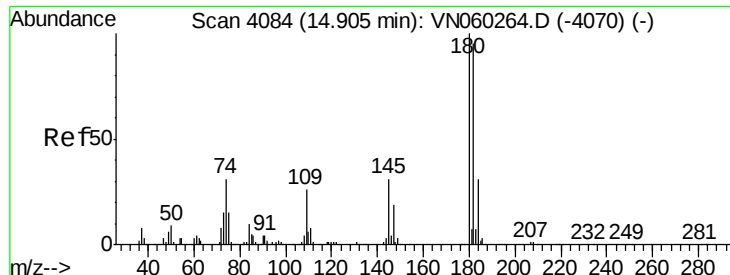


Abundance Ion 145.90 (145.60 to 146.60): VN060519.D (-3510) (-)

Ion 110.90 (110.60 to 111.60): VN060519.D (-3510) (-)

Ion 147.90 (147.60 to 148.60): VN060519.D (-3510) (-)

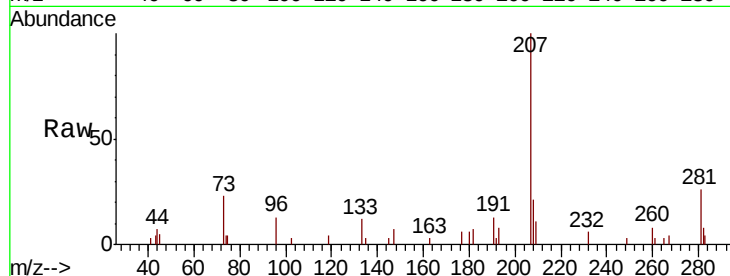




#93
 1,2,4-Trichlorobenzene
 Concen: 0.257 ug/l
 RT: 14.90 min Scan# 4084
 Delta R.T. 0.00 min
 Lab File: VN060519.D
 Acq: 16 Mar 2020 13:44

Instrument :
 MSVOA_N
 ClientSampleId :
 PB127541TB

Tot Ion	Ratio	Lower	Upper
180	100		
182	104.4	47.8	143.3
145	12.0	15.4	46.1



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

