

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031320\
 Data File : VN060503.D
 Acq On : 13 Mar 2020 15:27
 Operator : JC/MD
 Sample : PB127506ZHE#04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 16 04:29:29 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	202514	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	336753	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	324004	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	152054	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	133102	51.23	ug/l	0.00
Spiked Amount			Recovery	=	102.46%	
35) Dibromofluoromethane	7.57	113	100820	64.50	ug/l	0.00
Spiked Amount			Recovery	=	129.00%	
50) Toluene-d8	10.08	98	416222	52.61	ug/l	0.00
Spiked Amount			Recovery	=	105.22%	
62) 4-Bromofluorobenzene	12.40	95	160487	53.52	ug/l	0.00
Spiked Amount			Recovery	=	107.04%	

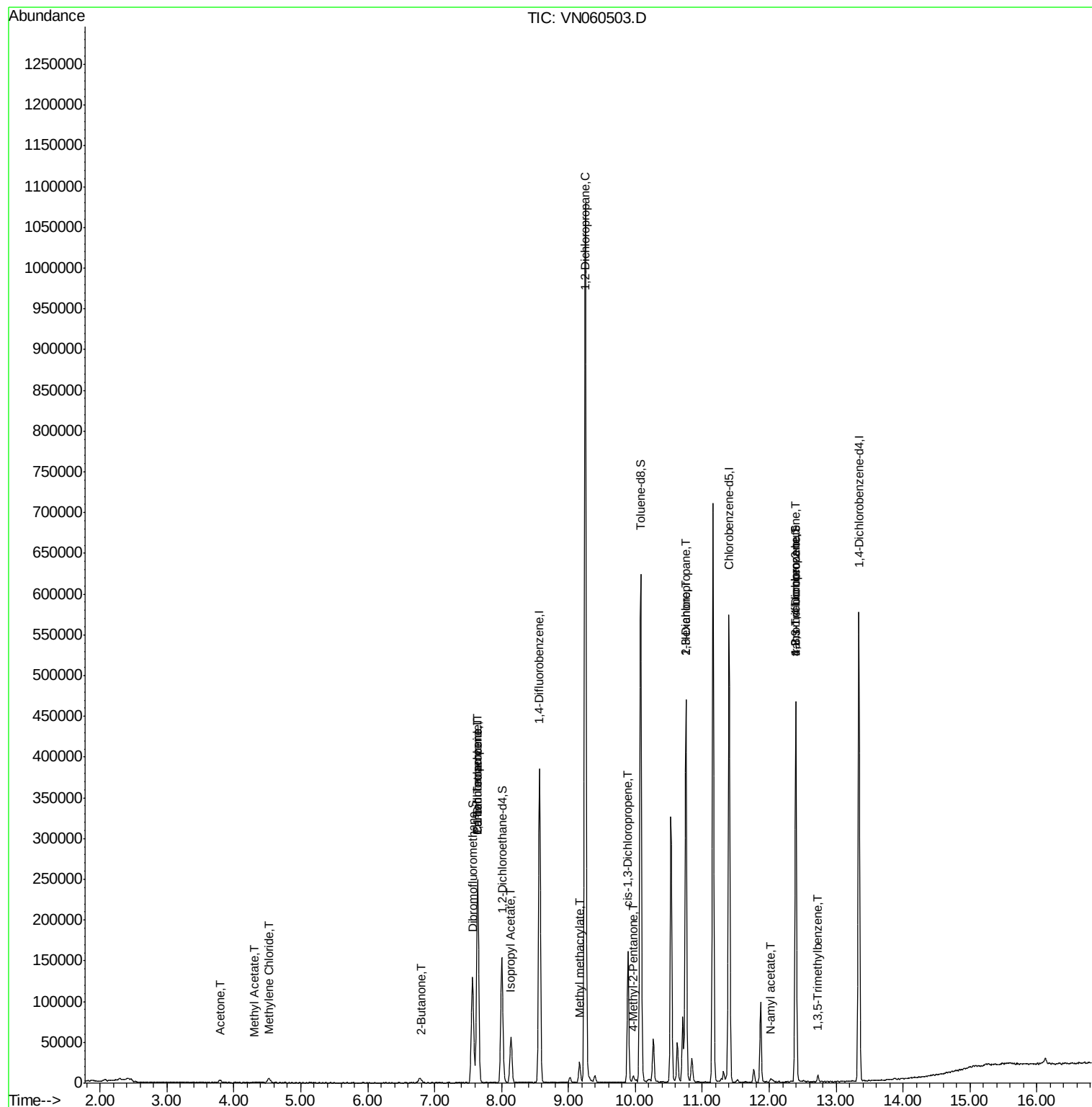
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.80	43	6384	7.608	ug/l	98
18) Methyl Acetate	4.30	43	2052	0.733	ug/l #	55
20) Methylene Chloride	4.52	84	3954	1.716	ug/l	91
25) 2-Butanone	6.81	43	1252	0.924	ug/l #	49
31) Cyclohexane	7.64	56	4394	Below Cal	#	1
36) 1,1-Dichloropropene	7.64	75	16392	5.107	ug/l #	50
38) Carbon Tetrachloride	7.64	117	19929	6.378	ug/l #	15
43) Isopropyl Acetate	8.14	43	67013	12.596	ug/l #	90
45) 1,2-Dichloropropane	9.25	63	1322	0.541	ug/l #	44
48) Methyl methacrylate	9.16	41	3435	1.416	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	6175	2.047	ug/l	88
54) cis-1,3-Dichloropropene	9.89	75	28551	6.977	ug/l #	59
57) 1,3-Dichloropropane	10.75	76	4730	1.229	ug/l #	42
59) 2-Hexanone	10.75	43	70057	31.632	ug/l #	52
74) N-amyl acetate	12.02	43	3014	0.612	ug/l #	44
76) 1,2,3-Trichloropropane	12.40	75	82412	24.703	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	4771	0.503	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.40	75	82412	68.193	ug/l #	8
95) Naphthalene	15.13	128	108	Below Cal	#	69

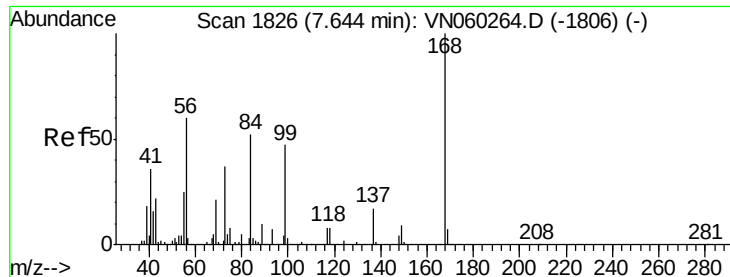
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Feb 27 13:52:50 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN060503.D

Acq: 13 Mar 2020 15:27

Instrument :

MSVOA_N

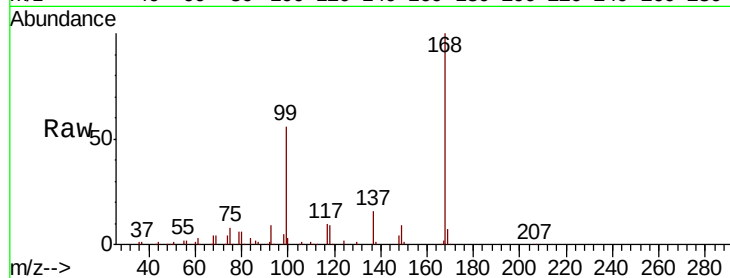
ClientSampleId :

Tot Ion:168 Resp: 202514

Ion Ratio Lower Upper

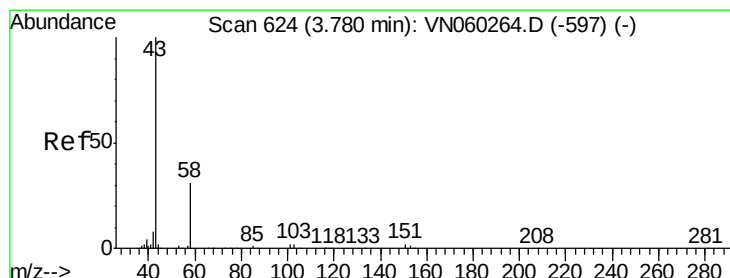
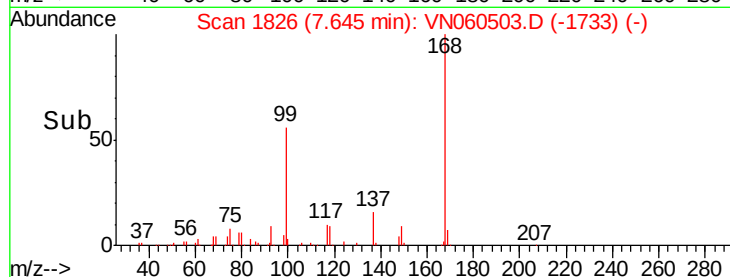
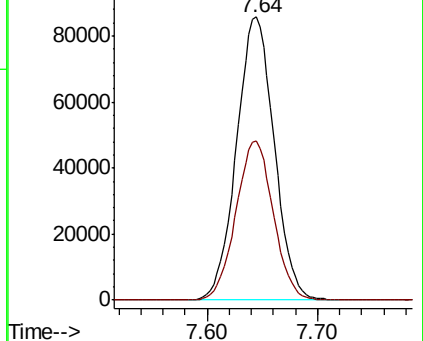
168 100

99 56.1 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: 7.608 ug/l

RT: 3.80 min Scan# 629

Delta R.T. 0.02 min

Lab File: VN060503.D

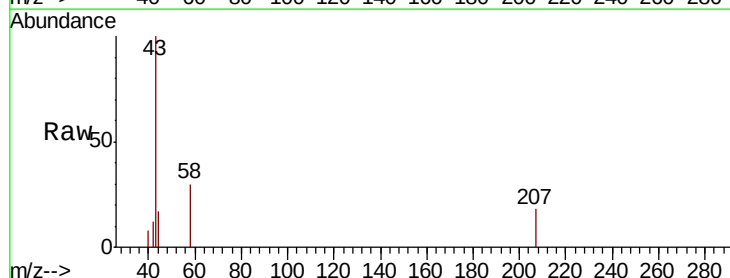
Acq: 13 Mar 2020 15:27

Tgt Ion: 43 Resp: 6384

Ion Ratio Lower Upper

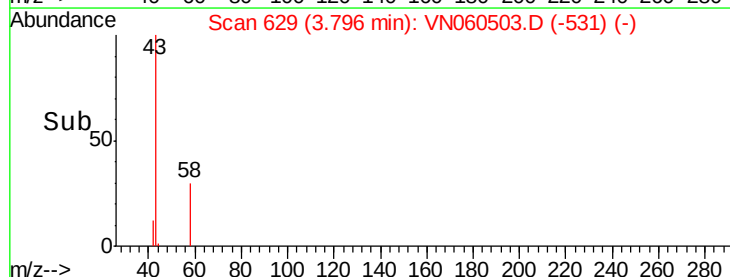
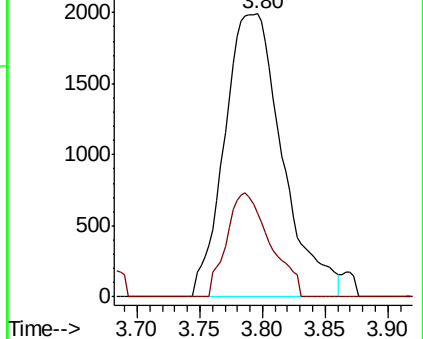
43 100

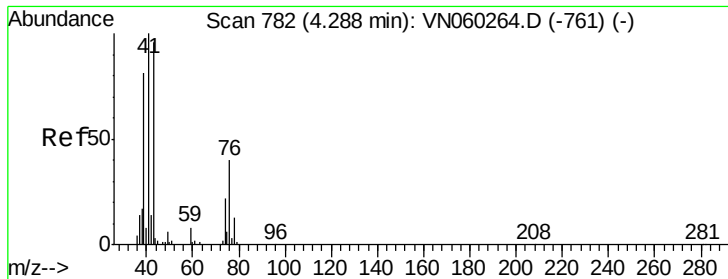
58 29.7 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

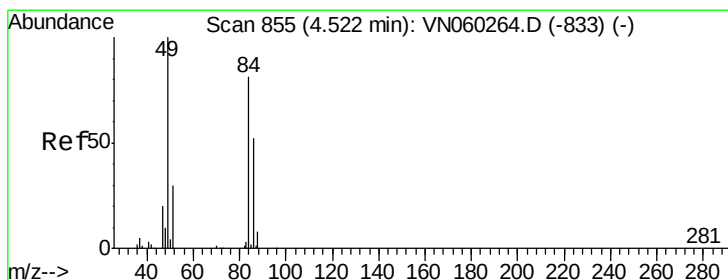
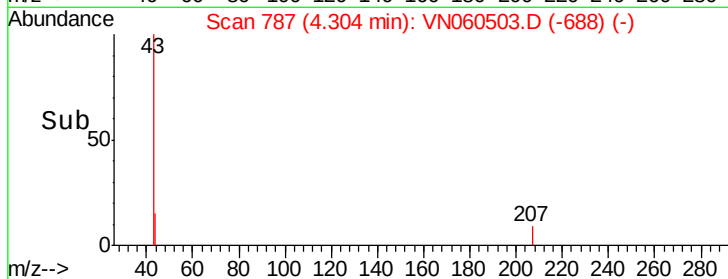
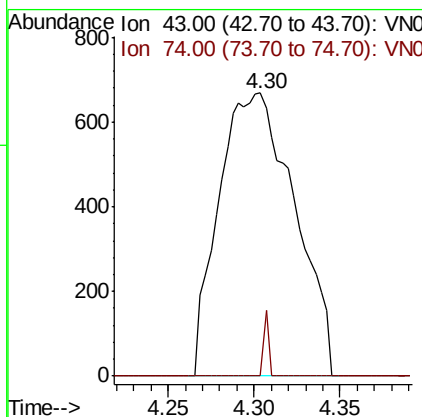
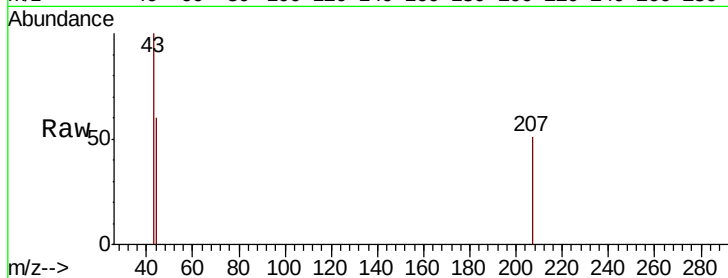




#18
Methyl Acetate
Concen: 0.733 ug/l
RT: 4.30 min Scan# 787
Delta R.T. 0.02 min
Lab File: VN060503.D
Acq: 13 Mar 2020 15:27

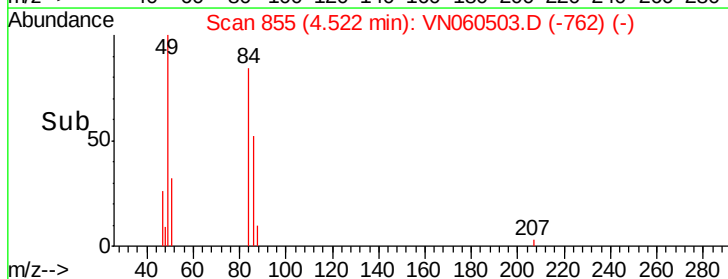
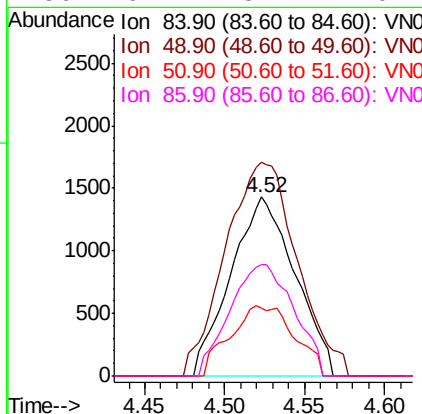
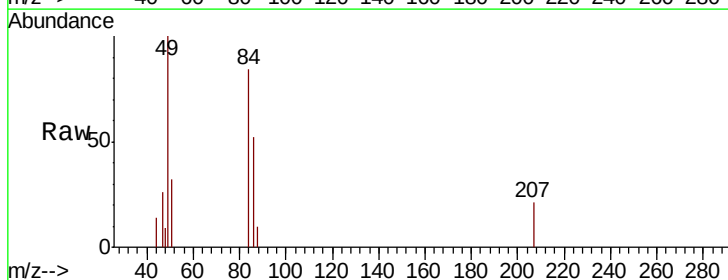
Instrument :
MSVOA_N
ClientSampleId :

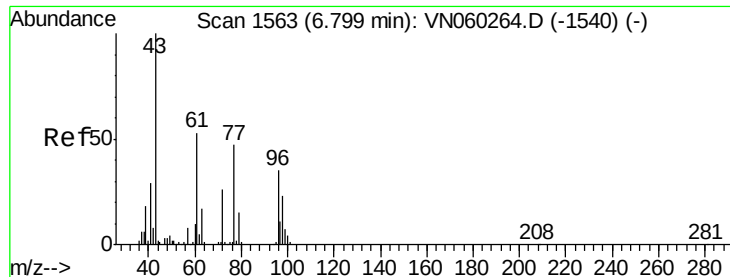
Tot Ion: 43 Resp: 2052
Ion Ratio Lower Upper
43 100
74 1.5 18.8 28.2#



#20
Methylene Chloride
Concen: 1.716 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN060503.D
Acq: 13 Mar 2020 15:27

Tgt Ion: 84 Resp: 3954
Ion Ratio Lower Upper
84 100
49 106.4 99.3 148.9
51 37.8 30.1 45.1
86 62.2 51.1 76.7

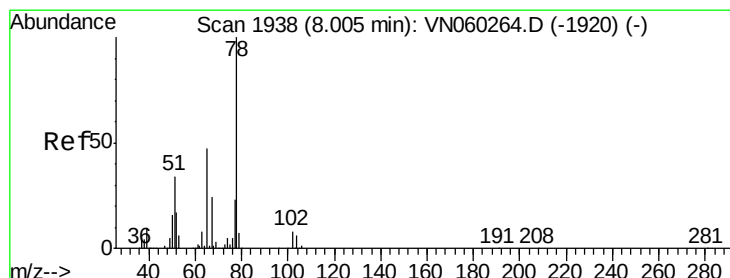
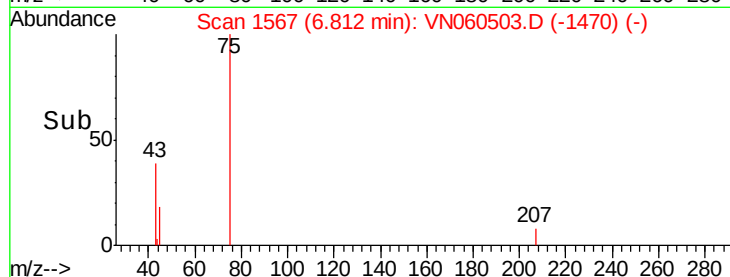
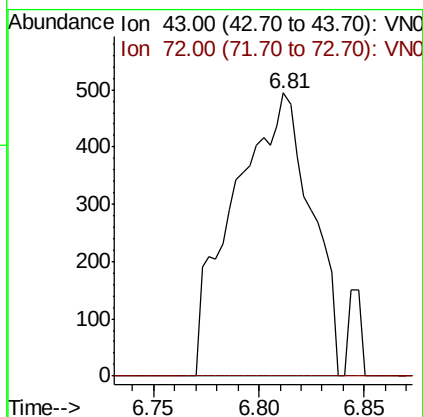
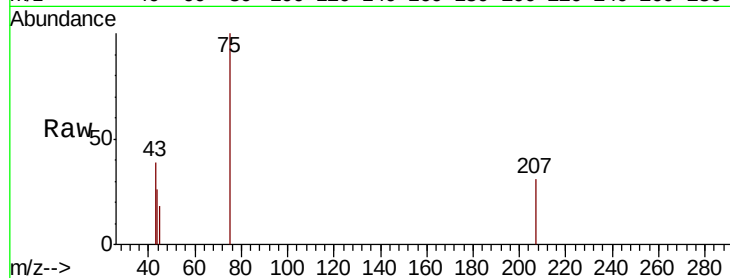




#25
2-Butanone
Concen: 0.924 ug/l
RT: 6.81 min Scan# 1567
Delta R.T. 0.01 min
Lab File: VN060503.D
Acq: 13 Mar 2020 15:27

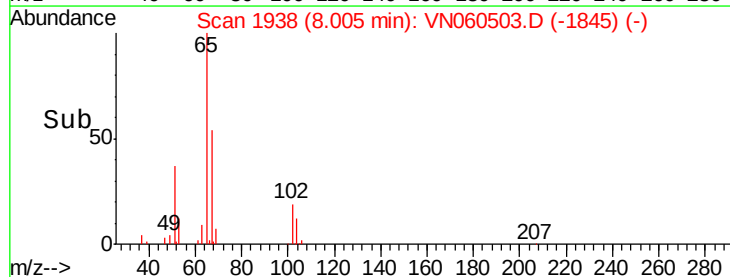
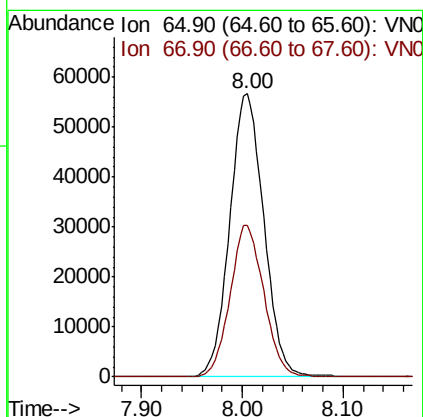
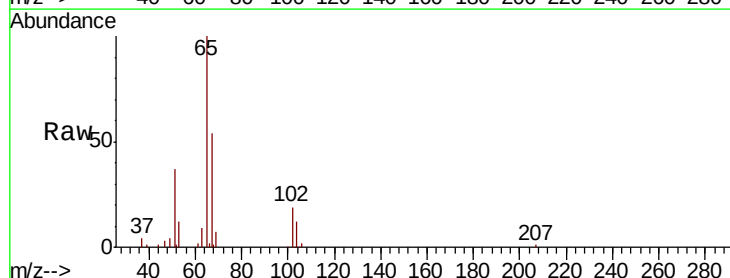
Instrument :
MSVOA_N
ClientSampled :

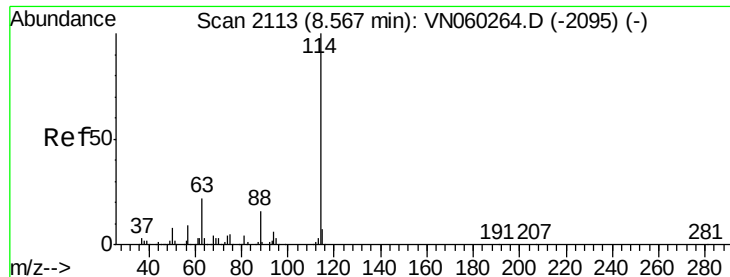
Tot Ion: 43 Resp: 1252
Ion Ratio Lower Upper
43 100
72 0.0 20.9 31.3#



#33
1,2-Dichloroethane-d4
Concen: 51.227 ug/l
RT: 8.00 min Scan# 1938
Delta R.T. 0.00 min
Lab File: VN060503.D
Acq: 13 Mar 2020 15:27

Tgt Ion: 65 Resp: 133102
Ion Ratio Lower Upper
65 100
67 52.9 0.0 103.8

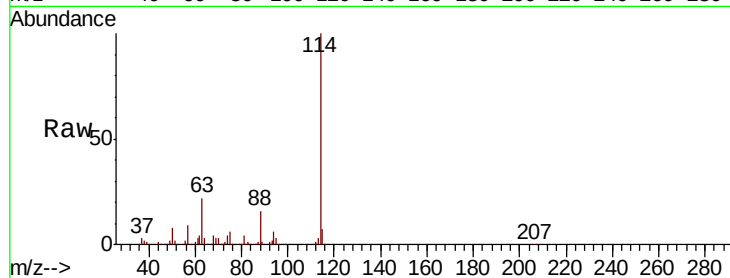




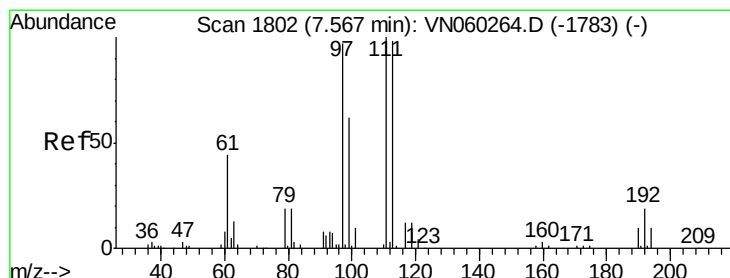
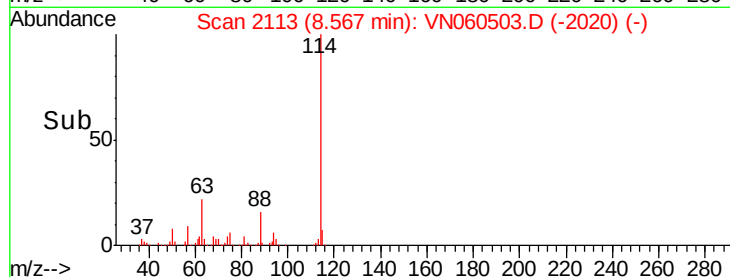
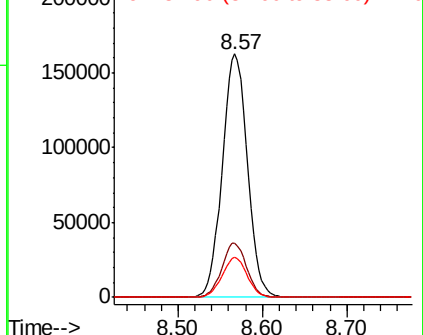
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.57 min Scan# 2113
Delta R.T. 0.00 min
Lab File: VN060503.D
Acq: 13 Mar 2020 15:27

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:114 Resp: 336753
Ion Ratio Lower Upper
114 100
63 22.2 0.0 43.2
88 16.3 0.0 31.6

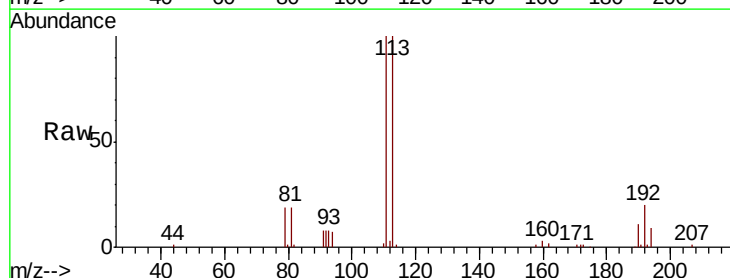


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

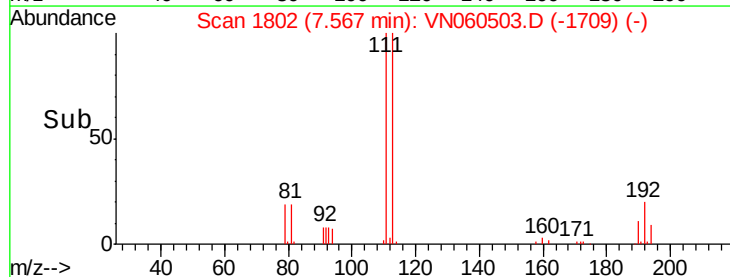
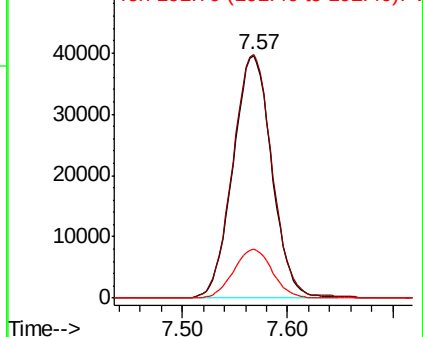


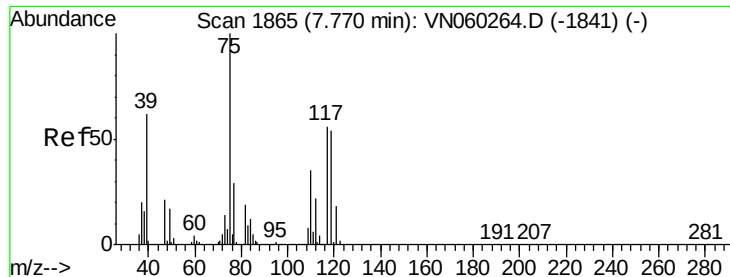
#35
Dibromofluoromethane
Concen: 64.500 ug/l
RT: 7.57 min Scan# 1802
Delta R.T. 0.00 min
Lab File: VN060503.D
Acq: 13 Mar 2020 15:27

Tgt Ion:113 Resp: 100820
Ion Ratio Lower Upper
113 100
111 101.5 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: 5.107 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.13 min

Lab File: VN060503.D

Acq: 13 Mar 2020 15:27

Instrument :

MSVOA_N

ClientSampleId :

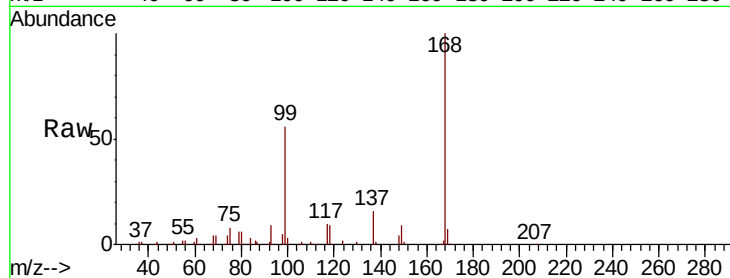
Tot Ion: 75 Resp: 16392

Ion Ratio Lower Upper

75 100

110 8.3 17.3 52.0#

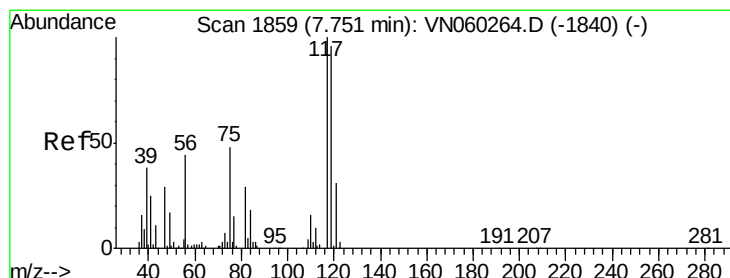
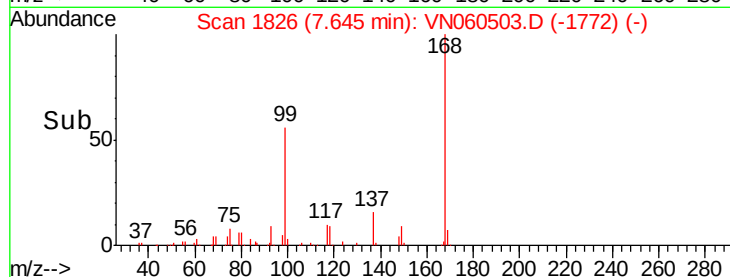
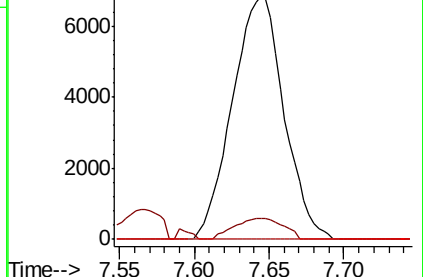
77 0.0 24.2 36.2#



Abundance Ion 74.90 (74.60 to 75.60): VN060264.D (-1841) (-)

Ion 109.90 (109.60 to 110.60): VN060264.D (-1841) (-)

Ion 76.90 (76.60 to 77.60): VN060264.D (-1841) (-)



#38

Carbon Tetrachloride

Concen: 6.378 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN060503.D

Acq: 13 Mar 2020 15:27

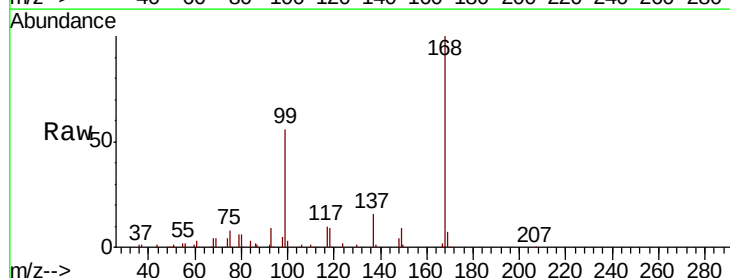
Tgt Ion: 117 Resp: 19929

Ion Ratio Lower Upper

117 100

119 3.7 76.7 115.1#

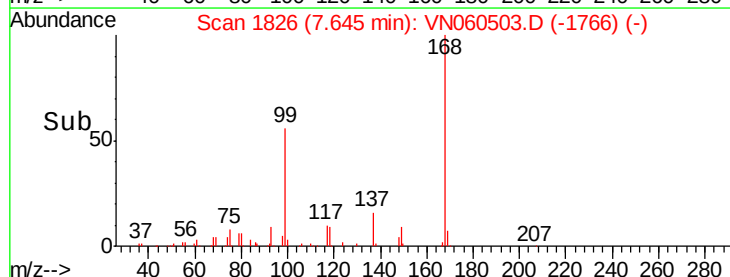
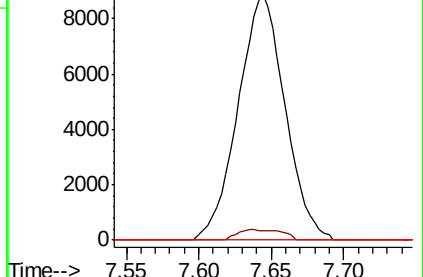
121 0.0 24.5 36.7#

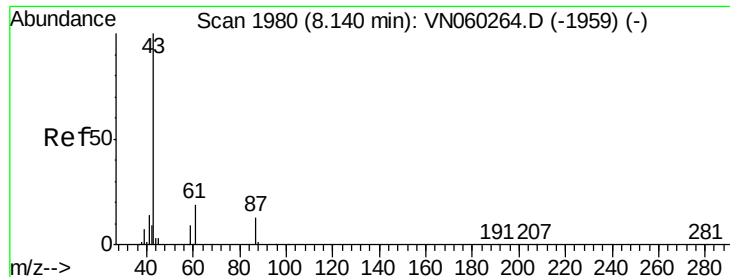


Abundance Ion 116.80 (116.50 to 117.50): VN060264.D (-1840) (-)

Ion 118.80 (118.50 to 119.50): VN060264.D (-1840) (-)

Ion 120.80 (120.50 to 121.50): VN060264.D (-1840) (-)





#43

Isopropyl Acetate

Concen: 12.596 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060503.D

Acq: 13 Mar 2020 15:27

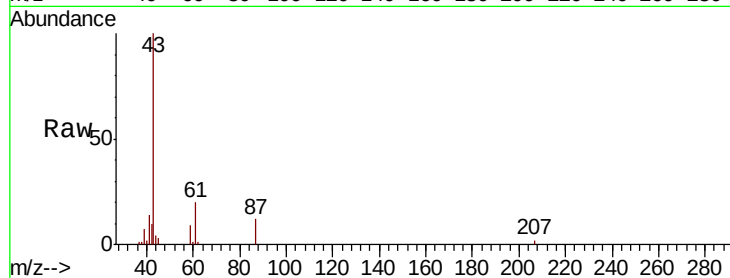
Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 67013

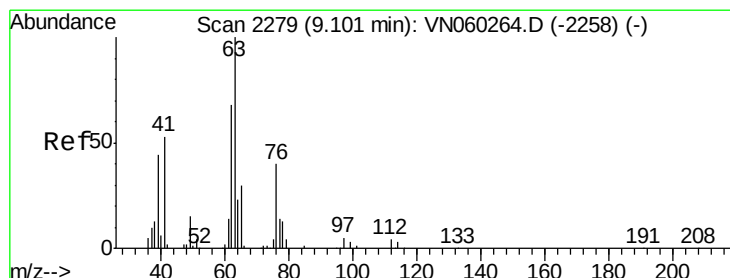
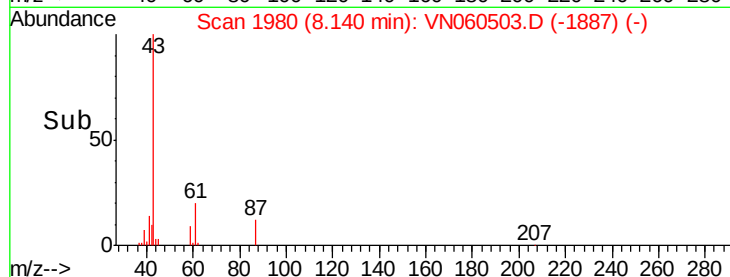
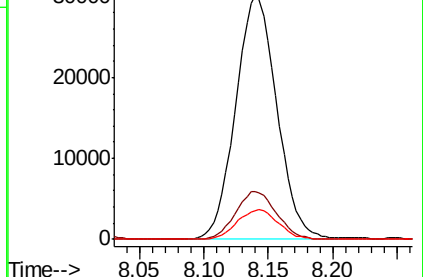
Ion	Ratio	Lower	Upper
43	100		
61	19.3	20.9	31.3#
87	12.1	10.6	16.0



Abundance Ion 43.00 (42.70 to 43.70): VN060264.D (-1959) (-)

Ion 61.00 (60.70 to 61.70): VN060264.D (-1959) (-)

Ion 87.00 (86.70 to 87.70): VN060264.D (-1959) (-)



#45

1,2-Dichloropropane

Concen: 0.541 ug/l

RT: 9.25 min Scan# 2326

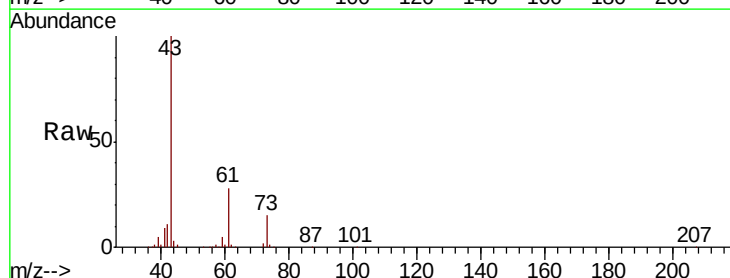
Delta R.T. 0.15 min

Lab File: VN060503.D

Acq: 13 Mar 2020 15:27

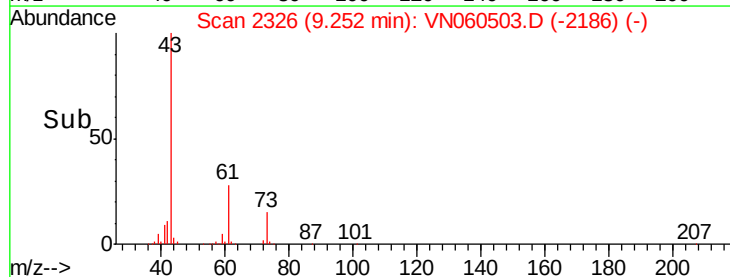
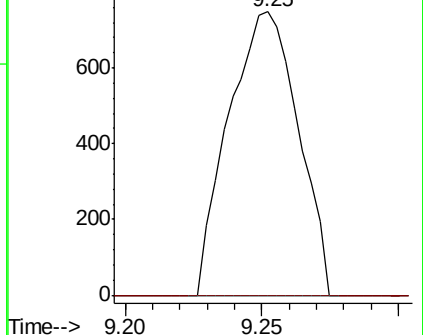
Tgt Ion: 63 Resp: 1322

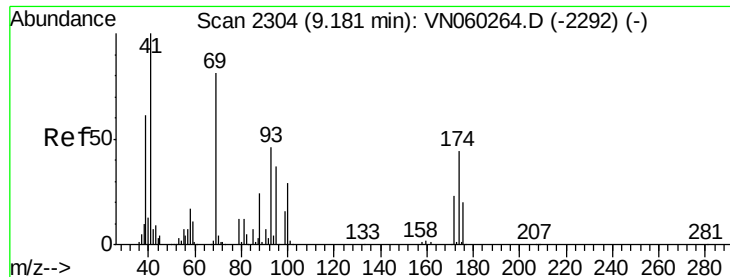
Ion	Ratio	Lower	Upper
63	100		
65	0.0	24.4	36.6#



Abundance Ion 62.90 (62.60 to 63.60): VN060264.D (-2258) (-)

Ion 64.90 (64.60 to 65.60): VN060264.D (-2258) (-)

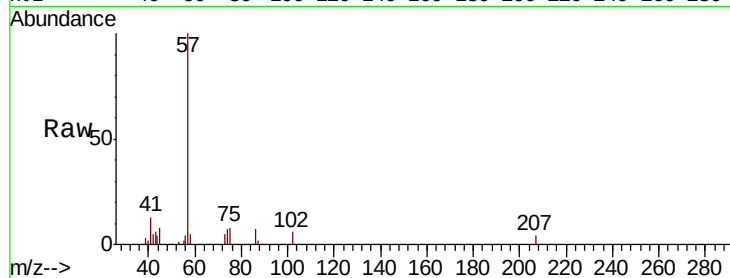




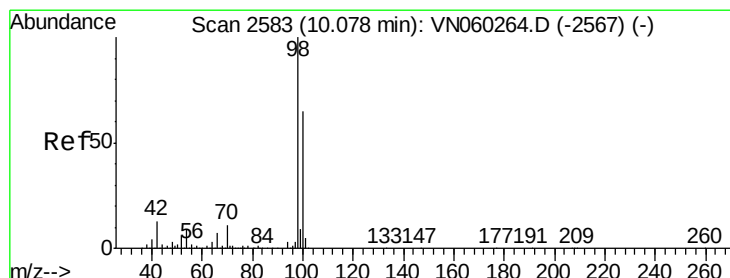
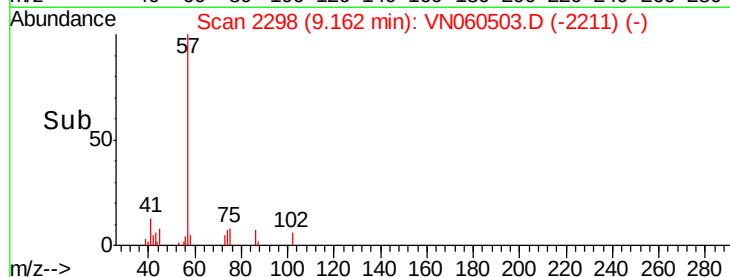
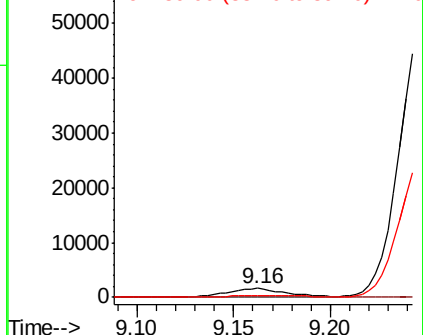
#48
Methvl methacrylate
Concen: 1.416 ug/l
RT: 9.16 min Scan# 2298
Delta R.T. -0.02 min
Lab File: VN060503.D
Acq: 13 Mar 2020 15:27

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 41 Resp: 3435
Ion Ratio Lower Upper
41 100
69 0.0 66.7 100.1#
39 0.0 50.1 75.1#

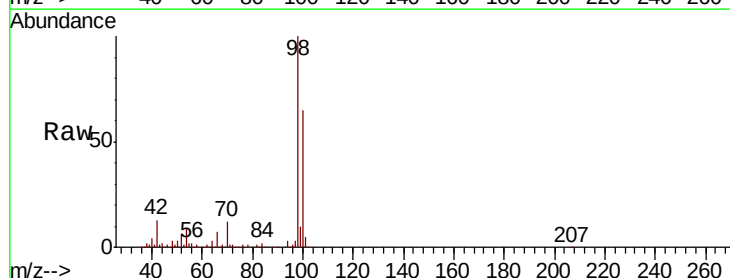


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

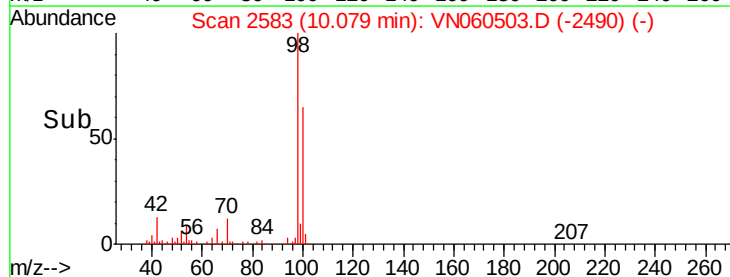
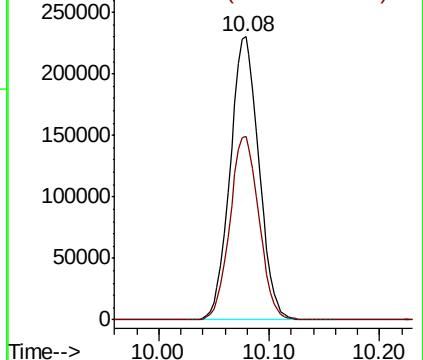


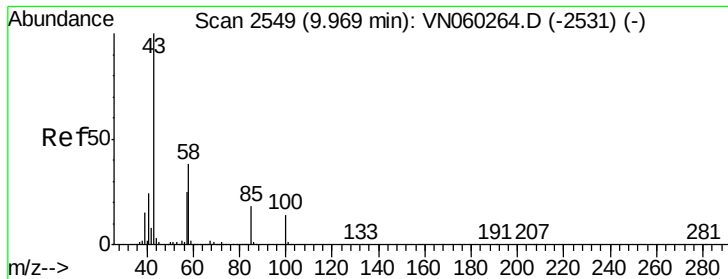
#50
Toluene-d8
Concen: 52.613 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN060503.D
Acq: 13 Mar 2020 15:27

Tgt Ion: 98 Resp: 416222
Ion Ratio Lower Upper
98 100
100 65.4 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 2.047 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN060503.D

Acq: 13 Mar 2020 15:27

Instrument :

MSVOA_N

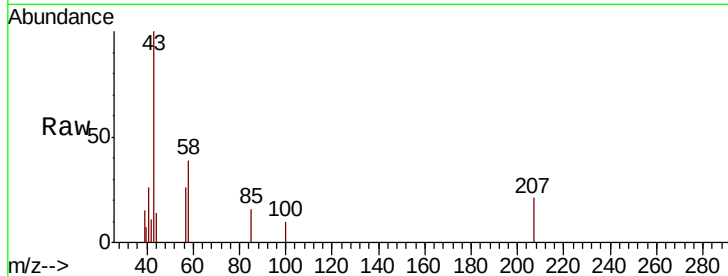
ClientSampled :

Tot Ion: 43 Resp: 6175

Ion Ratio Lower Upper

43 100

58 31.2 30.9 46.3



Abundance Ion 43.00 (42.70 to 43.70): VN060264.D (-2531) (-)

Ion 58.00 (57.70 to 58.70): VN060264.D (-2531) (-)

25000

20000

15000

10000

5000

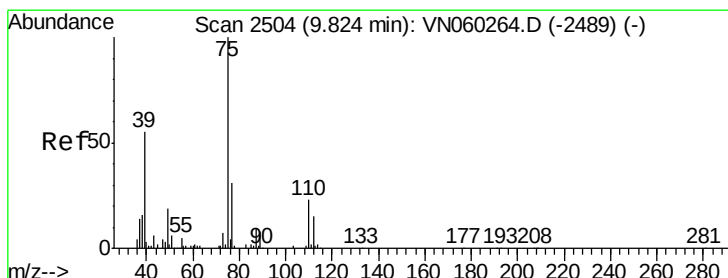
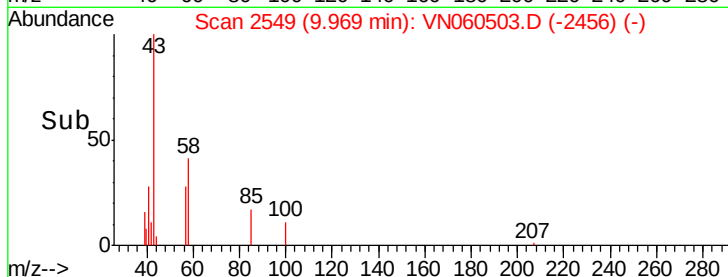
0

9.95

9.97

10.00

Time-->



#54

cis-1,3-Dichloropropene

Concen: 6.977 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060503.D

Acq: 13 Mar 2020 15:27

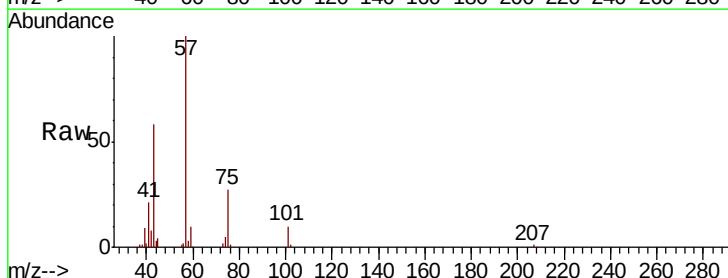
Tgt Ion: 75 Resp: 28551

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

39 31.9 43.8 65.8#



Abundance Ion 74.90 (74.60 to 75.60): VN060264.D (-2489) (-)

Ion 76.90 (76.60 to 77.60): VN060264.D (-2489) (-)

Ion 39.00 (38.70 to 39.70): VN060264.D (-2489) (-)

20000

15000

10000

5000

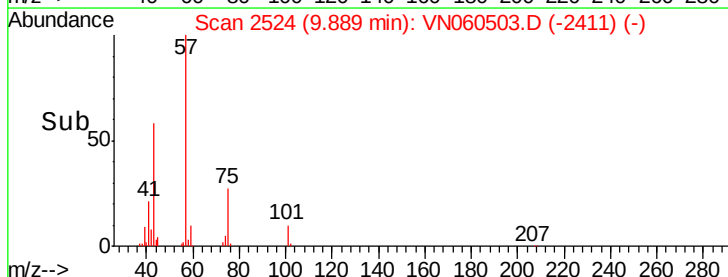
0

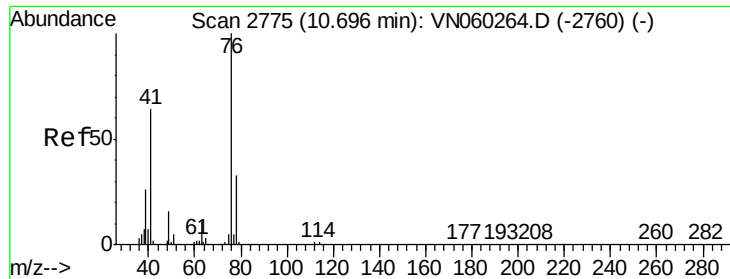
9.85

9.89

9.95

Time-->





#57

1,3-Dichloropropane

Concen: 1.229 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060503.D

Acq: 13 Mar 2020 15:27

Instrument :

MSVOA_N

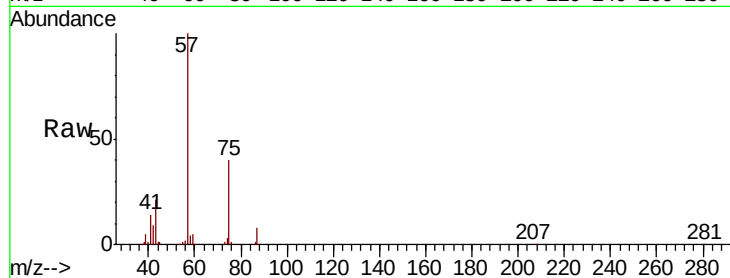
ClientSampleId :

Tot Ion: 76 Resp: 4730

Ion Ratio Lower Upper

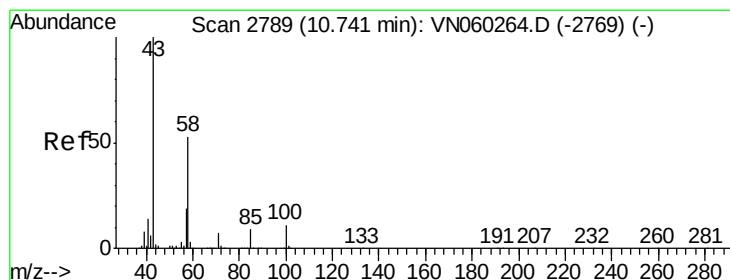
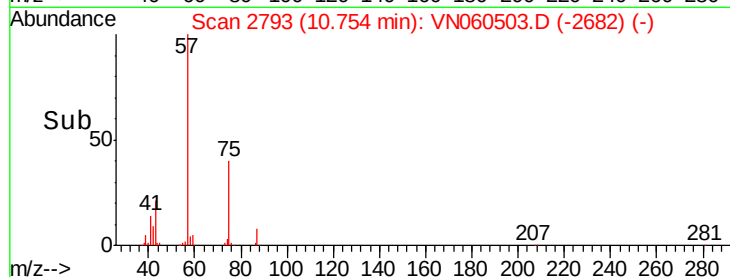
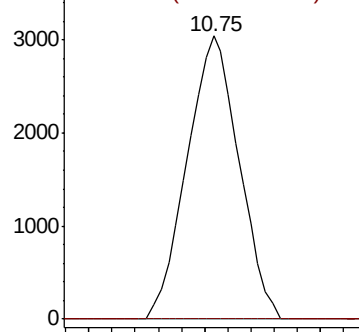
76 100

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: 31.632 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN060503.D

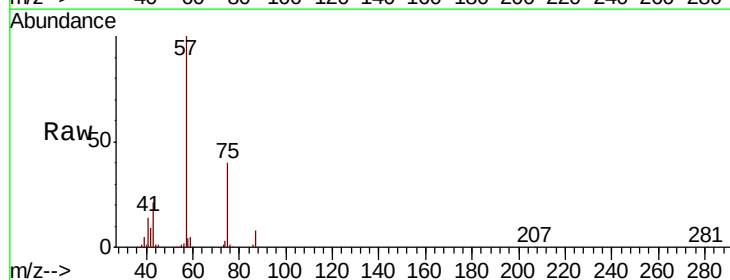
Acq: 13 Mar 2020 15:27

Tgt Ion: 43 Resp: 70057

Ion Ratio Lower Upper

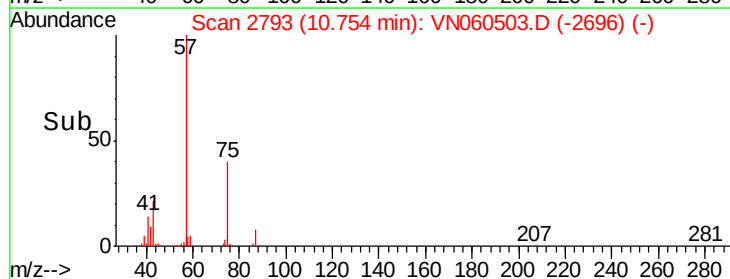
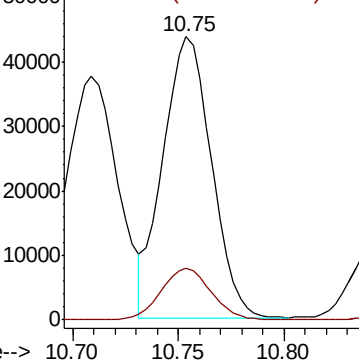
43 100

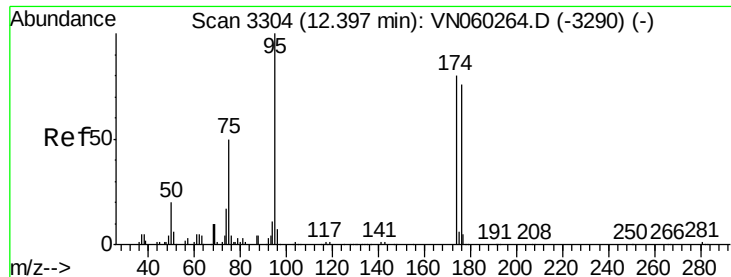
58 18.7 26.5 79.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 53.516 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060503.D

Acq: 13 Mar 2020 15:27

Instrument :

MSVOA_N

ClientSampleId :

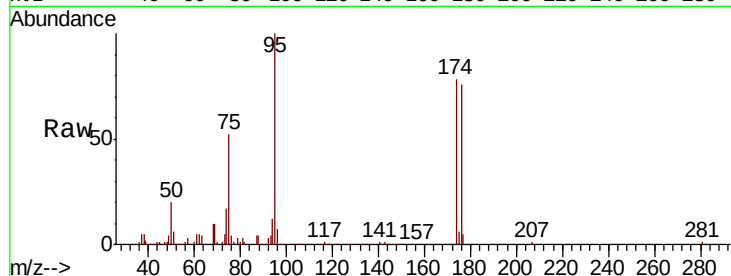
Tot Ion: 95 Resp: 160487

Ion Ratio Lower Upper

95 100

174 78.2 0.0 159.2

176 75.7 0.0 153.8

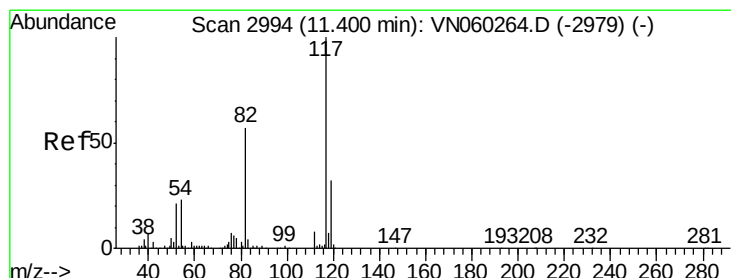
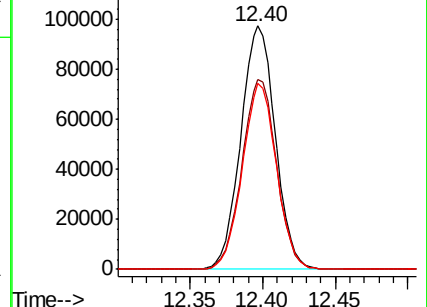
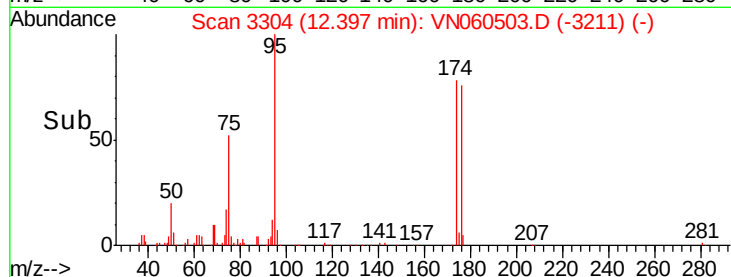


Abundance Ion 94.90 (94.60 to 95.60): VN060264.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN060264.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN060264.D (-3290) (-)

12.40



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060503.D

Acq: 13 Mar 2020 15:27

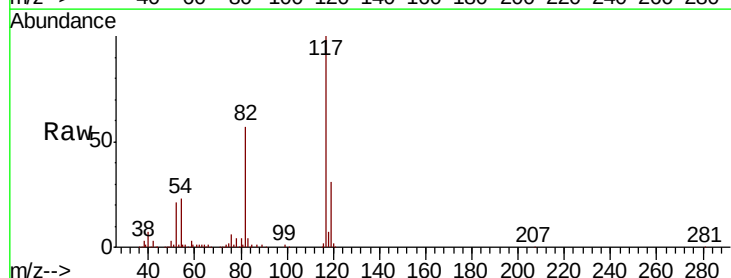
Tgt Ion: 117 Resp: 324004

Ion Ratio Lower Upper

117 100

82 56.8 45.8 68.6

119 30.9 25.8 38.8

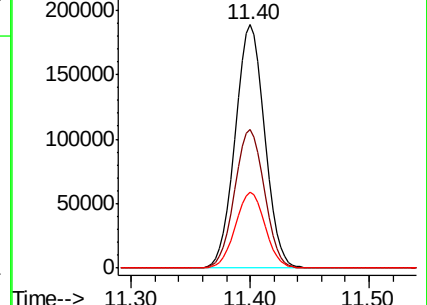
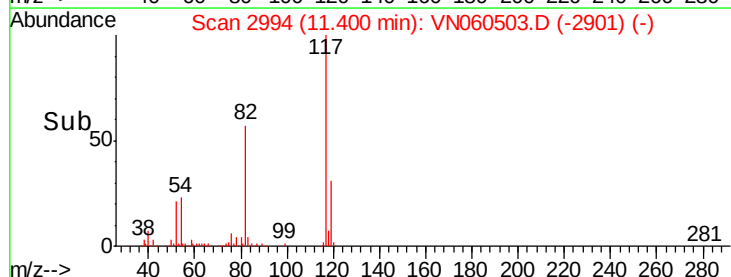


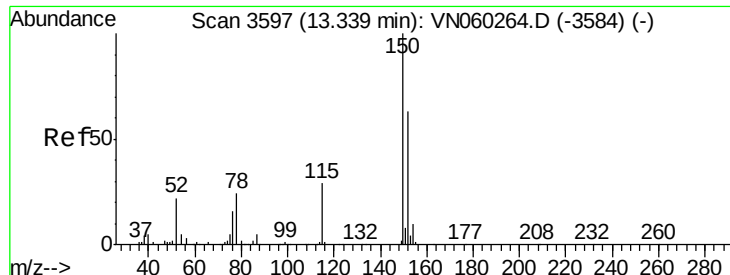
Abundance Ion 116.90 (116.60 to 117.60): VN060264.D (-2979) (-)

Ion 82.00 (81.70 to 82.70): VN060264.D (-2979) (-)

Ion 118.90 (118.60 to 119.60): VN060264.D (-2979) (-)

11.40





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN060503.D

Acq: 13 Mar 2020 15:27

Instrument :

MSVOA_N

ClientSampleId :

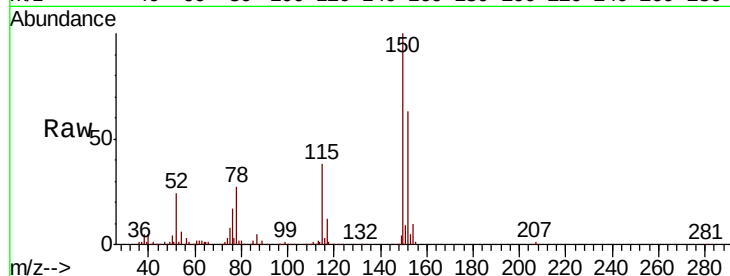
Tot Ion:152 Resp: 152054

Ion Ratio Lower Upper

152 100

115 59.8 30.0 90.0

150 157.6 0.0 349.6

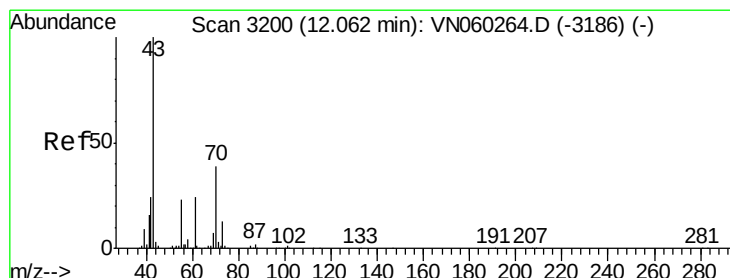
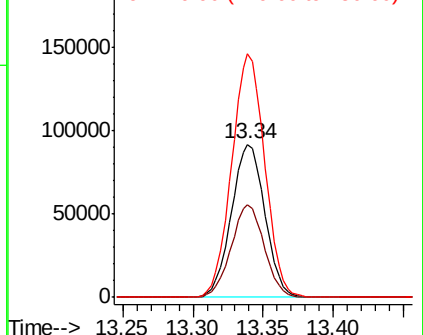
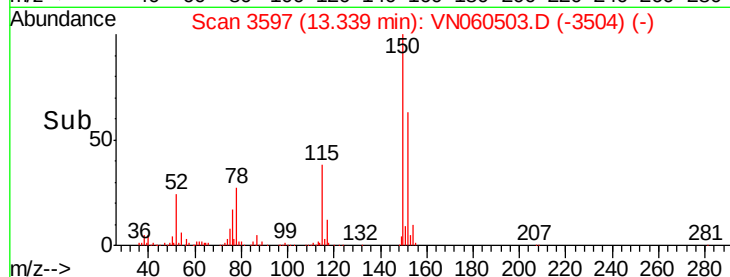


Abundance

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: 0.612 ug/l

RT: 12.02 min Scan# 3187

Delta R.T. -0.04 min

Lab File: VN060503.D

Acq: 13 Mar 2020 15:27

Tgt Ion: 43 Resp: 3014

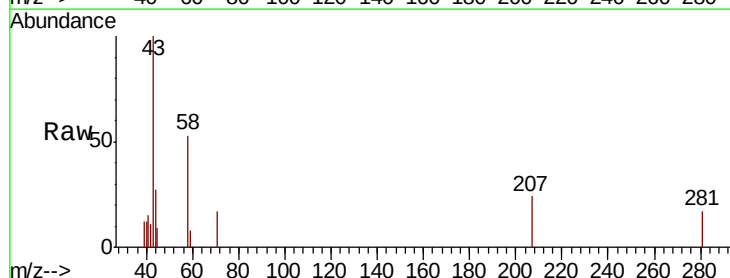
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.2#

55 0.0 18.2 27.4#

61 0.0 19.2 28.8#



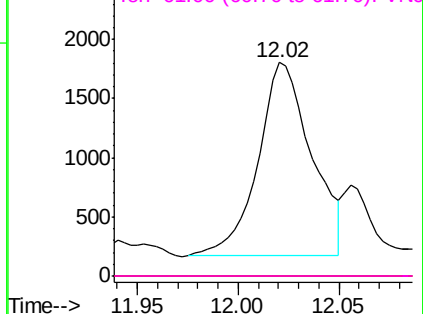
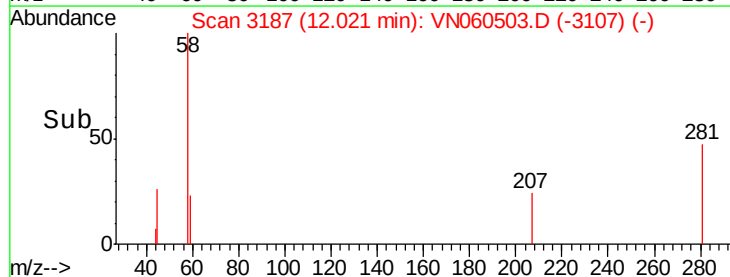
Abundance

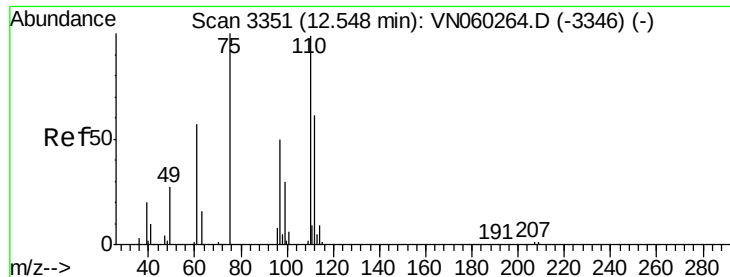
Ion 43.00 (42.70 to 43.70): V

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: 24.703 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060503.D

Acq: 13 Mar 2020 15:27

Instrument :

MSVOA_N

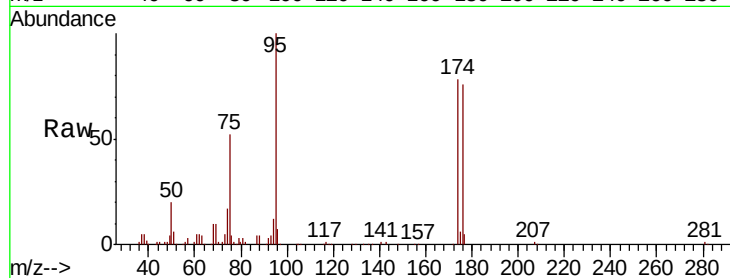
ClientSampled :

Tot Ion: 75 Resp: 82412

Ion Ratio Lower Upper

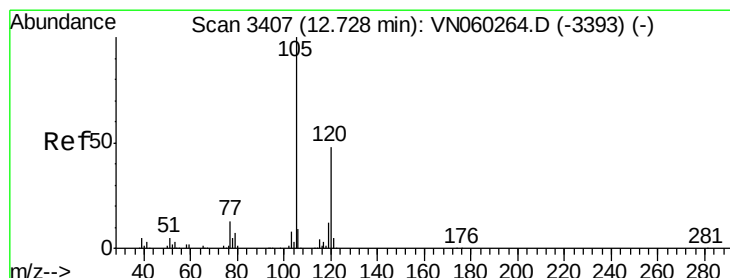
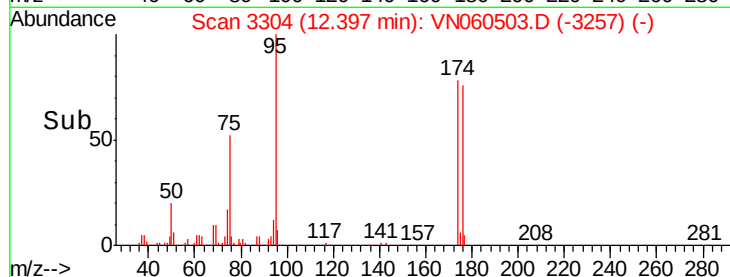
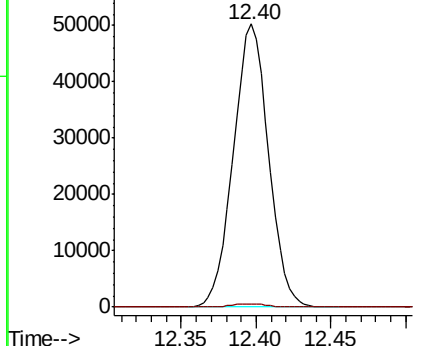
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN060264.D (-3346) (-)

Ion 77.00 (76.70 to 77.70): VN060264.D (-3346) (-)



#80

1,3,5-Trimethylbenzene

Concen: 0.503 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. 0.00 min

Lab File: VN060503.D

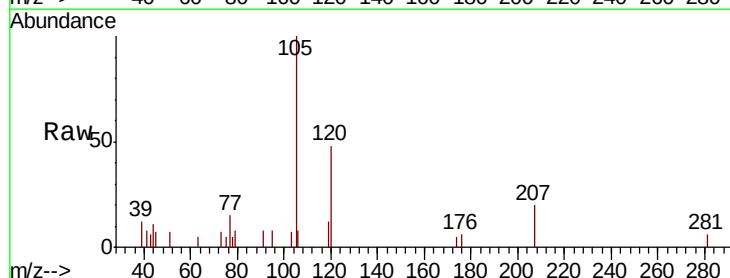
Acq: 13 Mar 2020 15:27

Tgt Ion: 105 Resp: 4771

Ion Ratio Lower Upper

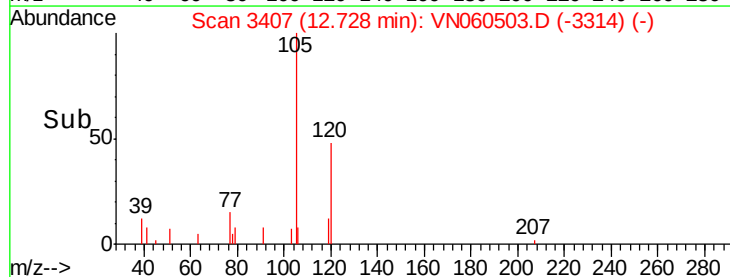
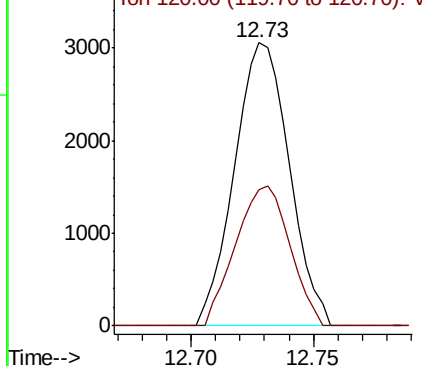
105 100

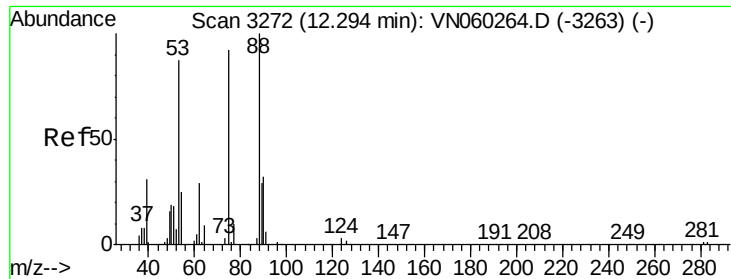
120 48.8 24.1 72.4



Abundance Ion 105.00 (104.70 to 105.70): VN060264.D (-3393) (-)

Ion 120.00 (119.70 to 120.70): VN060264.D (-3393) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 68.193 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060503.D

Acq: 13 Mar 2020 15:27

Instrument :

MSVOA_N

ClientSampleId :

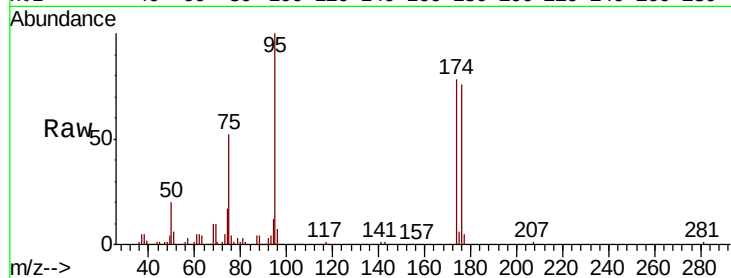
Tot Ion: 75 Resp: 82412

Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

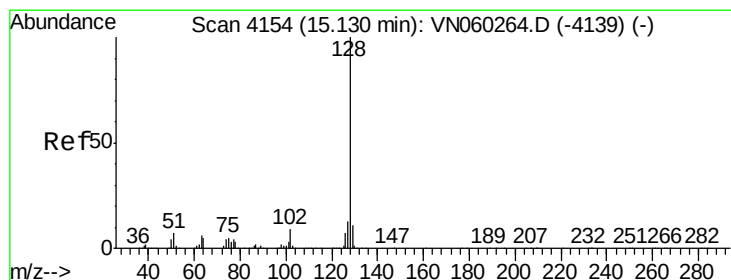
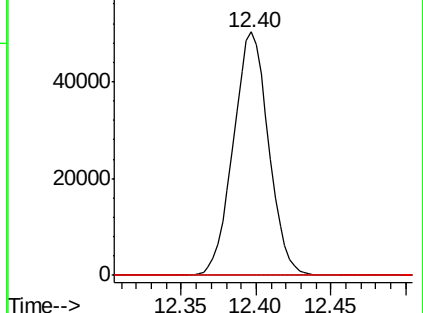
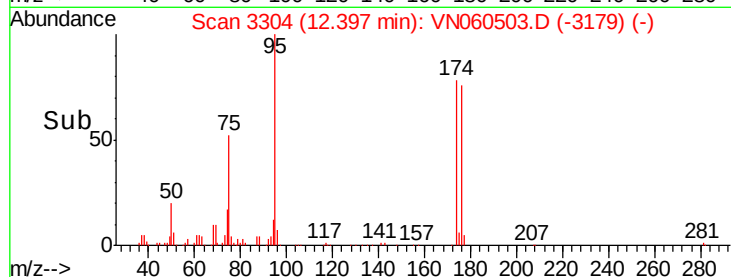
89 0.0 57.1 85.7#



Abundance Ion 74.90 (74.60 to 75.60): VN060503.D (-3179) (-)

Ion 53.00 (52.70 to 53.70): VN060503.D (-3179) (-)

Ion 88.90 (88.60 to 89.60): VN060503.D (-3179) (-)



#95

Naphthalene

Concen: Below Cal

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN060503.D

Acq: 13 Mar 2020 15:27

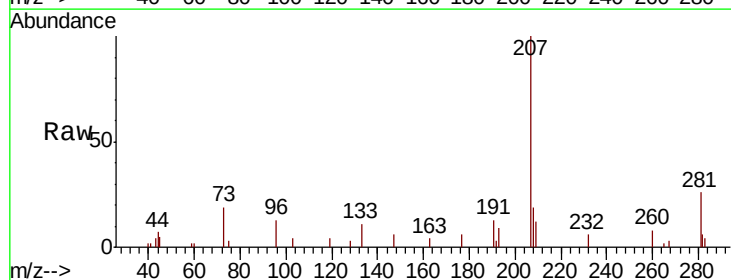
Tgt Ion: 128 Resp: 108

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): VN060503.D (-4060) (-)

Ion 127.00 (126.70 to 127.70): VN060503.D (-4060) (-)

Ion 129.00 (128.70 to 129.70): VN060503.D (-4060) (-)

