

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031620\
 Data File : VN060539.D
 Acq On : 16 Mar 2020 21:16
 Operator : JC/MD
 Sample : PB127541ZHE#12
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB127541ZHE#12

Quant Time: Mar 17 08:48:51 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	203217	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	340172	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	319917	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	145699	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	131847	50.57	ug/l	0.00
Spiked Amount						
35) Dibromofluoromethane	7.56	113	101608	64.35	ug/l	0.00
Spiked Amount						
50) Toluene-d8	10.08	98	421434	52.74	ug/l	0.00
Spiked Amount						
62) 4-Bromofluorobenzene	12.40	95	156219	51.57	ug/l	0.00
Spiked Amount						

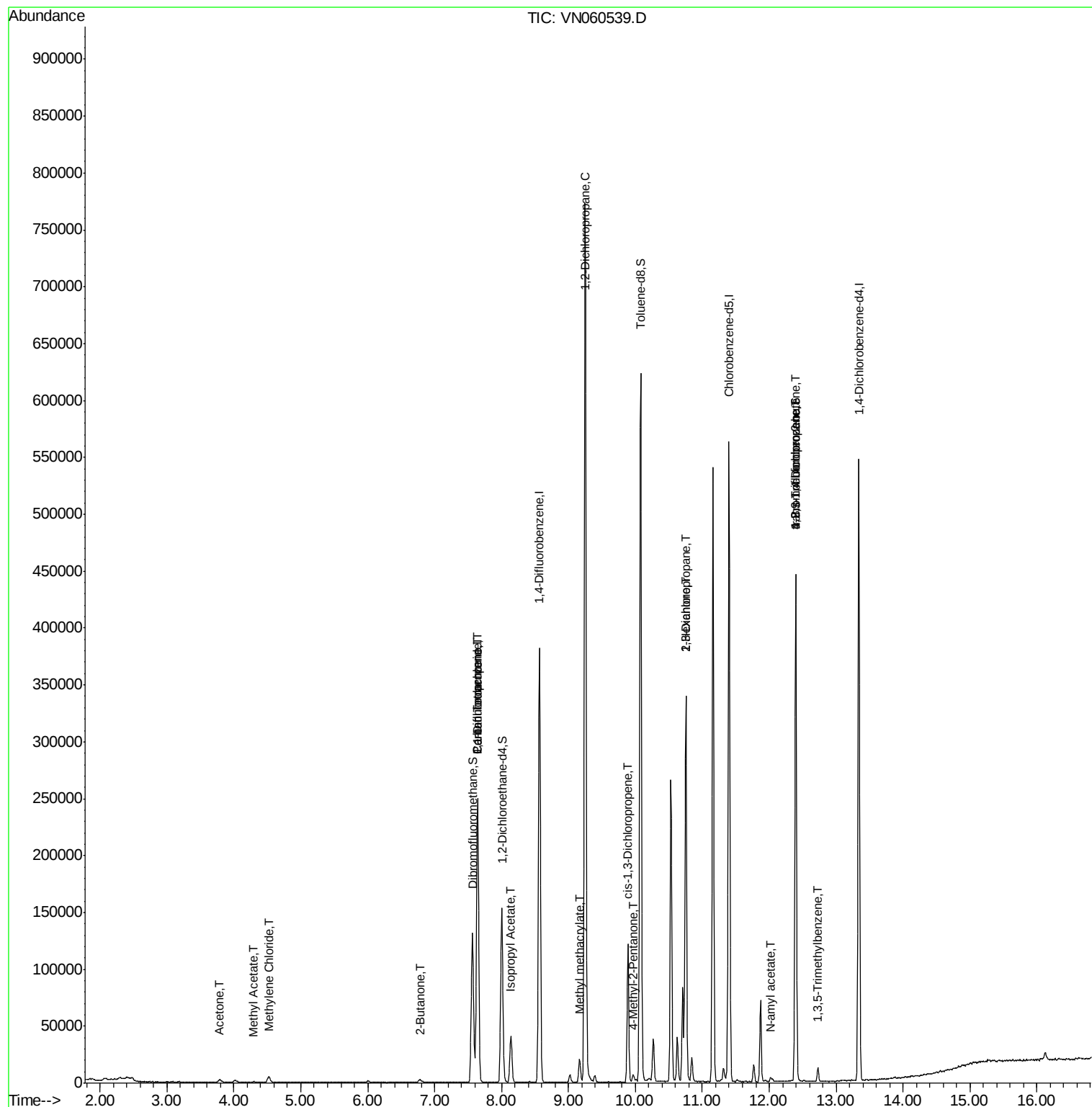
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	5397	6.410	ug/l	98
18) Methyl Acetate	4.29	43	650	0.231	ug/l	95
20) Methylene Chloride	4.53	84	4154	1.796	ug/l	94
25) 2-Butanone	6.79	43	458	0.337	ug/l #	49
31) Cyclohexane	7.64	56	4242	Below Cal	#	1
36) 1,1-Dichloropropene	7.64	75	15783	4.868	ug/l #	49
38) Carbon Tetrachloride	7.64	117	19705	6.243	ug/l #	16
43) Isopropyl Acetate	8.14	43	49989	9.302	ug/l #	90
45) 1,2-Dichloropropane	9.25	63	894	0.362	ug/l #	44
48) Methyl methacrylate	9.16	41	3672	1.498	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	4906	1.610	ug/l	100
54) cis-1,3-Dichloropropene	9.89	75	21018	5.084	ug/l #	58
57) 1,3-Dichloropropane	10.75	76	3374	0.868	ug/l #	42
59) 2-Hexanone	10.75	43	50312	22.489	ug/l #	53
74) N-amyl acetate	12.02	43	3366	0.713	ug/l #	44
76) 1,2,3-Trichloropropane	12.40	75	79206	24.778	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	7241	0.796	ug/l	95
81) trans-1,4-Dichloro-2-buten	12.40	75	79206	68.399	ug/l #	8

(#) = 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: VN060539.D

Acq: 16 Mar 2020 21:16

Instrument :

MSVOA_N

ClientSampleId :

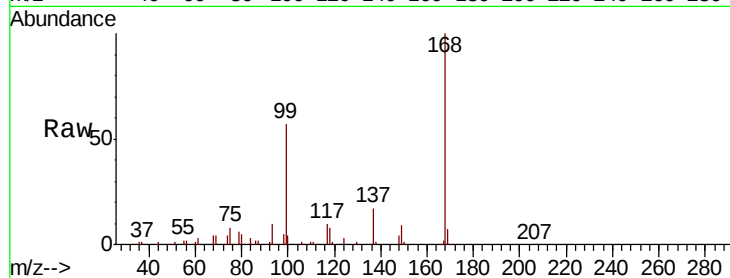
PB127541ZHE#12

Tot Ion:168 Resp: 203217

Ion Ratio Lower Upper

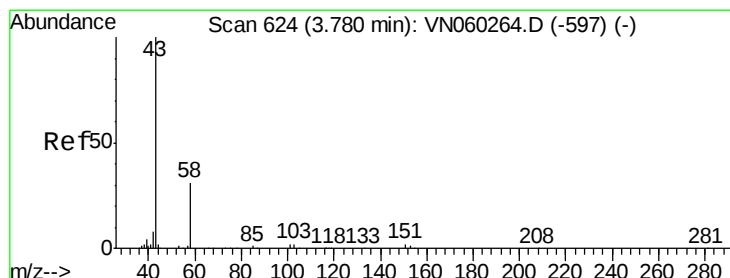
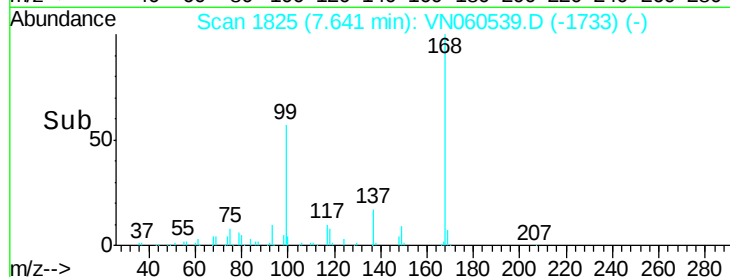
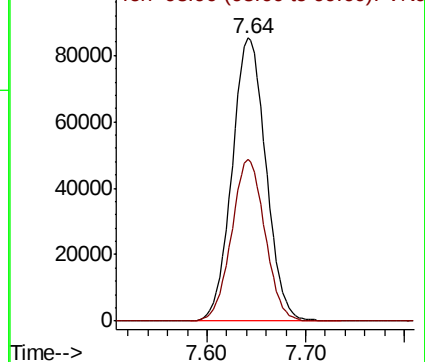
168 100

99 57.4 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): VN060539.D (-1733) (-)

Ion 98.90 (98.60 to 99.60): VN060539.D (-1733) (-)



#16

Acetone

Concen: 6.410 ug/l

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN060539.D

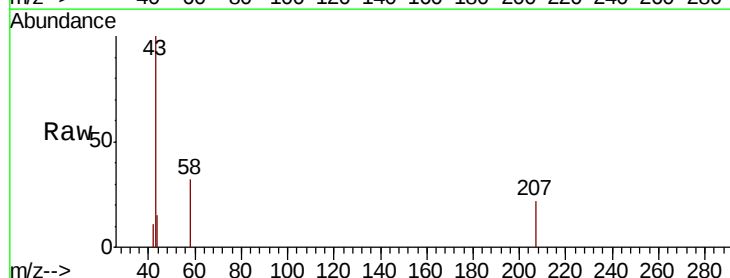
Acq: 16 Mar 2020 21:16

Tgt Ion: 43 Resp: 5397

Ion Ratio Lower Upper

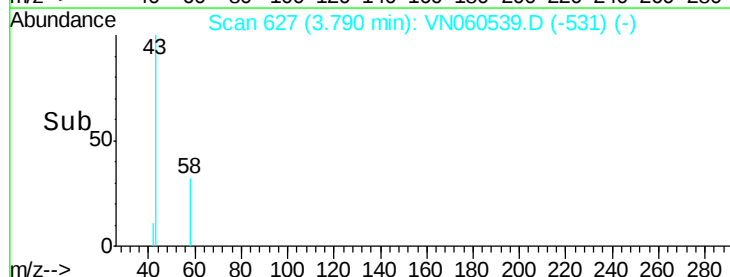
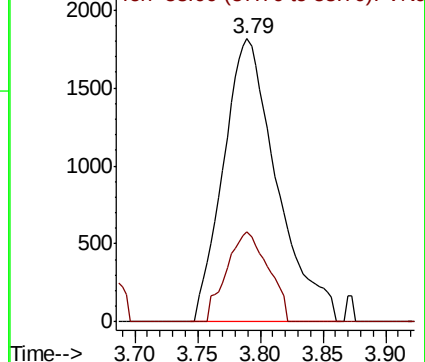
43 100

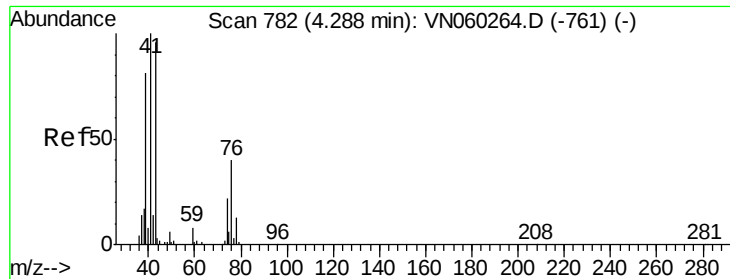
58 31.9 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VN060539.D (-531) (-)

Ion 58.00 (57.70 to 58.70): VN060539.D (-531) (-)

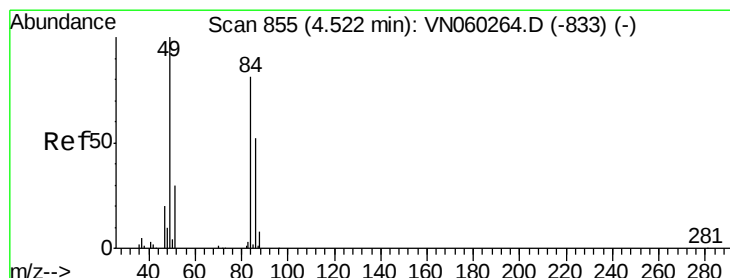
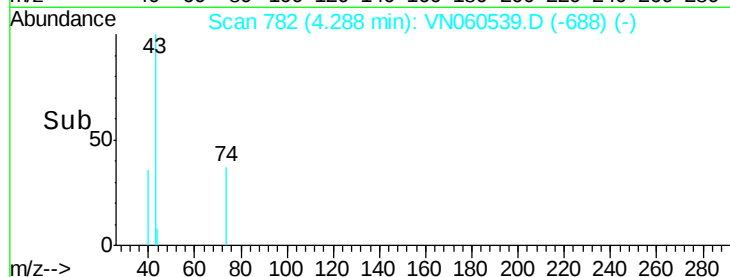
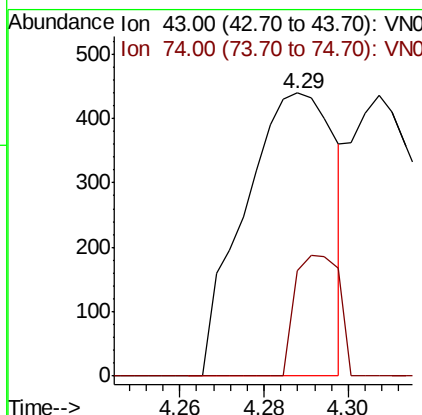
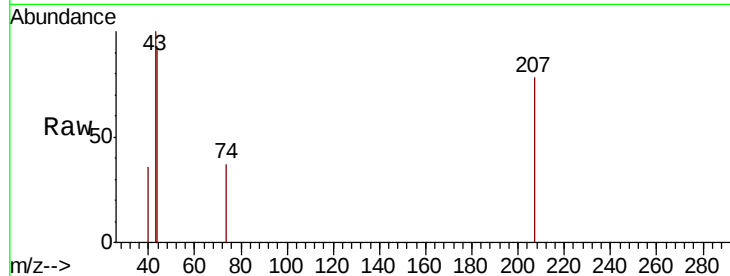




#18
Methvl Acetate
Concen: 0.231 ug/l
RT: 4.29 min Scan# 782
Delta R.T. 0.00 min
Lab File: VN060539.D
Acq: 16 Mar 2020 21:16

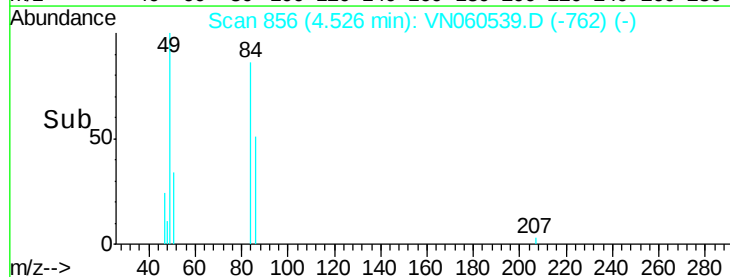
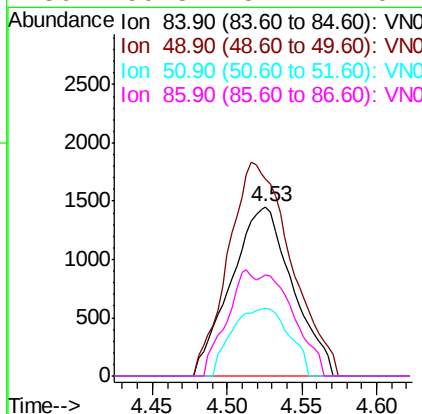
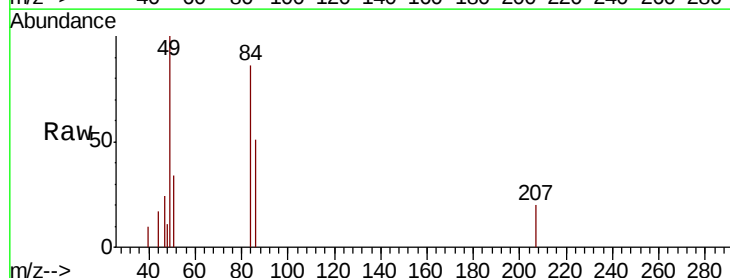
Instrument :
MSVOA_N
ClientSampleId :
PB127541ZHE#12

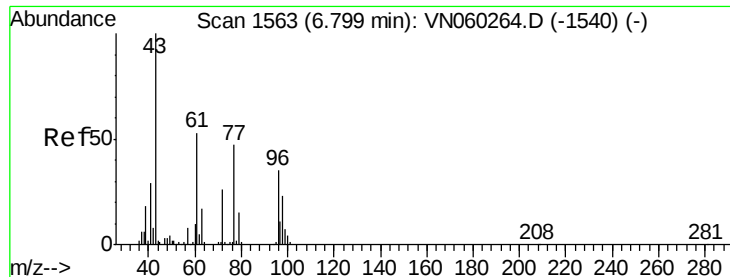
Tot Ion: 43 Resp: 650
Ion Ratio Lower Upper
43 100
74 20.9 18.8 28.2



#20
Methylene Chloride
Concen: 1.796 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN060539.D
Acq: 16 Mar 2020 21:16

Tgt Ion: 84 Resp: 4154
Ion Ratio Lower Upper
84 100
49 116.7 99.3 148.9
51 39.9 30.1 45.1
86 59.8 51.1 76.7





#25

2-Butanone

Concen: 0.337 ug/l

RT: 6.79 min Scan# 1560

Delta R.T. -0.01 min

Lab File: VN060539.D

Acq: 16 Mar 2020 21:16

Instrument :

MSVOA_N

ClientSampleId :

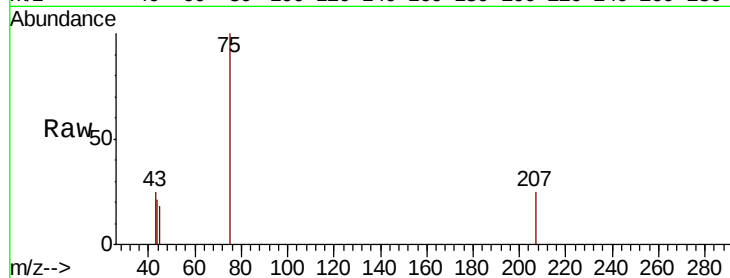
PB127541ZHE#12

Tot Ion: 43 Resp: 458

Ion Ratio Lower Upper

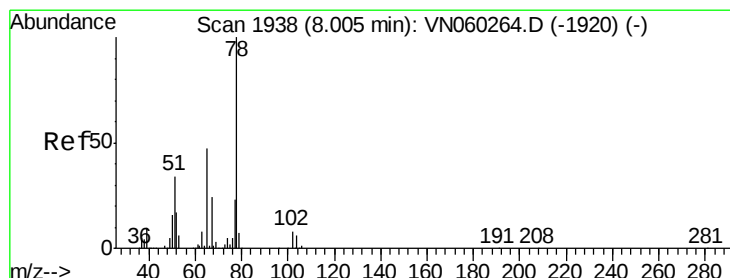
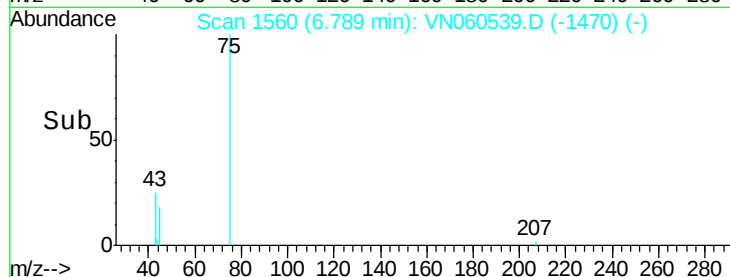
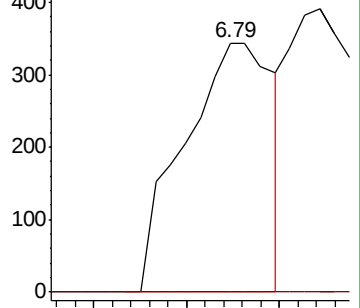
43 100

72 0.0 20.9 31.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 50.568 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. 0.00 min

Lab File: VN060539.D

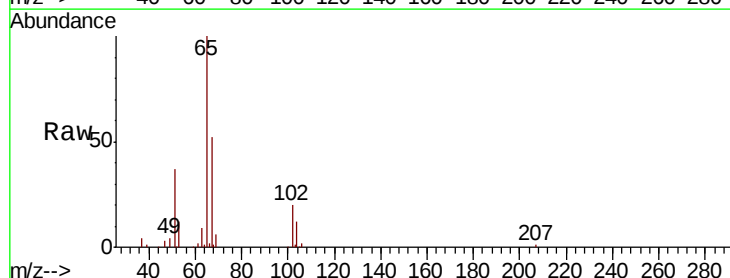
Acq: 16 Mar 2020 21:16

Tgt Ion: 65 Resp: 131847

Ion Ratio Lower Upper

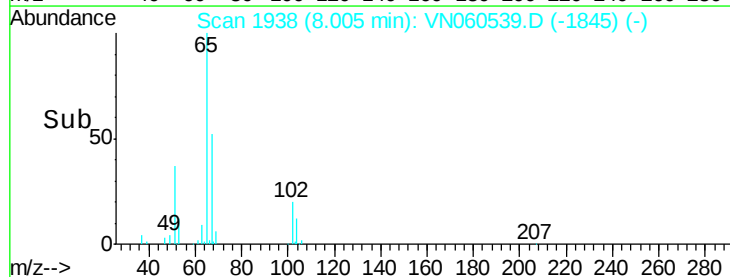
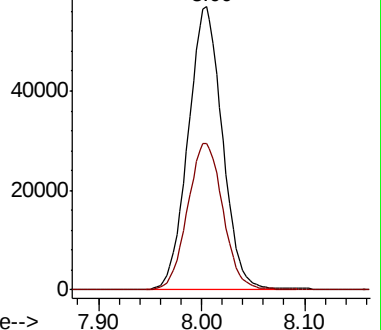
65 100

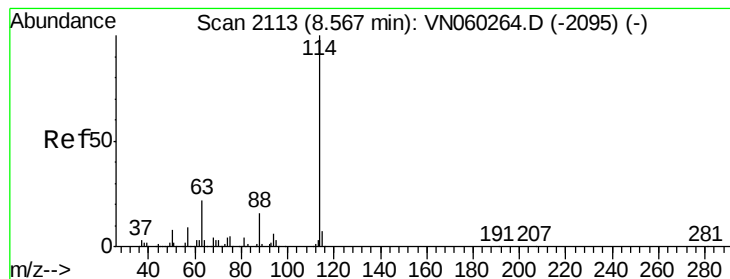
67 53.5 0.0 103.8



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: 8.57 min Scan# 2113

Delta R.T. 0.00 min

Lab File: VN060539.D

Acq: 16 Mar 2020 21:16

Instrument :

MSVOA_N

ClientSampleId :

PB127541ZHE#12

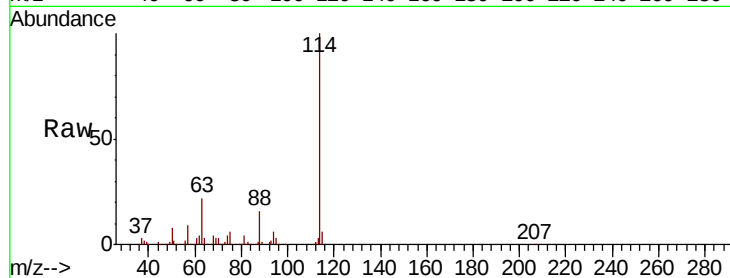
Tot Ion:114 Resp: 340172

Ion Ratio Lower Upper

114 100

63 21.7 0.0 43.2

88 16.2 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

8.57

200000

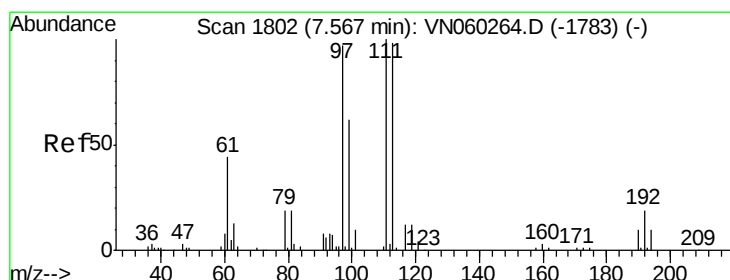
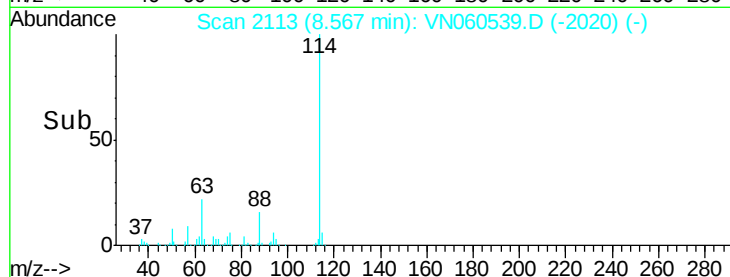
150000

100000

50000

0

Time--> 8.45 8.50 8.55 8.60 8.65



#35

Dibromofluoromethane

Concen: 64.351 ug/l

RT: 7.56 min Scan# 1801

Delta R.T. -0.00 min

Lab File: VN060539.D

Acq: 16 Mar 2020 21:16

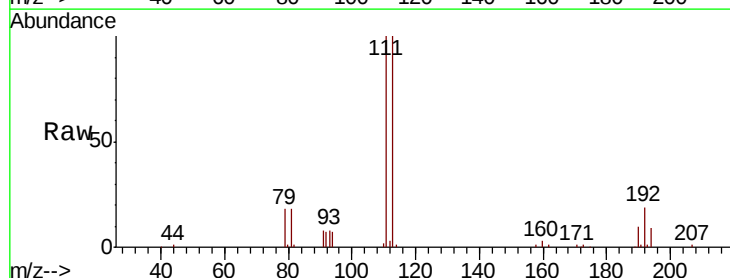
Tgt Ion:113 Resp: 101608

Ion Ratio Lower Upper

113 100

111 101.8 82.4 123.6

192 19.8 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

7.56

50000

40000

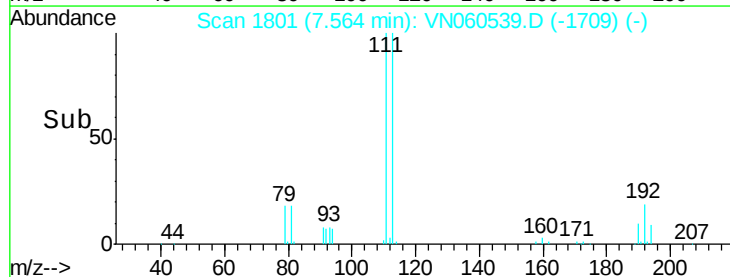
30000

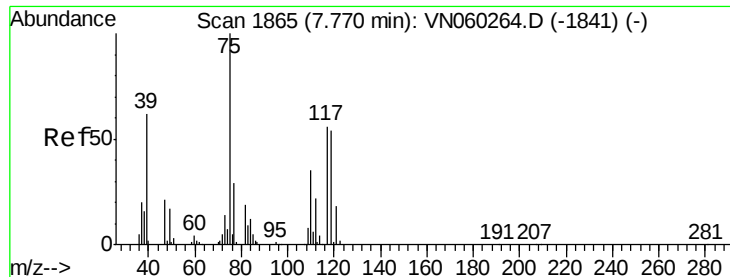
20000

10000

0

Time--> 7.50 7.60 7.70





#36

1,1-Dichloropropene

Concen: 4.868 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.13 min

Lab File: VN060539.D

Acq: 16 Mar 2020 21:16

Instrument :

MSVOA_N

ClientSampleId :

PB127541ZHE#12

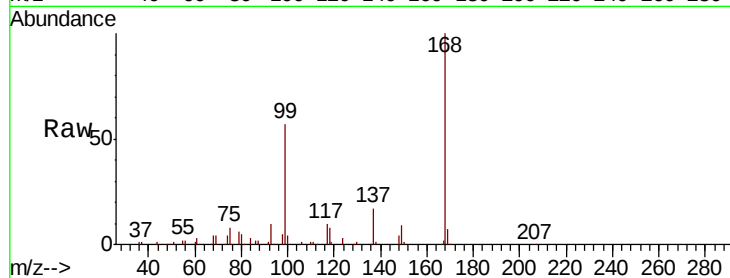
Tot Ion: 75 Resp: 15783

Ion Ratio Lower Upper

75 100

110 7.4 17.3 52.0#

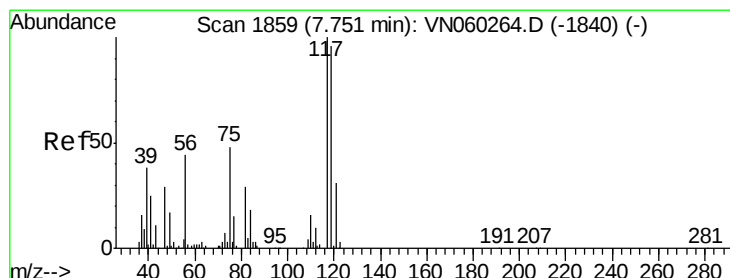
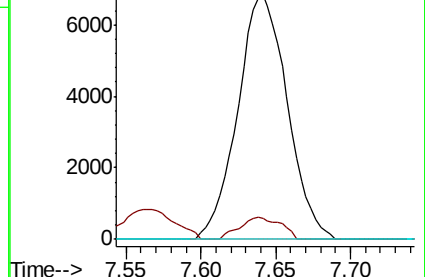
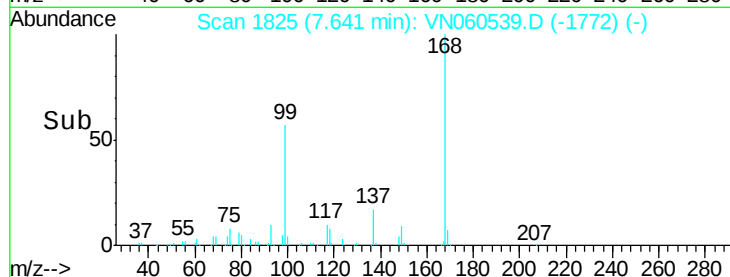
77 0.0 24.2 36.2#



Abundance Ion 74.90 (74.60 to 75.60): VN060539.D (-1772) (-)

Ion 109.90 (109.60 to 110.60): VN060539.D (-1772) (-)

Ion 76.90 (76.60 to 77.60): VN060539.D (-1772) (-)



#38

Carbon Tetrachloride

Concen: 6.243 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN060539.D

Acq: 16 Mar 2020 21:16

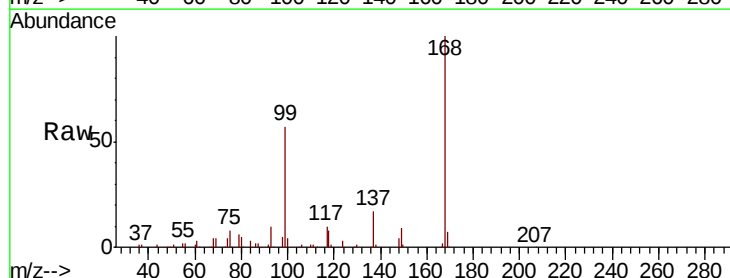
Tgt Ion: 117 Resp: 19705

Ion Ratio Lower Upper

117 100

119 5.8 76.7 115.1#

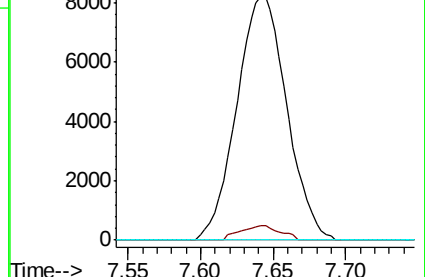
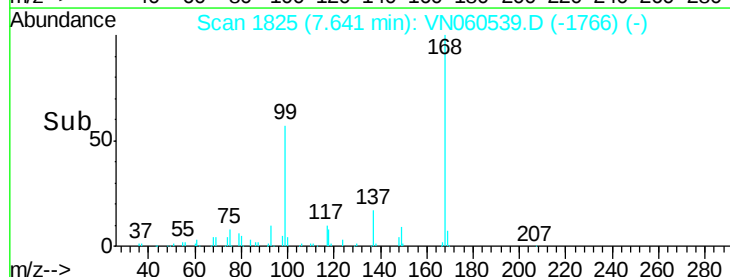
121 0.0 24.5 36.7#

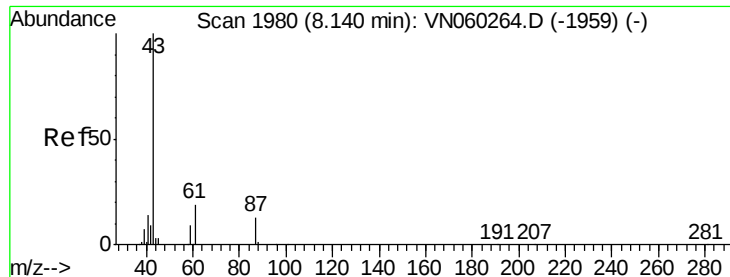


Abundance Ion 116.80 (116.50 to 117.50): VN060539.D (-1766) (-)

Ion 118.80 (118.50 to 119.50): VN060539.D (-1766) (-)

Ion 120.80 (120.50 to 121.50): VN060539.D (-1766) (-)





#43

Isopropyl Acetate

Concen: 9.302 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060539.D

Acq: 16 Mar 2020 21:16

Instrument :

MSVOA_N

ClientSampleId :

PB127541ZHE#12

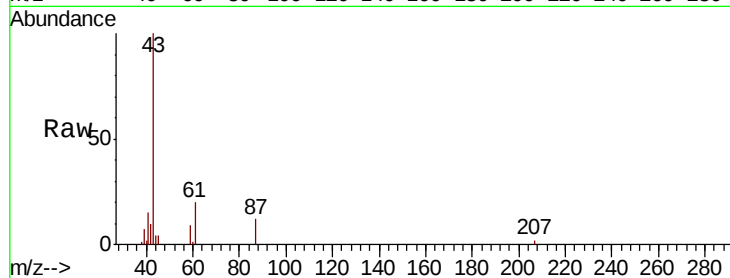
Tot Ion: 43 Resp: 49989

Ion Ratio Lower Upper

43 100

61 19.5 20.9 31.3#

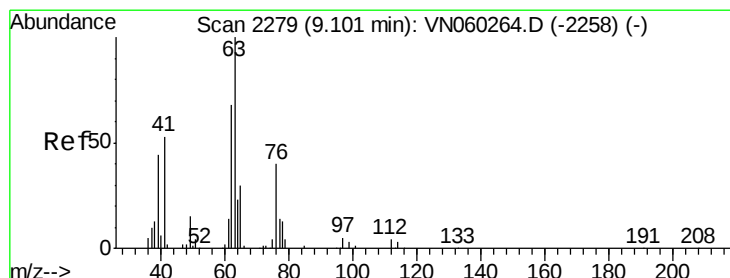
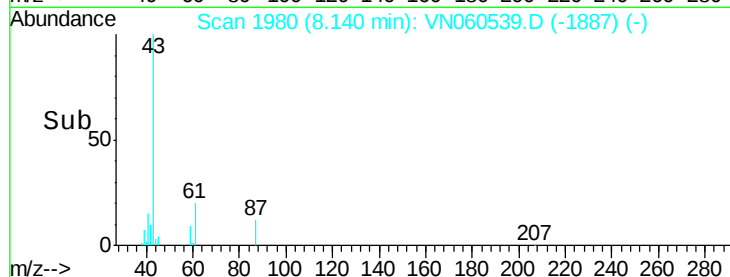
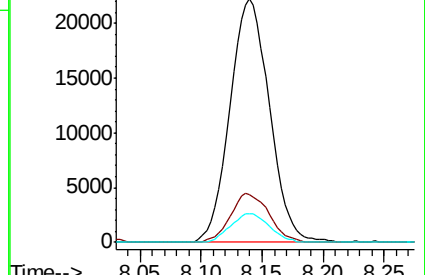
87 11.6 10.6 16.0



Abundance Ion 43.00 (42.70 to 43.70): VN060539.D (-1887) (-)

Ion 61.00 (60.70 to 61.70): VN060539.D (-1887) (-)

Ion 87.00 (86.70 to 87.70): VN060539.D (-1887) (-)



#45

1,2-Dichloropropane

Concen: 0.362 ug/l

RT: 9.25 min Scan# 2325

Delta R.T. 0.15 min

Lab File: VN060539.D

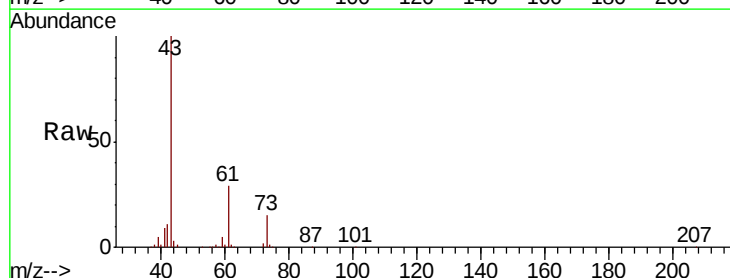
Acq: 16 Mar 2020 21:16

Tgt Ion: 63 Resp: 894

Ion Ratio Lower Upper

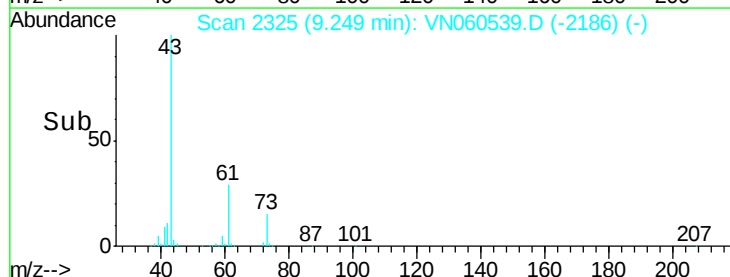
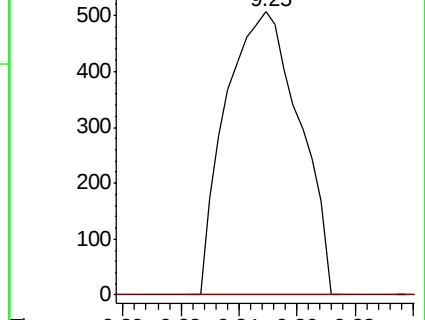
63 100

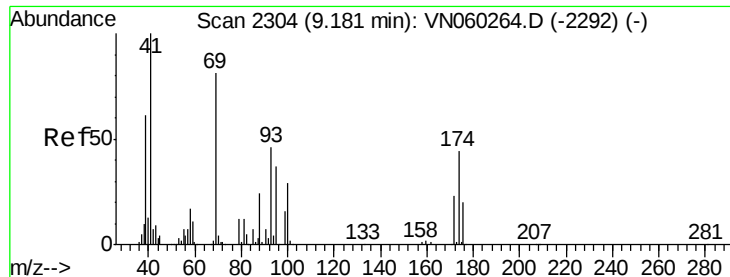
65 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VN060539.D (-2186) (-)

Ion 64.90 (64.60 to 65.60): VN060539.D (-2186) (-)

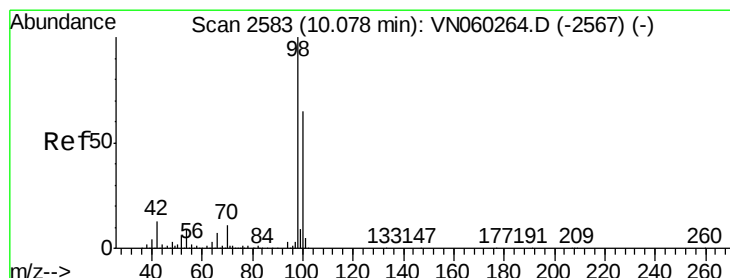
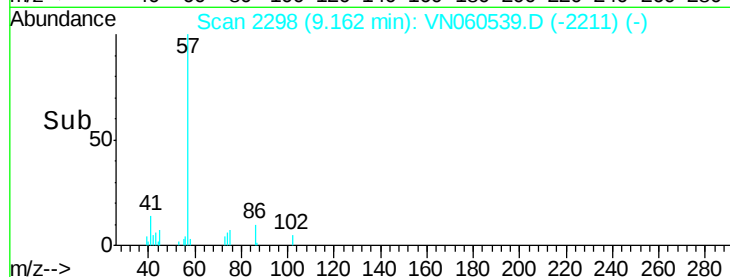
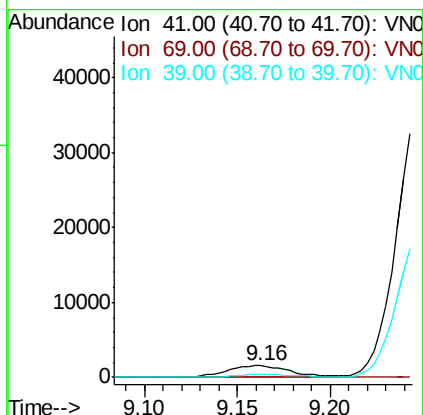
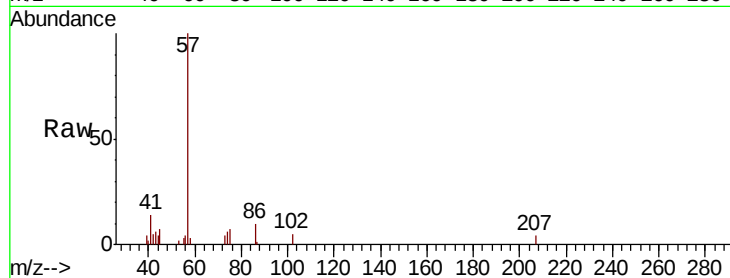




#48
Methvl methacrylate
Concen: 1.498 ug/l
RT: 9.16 min Scan# 2298
Delta R.T. -0.02 min
Lab File: VN060539.D
Acq: 16 Mar 2020 21:16

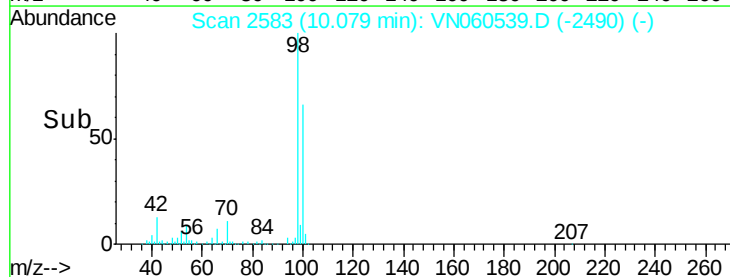
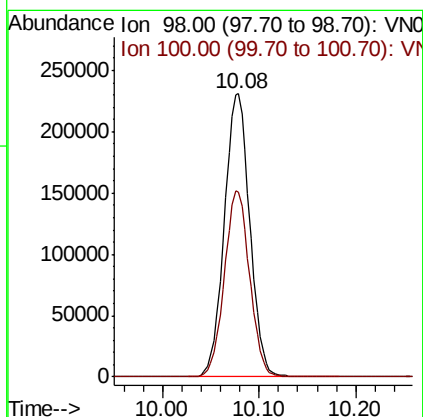
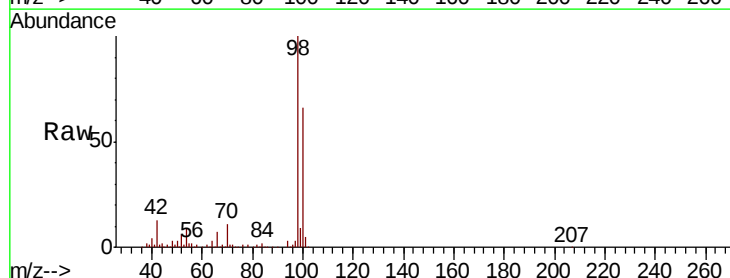
Instrument :
MSVOA_N
ClientSampleId :
PB127541ZHE#12

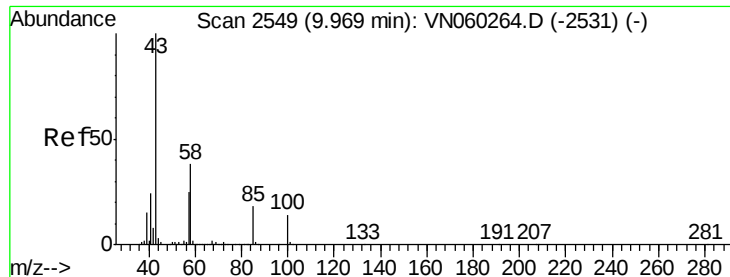
Tot Ion: 41 Resp: 3672
Ion Ratio Lower Upper
41 100
69 0.0 66.7 100.1#
39 0.0 50.1 75.1#



#50
Toluene-d8
Concen: 52.736 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN060539.D
Acq: 16 Mar 2020 21:16

Tgt Ion: 98 Resp: 421434
Ion Ratio Lower Upper
98 100
100 65.2 52.2 78.2

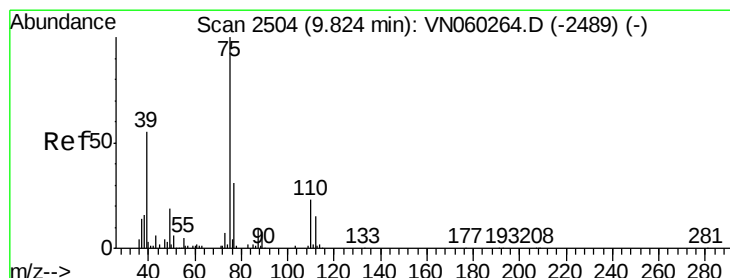
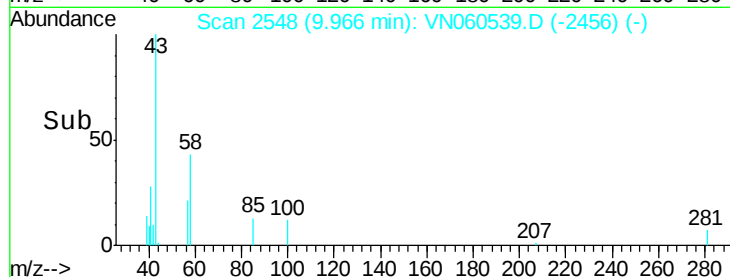
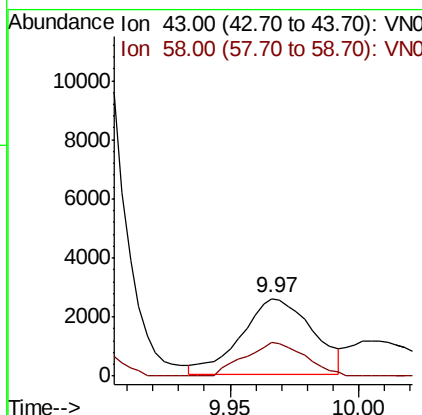
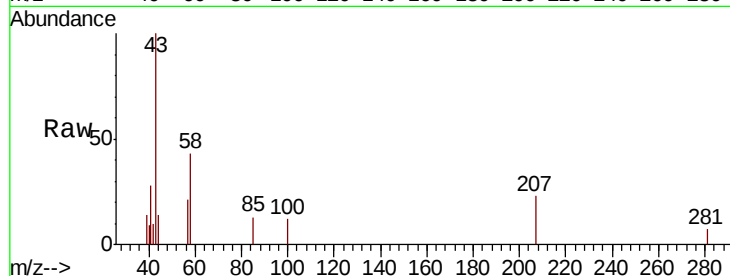




#51
 4-Methyl-2-Pentanone
 Concen: 1.610 ug/l
 RT: 9.97 min Scan# 2548
 Delta R.T. -0.00 min
 Lab File: VN060539.D
 Acq: 16 Mar 2020 21:16

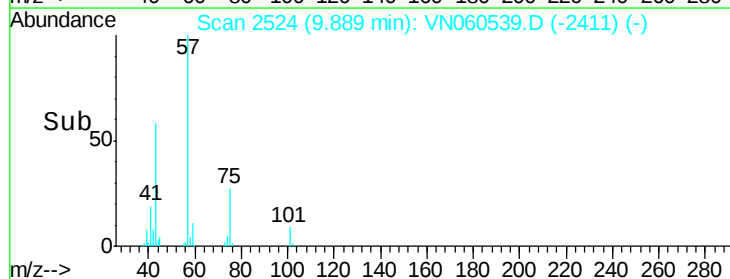
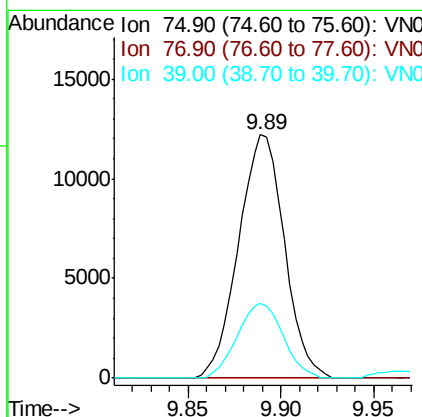
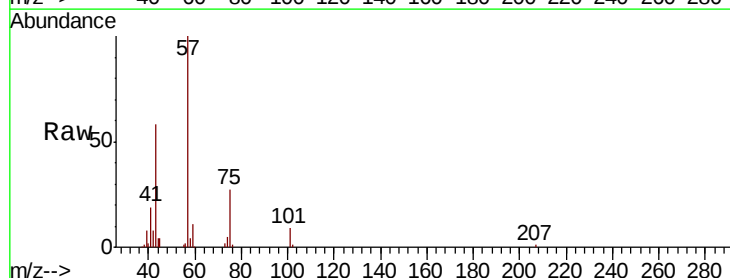
Instrument :
 MSVOA_N
 ClientSampleId :
 PB127541ZHE#12

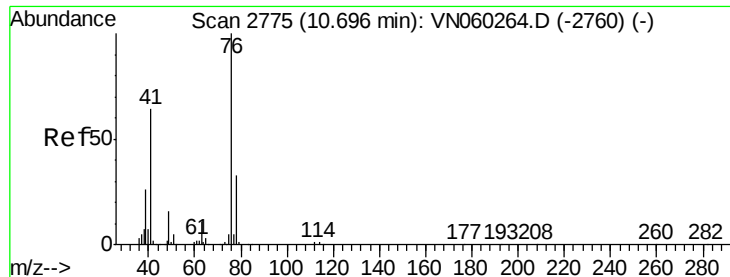
Tot Ion: 43 Resp: 4906
 Ion Ratio Lower Upper
 43 100
 58 38.4 30.9 46.3



#54
 cis-1,3-Dichloropropene
 Concen: 5.084 ug/l
 RT: 9.89 min Scan# 2524
 Delta R.T. 0.06 min
 Lab File: VN060539.D
 Acq: 16 Mar 2020 21:16

Tgt Ion: 75 Resp: 21018
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.8 37.2#
 39 30.5 43.8 65.8#





#57

1,3-Dichloropropane

Concen: 0.868 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060539.D

Acq: 16 Mar 2020 21:16

Instrument :

MSVOA_N

ClientSampleId :

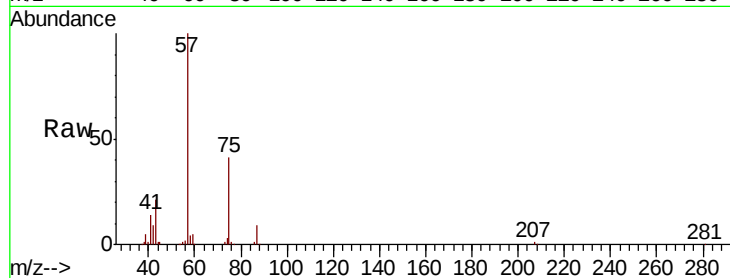
PB127541ZHE#12

Tot Ion: 76 Resp: 3374

Ion Ratio Lower Upper

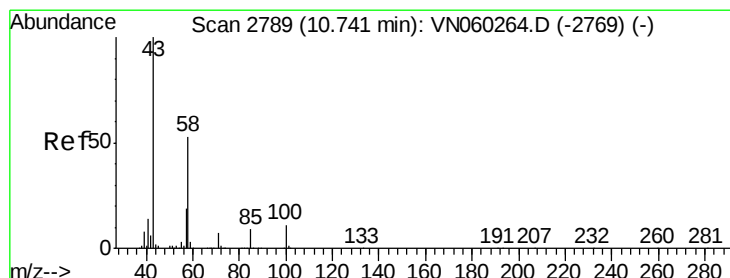
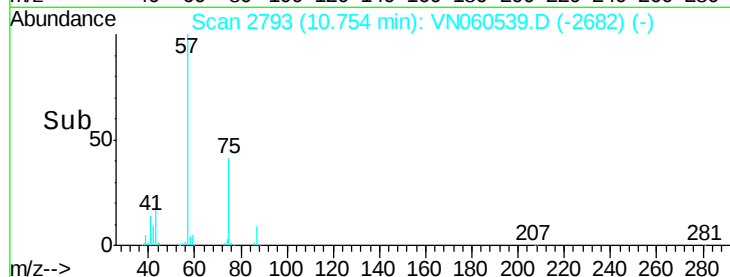
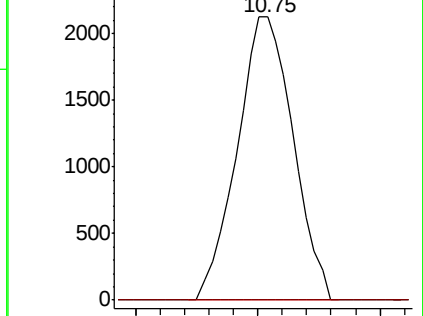
76 100

78 0.0 26.2 39.2#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 22.489 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN060539.D

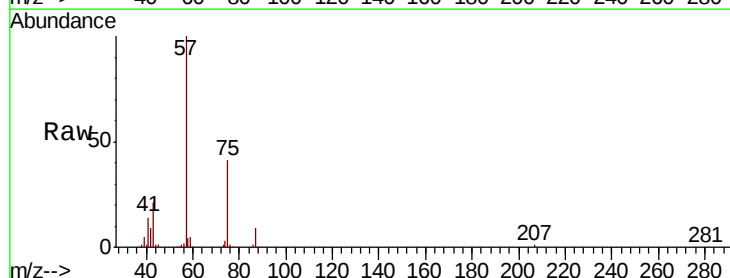
Acq: 16 Mar 2020 21:16

Tgt Ion: 43 Resp: 50312

Ion Ratio Lower Upper

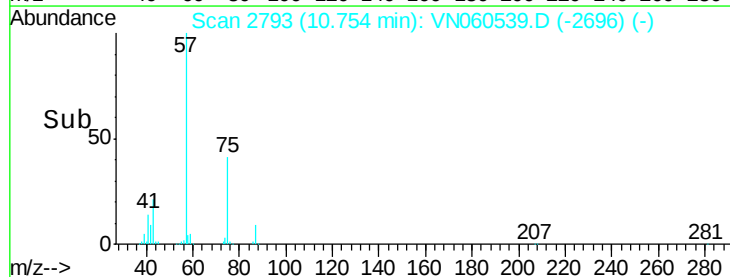
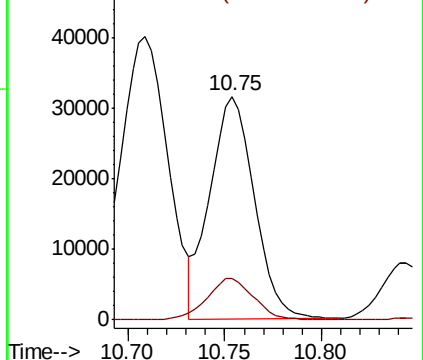
43 100

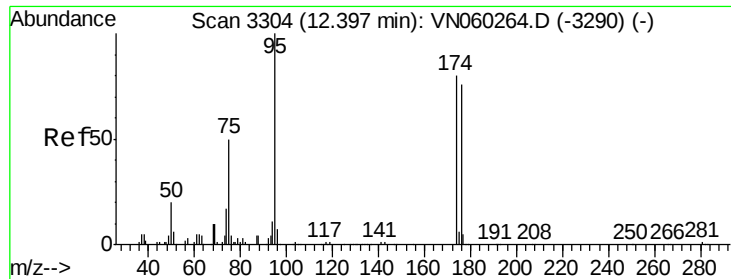
58 19.6 26.5 79.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 51.569 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060539.D

Acq: 16 Mar 2020 21:16

Instrument :

MSVOA_N

ClientSampleId :

PB127541ZHE#12

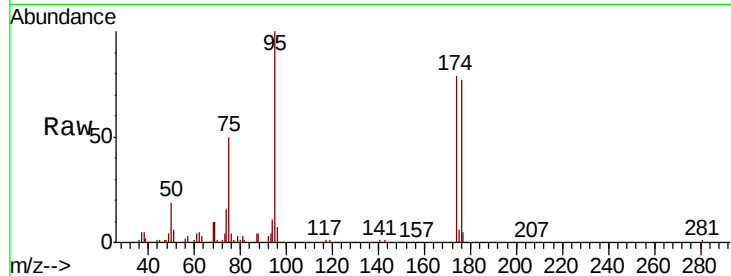
Tot Ion: 95 Resp: 156219

Ion Ratio Lower Upper

95 100

174 78.4 0.0 159.2

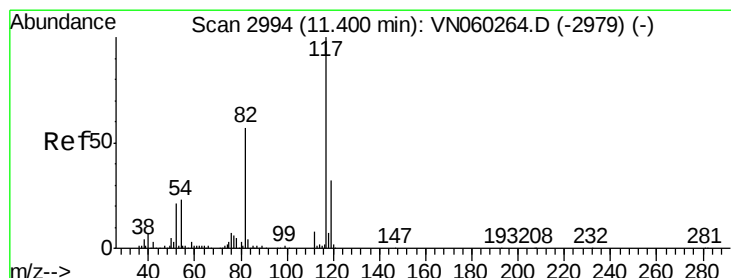
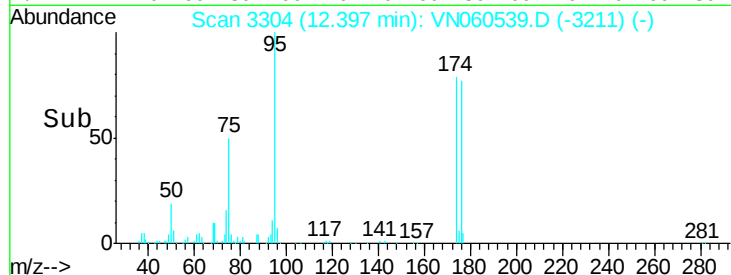
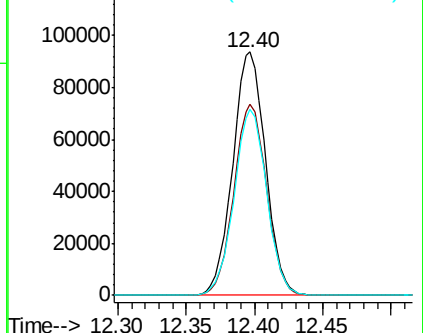
176 75.8 0.0 153.8



Abundance Ion 94.90 (94.60 to 95.60): VN060539.D (-3211) (-)

Ion 173.80 (173.50 to 174.50): VN060539.D (-3211) (-)

Ion 175.80 (175.50 to 176.50): VN060539.D (-3211) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060539.D

Acq: 16 Mar 2020 21:16

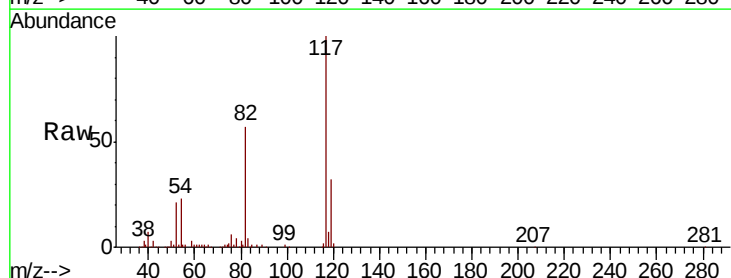
Tgt Ion: 117 Resp: 319917

Ion Ratio Lower Upper

117 100

82 57.4 45.8 68.6

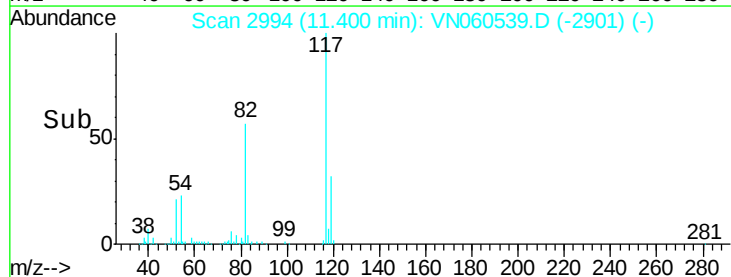
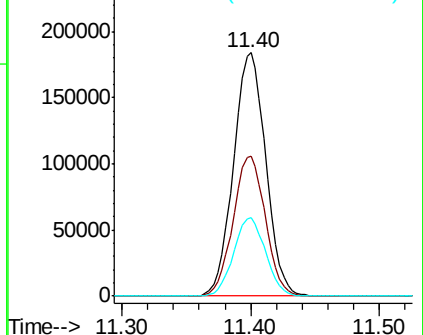
119 32.2 25.8 38.8

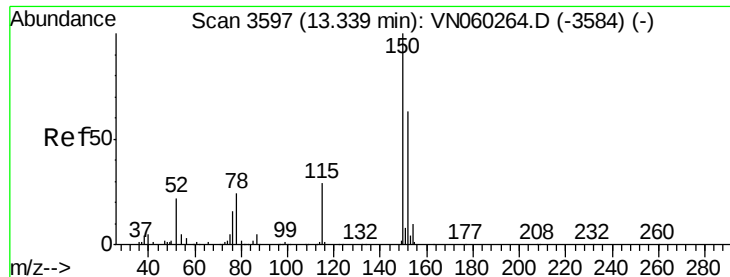


Abundance Ion 116.90 (116.60 to 117.60): VN060539.D (-2901) (-)

Ion 82.00 (81.70 to 82.70): VN060539.D (-2901) (-)

Ion 118.90 (118.60 to 119.60): VN060539.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: VN060539.D

Acq: 16 Mar 2020 21:16

Instrument :

MSVOA_N

ClientSampleId :

PB127541ZHE#12

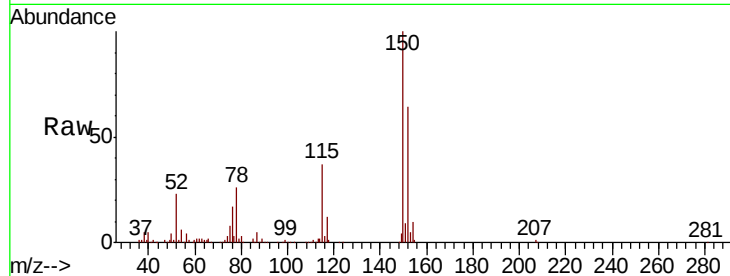
Tot Ion:152 Resp: 145699

Ion Ratio Lower Upper

152 100

115 59.0 30.0 90.0

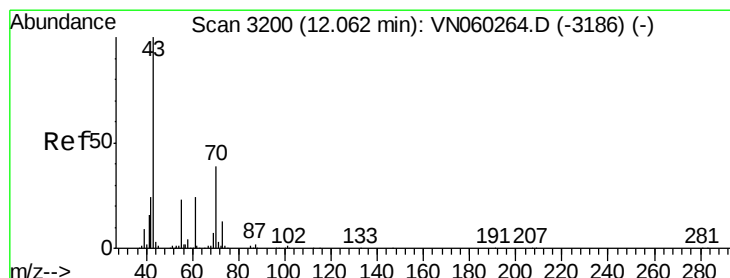
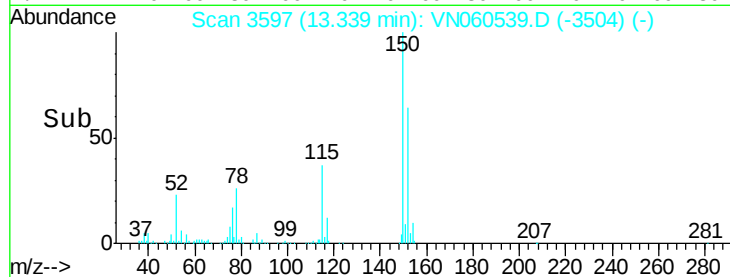
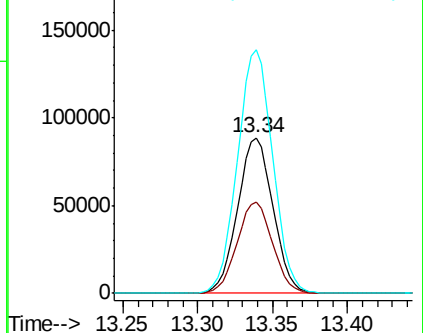
150 156.8 0.0 349.6



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: 0.713 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN060539.D

Acq: 16 Mar 2020 21:16

Tgt Ion: 43 Resp: 3366

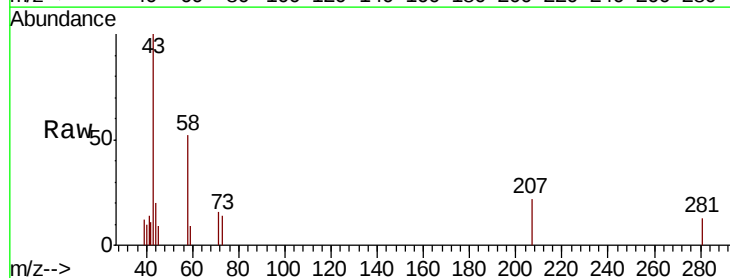
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.2#

55 0.0 18.2 27.4#

61 0.0 19.2 28.8#

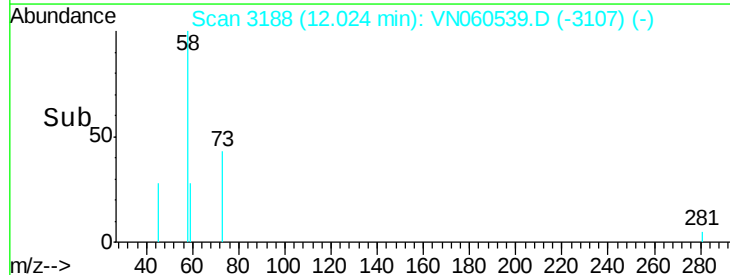
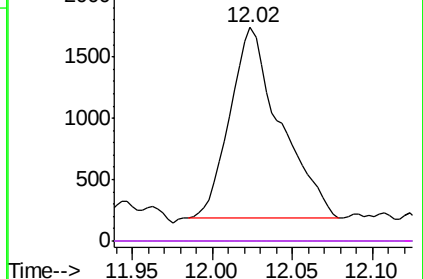


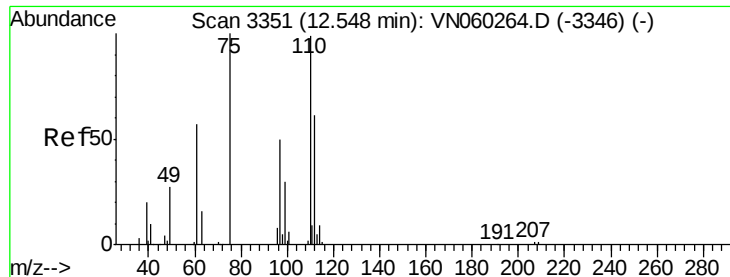
Abundance Ion 43.00 (42.70 to 43.70): V

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: 24.778 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060539.D

Acq: 16 Mar 2020 21:16

Instrument :

MSVOA_N

ClientSampleId :

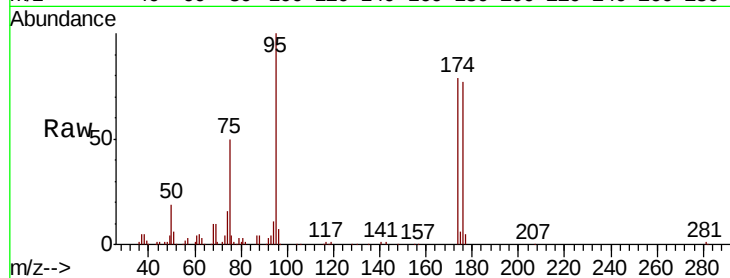
PB127541ZHE#12

Tot Ion: 75 Resp: 79206

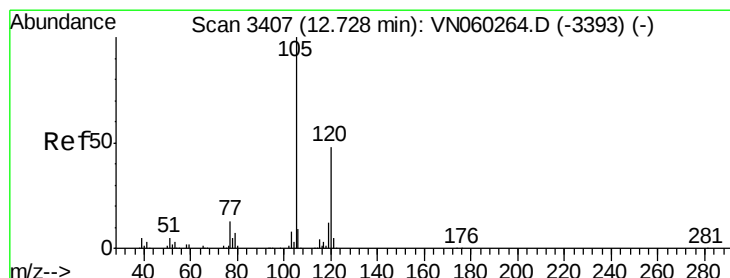
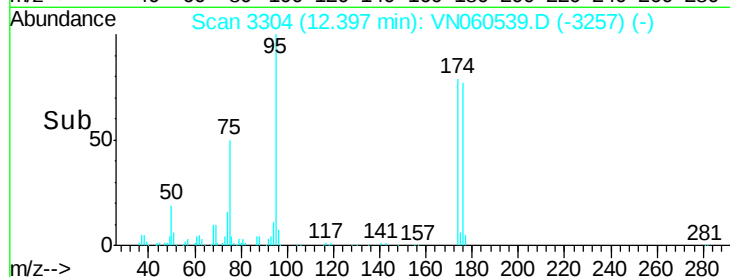
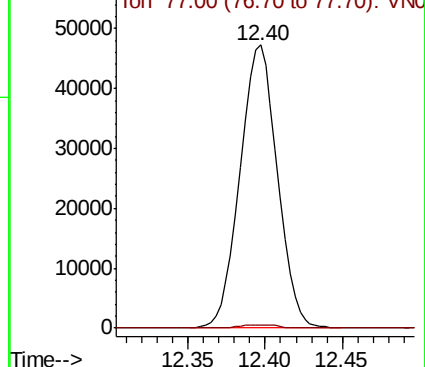
Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN060539.D (-3257) (-)



#80

1,3,5-Trimethylbenzene

Concen: 0.796 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. 0.00 min

Lab File: VN060539.D

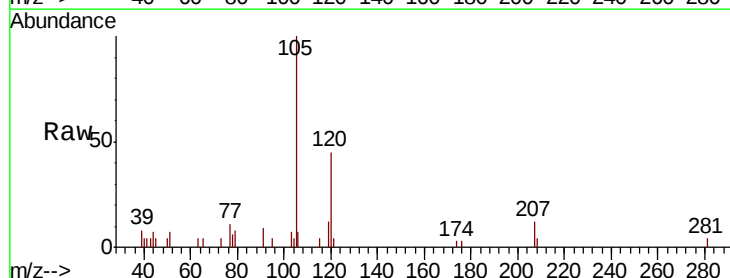
Acq: 16 Mar 2020 21:16

Tgt Ion: 105 Resp: 7241

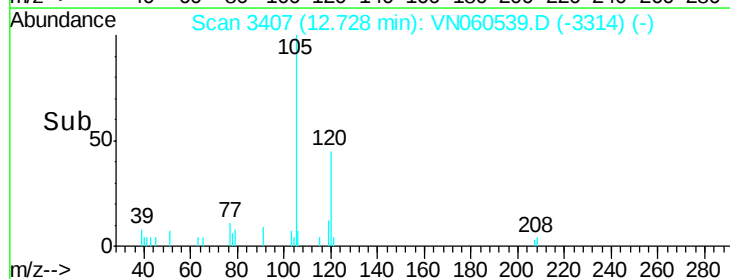
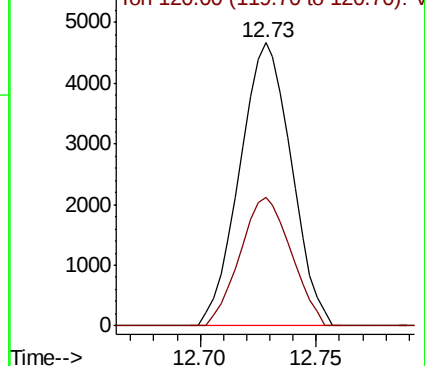
Ion Ratio Lower Upper

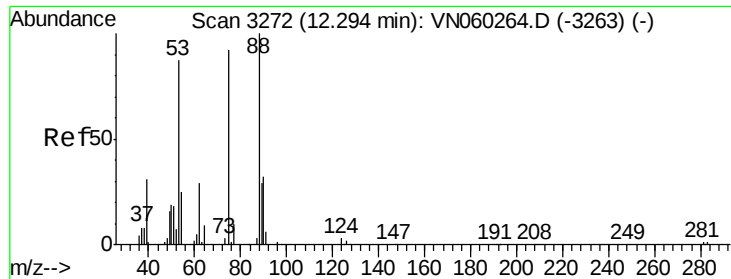
105 100

120 44.8 24.1 72.4



Abundance Ion 105.00 (104.70 to 105.70): VN060539.D (-3314) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 68.399 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060539.D

Acq: 16 Mar 2020 21:16

Instrument :

MSVOA_N

ClientSampleId :

PB127541ZHE#12

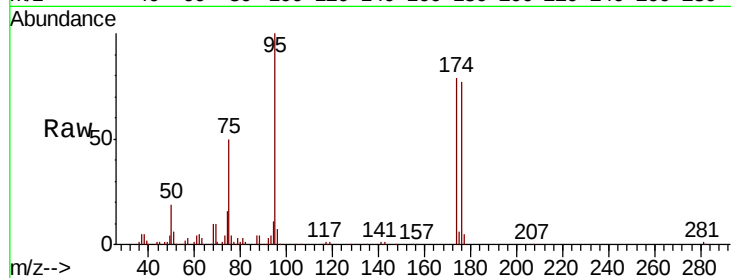
Tot Ion: 75 Resp: 79206

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): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

