

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082919\
 Data File : VN057573.D
 Acq On : 30 Aug 2019 1:32
 Operator : JC/SP
 Sample : K4528-29
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 30 12:11:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N082919W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 30 08:56:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	546729	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	840376	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	732498	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	197724	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.02	65	321583	37.40	ug/l	0.00
Spiked Amount			Recovery	=	74.80%	
35) Dibromofluoromethane	7.58	113	256491	35.16	ug/l	0.00
Spiked Amount			Recovery	=	70.32%	
50) Toluene-d8	10.09	98	1036970	38.89	ug/l	0.00
Spiked Amount			Recovery	=	77.78%	
62) 4-Bromofluorobenzene	12.40	95	282851	31.35	ug/l	0.00
Spiked Amount			Recovery	=	62.70%	

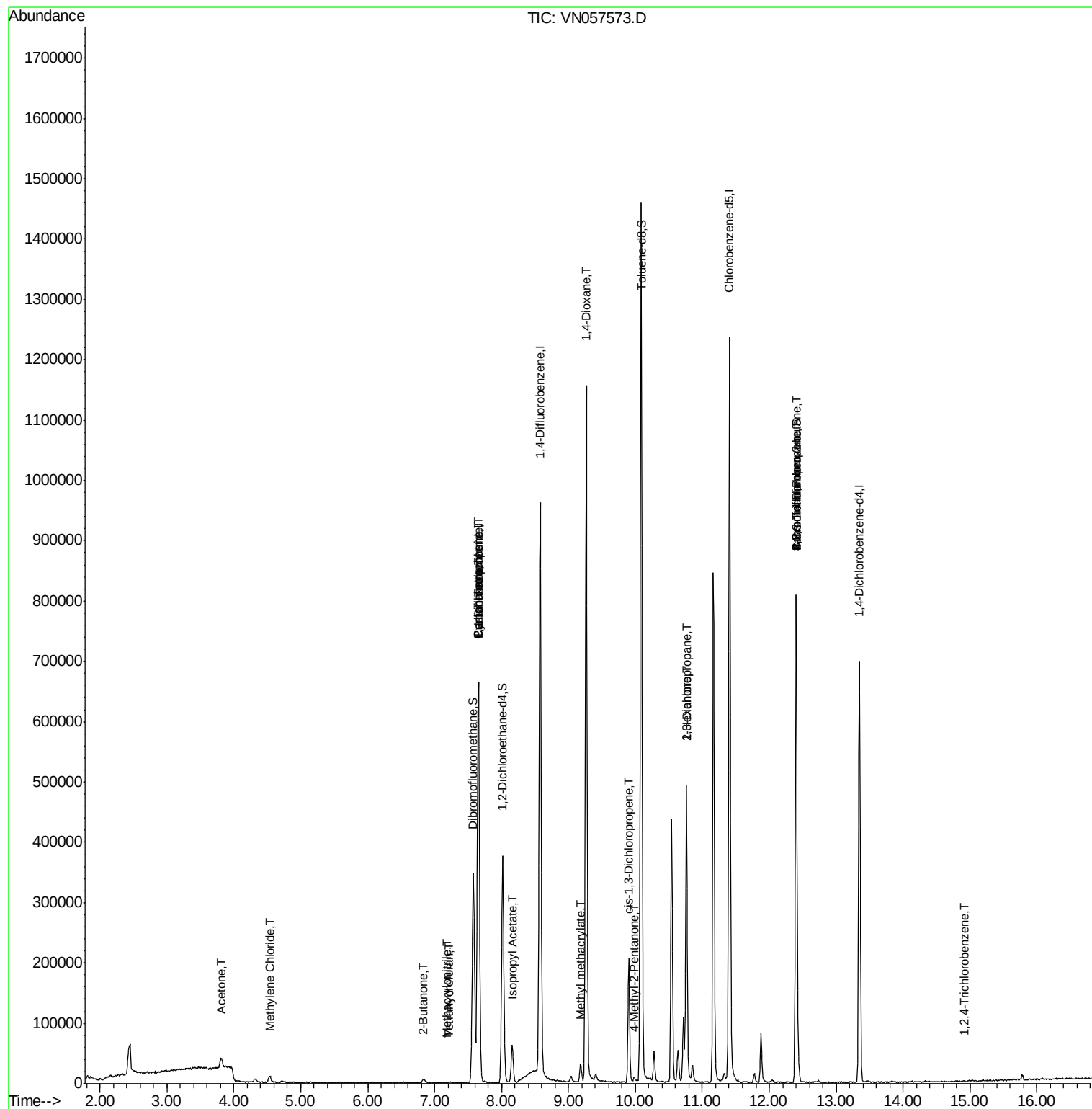
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.81	43	23657	6.540	ug/l	90
18) Methyl Acetate	4.32	43	10084	Below Cal	#	90
20) Methylene Chloride	4.53	84	7040	1.051	ug/l #	89
25) 2-Butanone	6.83	43	880	0.308	ug/l #	50
29) Tetrahydrofuran	7.20	42	358	0.200	ug/l #	71
31) Cyclohexane	7.65	56	11597	1.116	ug/l #	28
36) 1,1-Dichloropropene	7.66	75	42264	4.649	ug/l #	51
38) Carbon Tetrachloride	7.65	117	52534	4.942	ug/l #	16
41) Methacrylonitrile	7.18	41	321	1.380	ug/l #	31
43) Isopropyl Acetate	8.16	43	72910	6.485	ug/l #	95
48) Methyl methacrylate	9.18	41	4052	0.763	ug/l #	15
49) 1,4-Dioxane	9.27	88	30	0.310	ug/l #	1
51) 4-Methyl-2-Pentanone	9.99	43	5299	0.882	ug/l #	85
54) cis-1,3-Dichloropropene	9.90	75	39053	3.548	ug/l #	58
57) 1,3-Dichloropropane	10.76	76	5518	0.498	ug/l #	44
59) 2-Hexanone	10.76	43	71438	17.220	ug/l #	56
71) Bromoform	12.40	173	1949	0.403	ug/l #	1
73) Isopropylbenzene	12.40	105	117	Below Cal	#	50
74) N-amyl acetate	12.04	43	2336	Below Cal	#	52
75) 1,1,2,2-Tetrachloroethane	12.41	83	30	Below Cal	#	46
76) 1,2,3-Trichloropropane	12.40	75	155187	42.152	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	155187	118.017	ug/l #	8
83) tert-Butylbenzene	12.73	119	209	Below Cal	#	35
93) 1,2,4-Trichlorobenzene	14.92	180	63	3.804	ug/l #	13

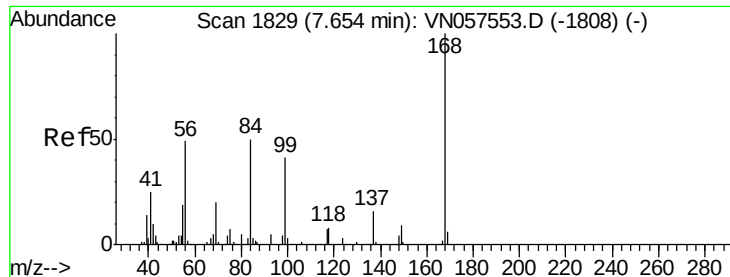
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Aug 30 08:56:38 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN057573.D

Acq: 30 Aug 2019 1:32

Instrument :

MSVOA_N

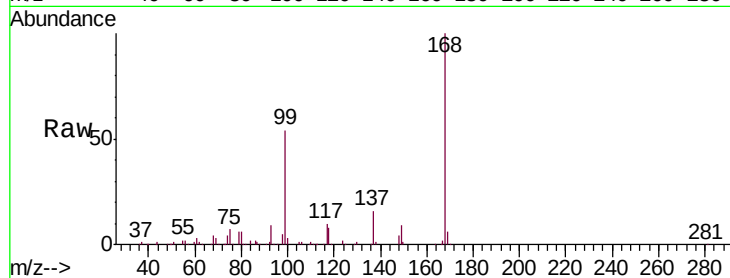
ClientSampleId :

Tot Ion:168 Resp: 546729

Ion Ratio Lower Upper

168 100

99 53.8 50.6 76.0



Abundance Ion 167.90 (167.60 to 168.60): VN057573.D (-1736) (-)

Ion 98.90 (98.60 to 99.60): VN057573.D (-1736) (-)

7.65

250000

200000

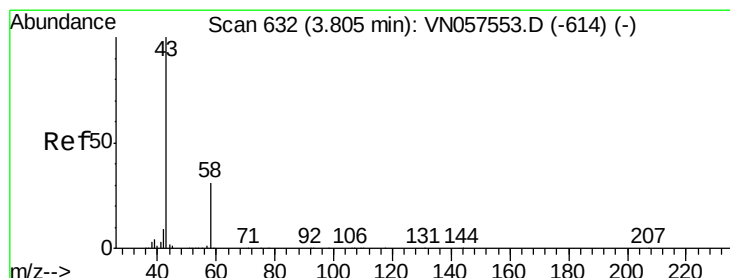
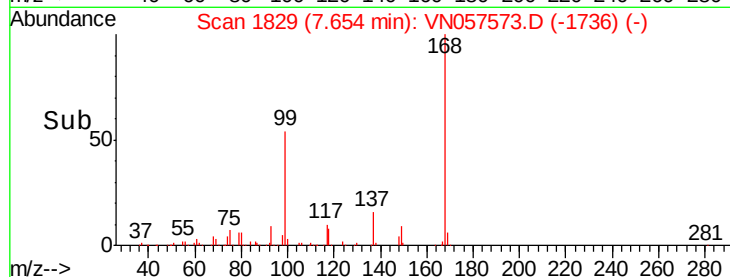
150000

100000

50000

0

Time-->



#16

Acetone

Concen: 6.540 ug/l

RT: 3.81 min Scan# 633

Delta R.T. 0.00 min

Lab File: VN057573.D

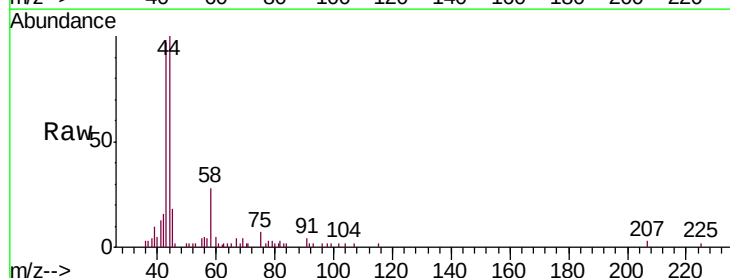
Acq: 30 Aug 2019 1:32

Tgt Ion: 43 Resp: 23657

Ion Ratio Lower Upper

43 100

58 32.8 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VN057573.D (-539) (-)

Ion 58.00 (57.70 to 58.70): VN057573.D (-539) (-)

3.81

12000

10000

8000

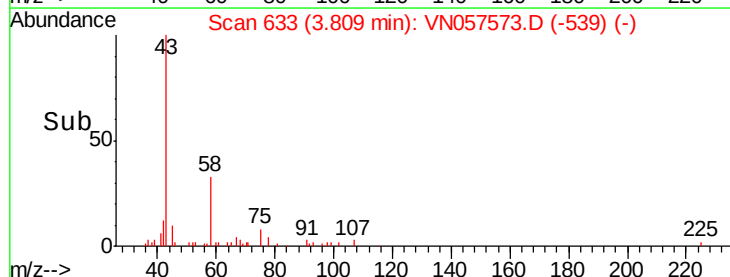
6000

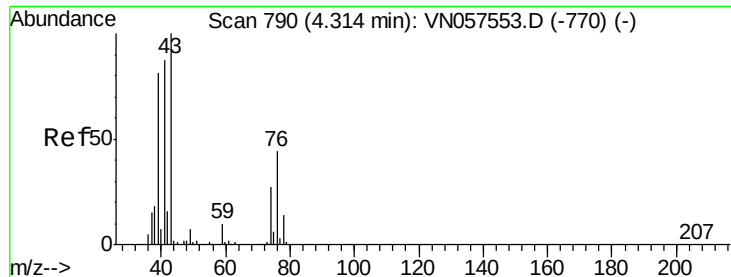
4000

2000

0

Time-->

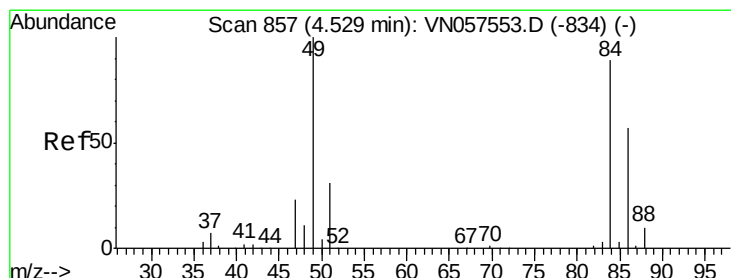
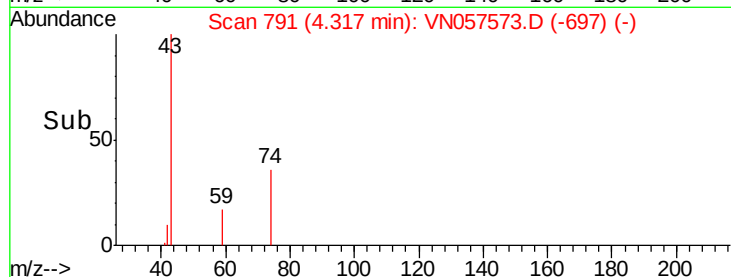
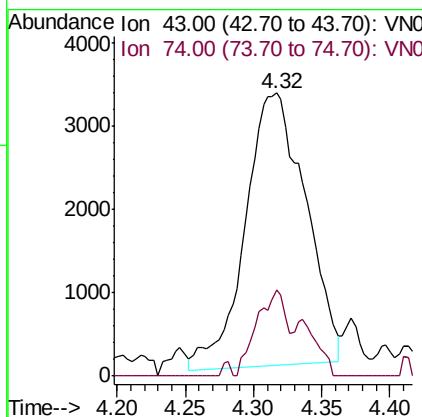
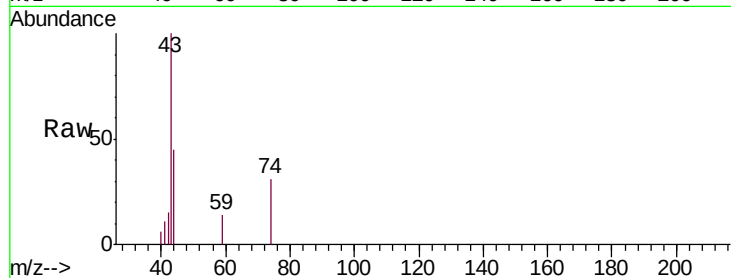




#18
Methyl Acetate
Concen: Below Cal
RT: 4.32 min Scan# 791
Delta R.T. 0.00 min
Lab File: VN057573.D
Acq: 30 Aug 2019 1:32

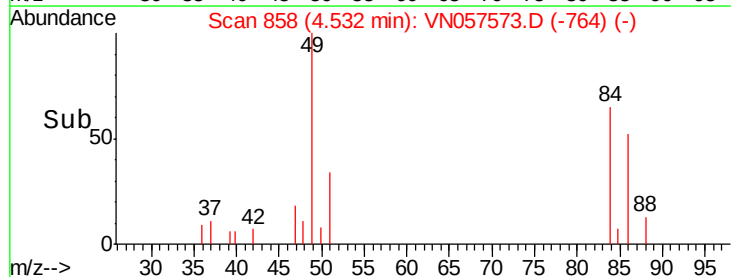
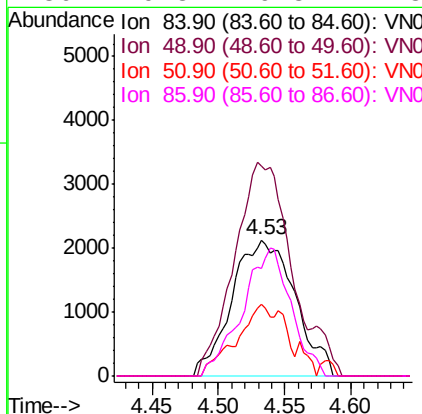
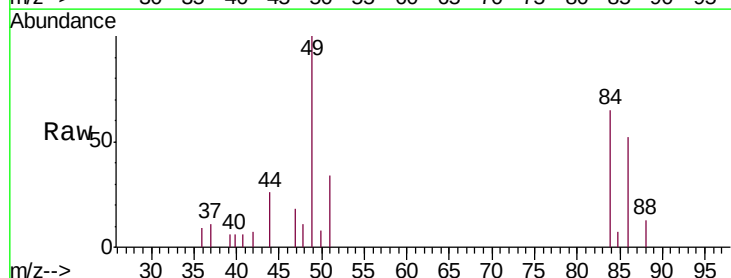
Instrument :
MSVOA_N
ClientSampleId :

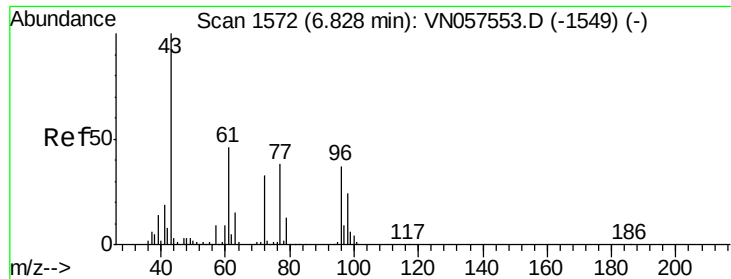
Tot Ion: 43 Resp: 10084
Ion Ratio Lower Upper
43 100
74 15.4 15.9 23.9#



#20
Methylene Chloride
Concen: 1.051 ug/l
RT: 4.53 min Scan# 858
Delta R.T. 0.00 min
Lab File: VN057573.D
Acq: 30 Aug 2019 1:32

Tgt Ion: 84 Resp: 7040
Ion Ratio Lower Upper
84 100
49 153.7 117.0 175.4
51 52.7 35.5 53.3
86 79.3 49.8 74.8#





#25

2-Butanone

Concen: 0.308 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. 0.01 min

Lab File: VN057573.D

Acq: 30 Aug 2019 1:32

Instrument :

MSVOA_N

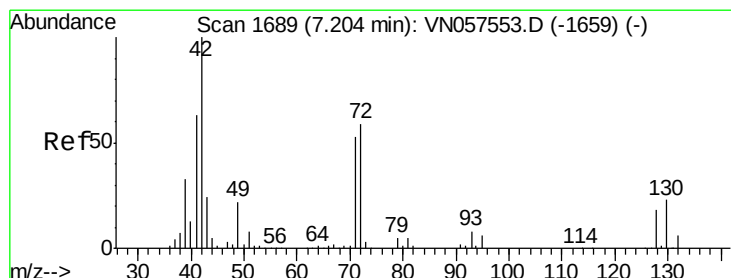
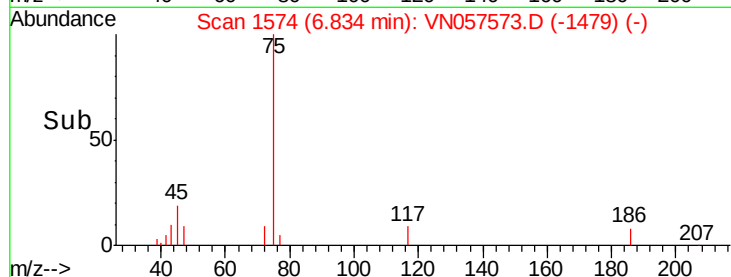
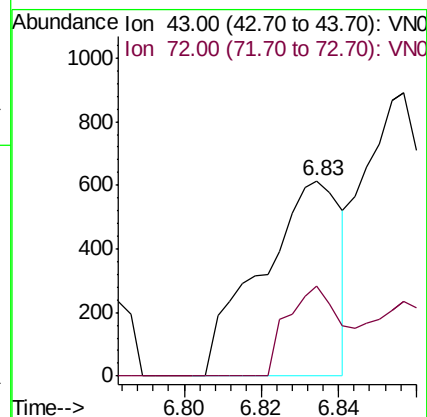
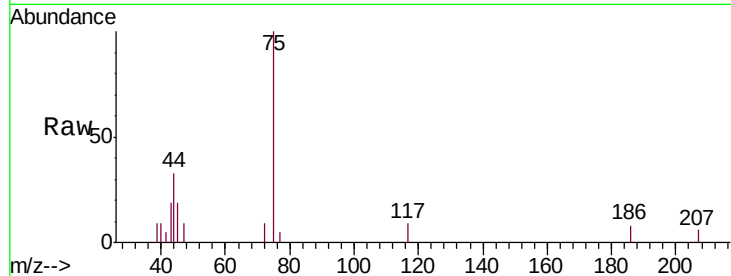
ClientSampled :

Tot Ion: 43 Resp: 880

Ion Ratio Lower Upper

43 100

72 46.3 17.8 26.8#



#29

Tetrahydrofuran

Concen: 0.200 ug/l

RT: 7.20 min Scan# 1689

Delta R.T. 0.00 min

Lab File: VN057573.D

Acq: 30 Aug 2019 1:32

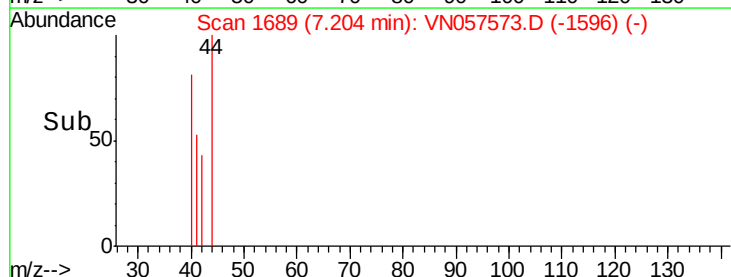
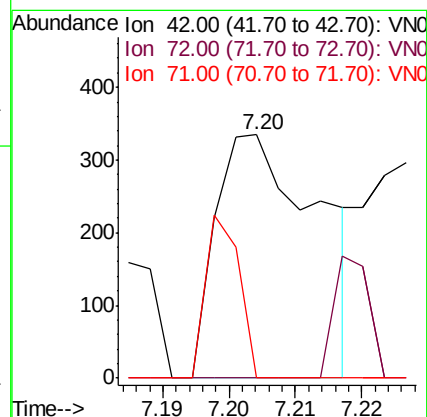
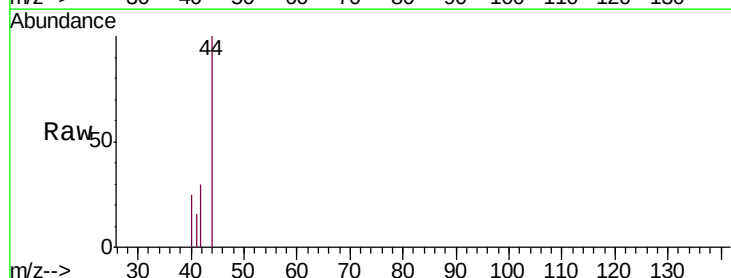
Tgt Ion: 42 Resp: 358

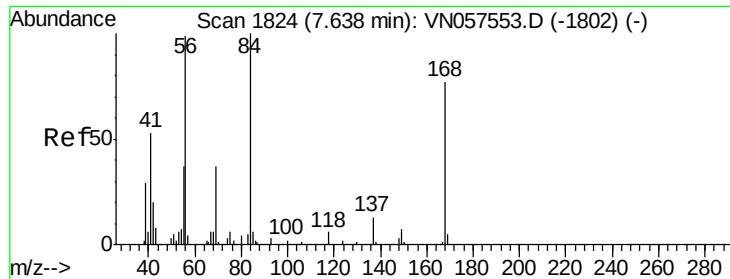
Ion Ratio Lower Upper

42 100

72 17.3 30.1 45.1#

71 21.8 28.8 43.2#

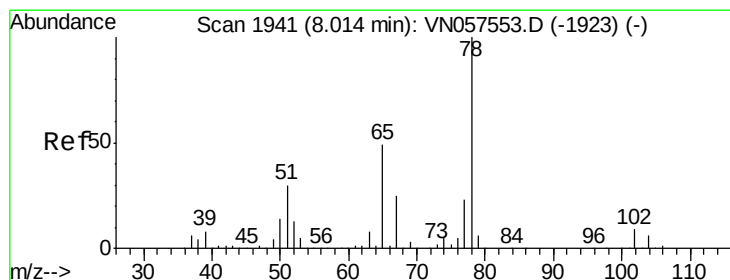
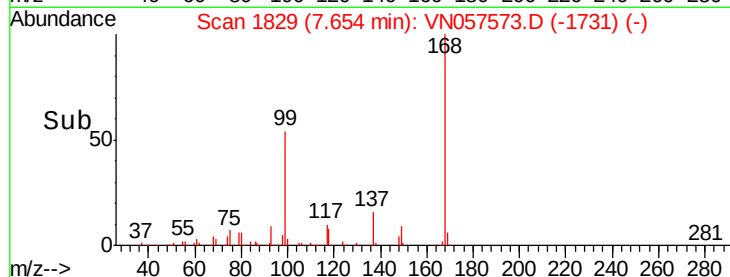
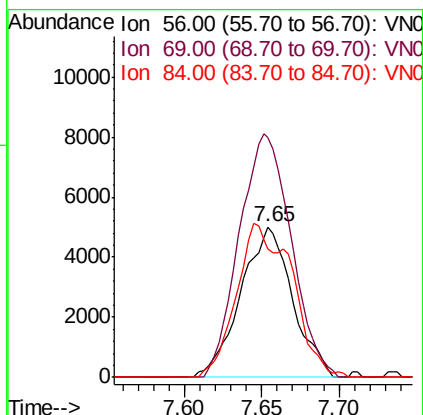
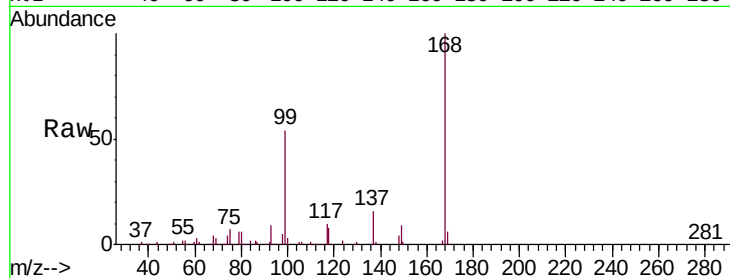




#31
Cyclohexane
Concen: 1.116 ug/l
RT: 7.65 min Scan# 1829
Delta R.T. 0.02 min
Lab File: VN057573.D
Acq: 30 Aug 2019 1:32

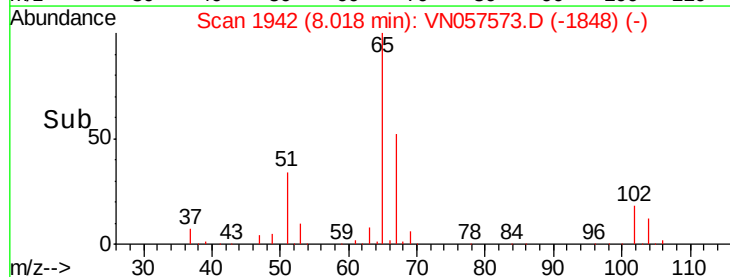
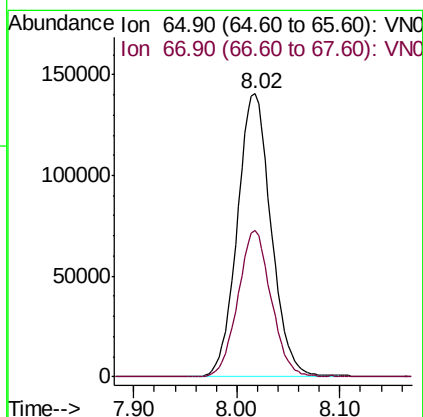
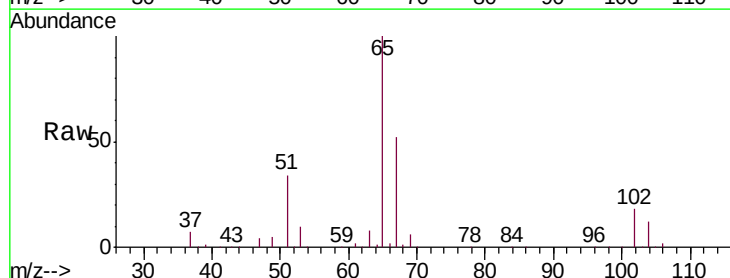
Instrument :
MSVOA_N
ClientSampled :

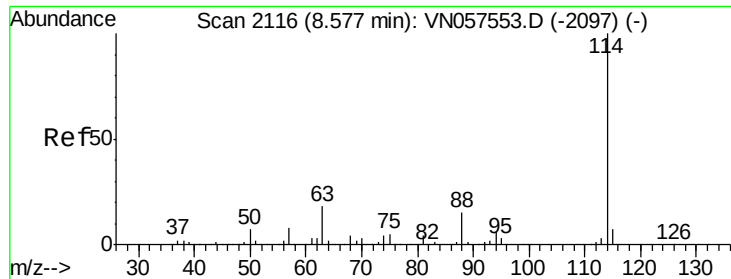
Tot Ion: 56 Resp: 11597
Ion Ratio Lower Upper
56 100
69 159.3 25.0 37.6#
84 85.4 62.5 93.7



#33
1,2-Dichloroethane-d4
Concen: 37.405 ug/l
RT: 8.02 min Scan# 1942
Delta R.T. 0.00 min
Lab File: VN057573.D
Acq: 30 Aug 2019 1:32

Tgt Ion: 65 Resp: 321583
Ion Ratio Lower Upper
65 100
67 50.7 0.0 103.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.58 min Scan# 2116

Delta R.T. 0.00 min

Lab File: VN057573.D

Acq: 30 Aug 2019 1:32

Instrument :

MSVOA_N

ClientSampleId :

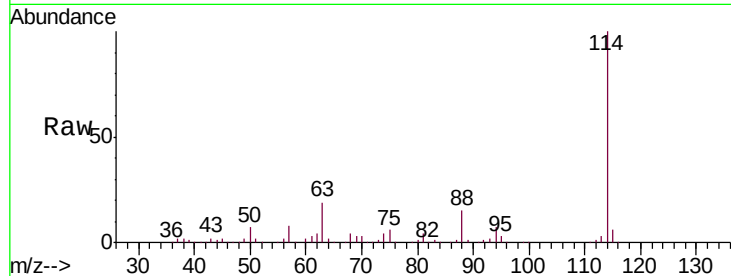
Tot Ion:114 Resp: 840376

Ion Ratio Lower Upper

114 100

63 18.7 0.0 50.2

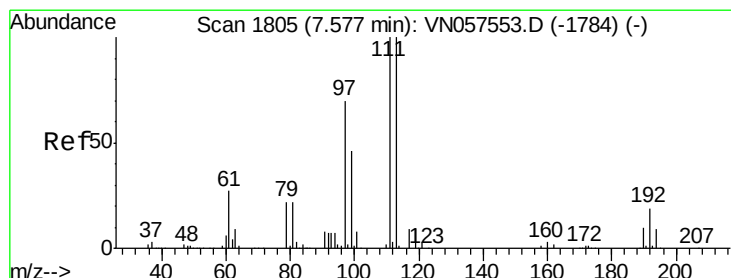
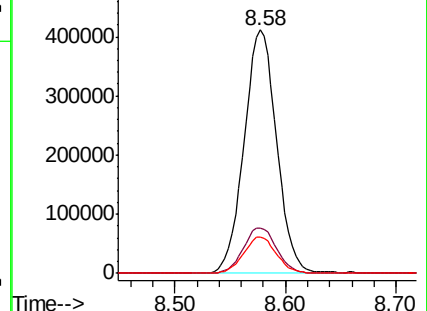
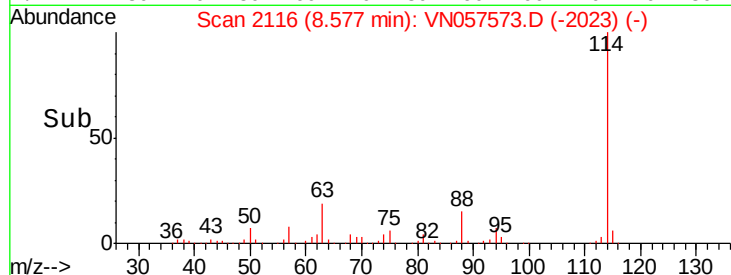
88 15.1 0.0 34.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 35.160 ug/l

RT: 7.58 min Scan# 1805

Delta R.T. 0.00 min

Lab File: VN057573.D

Acq: 30 Aug 2019 1:32

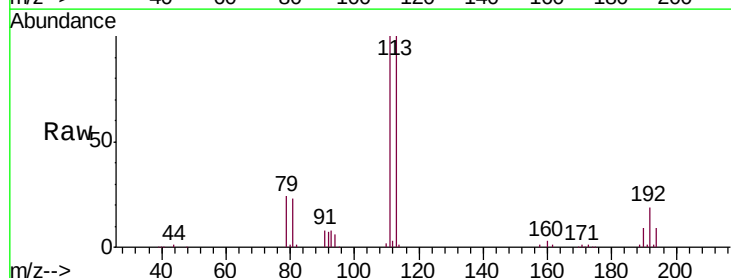
Tgt Ion:113 Resp: 256491

Ion Ratio Lower Upper

113 100

111 103.2 83.8 125.6

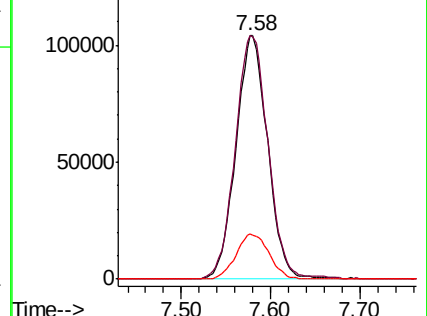
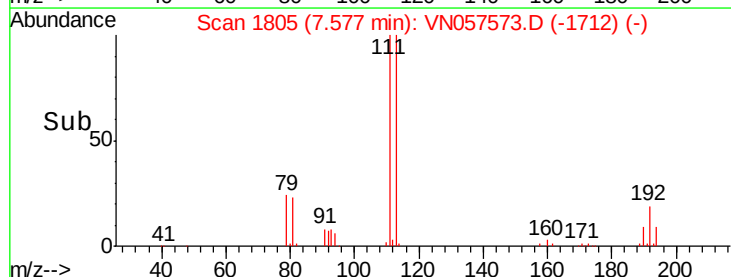
192 19.2 13.5 20.3

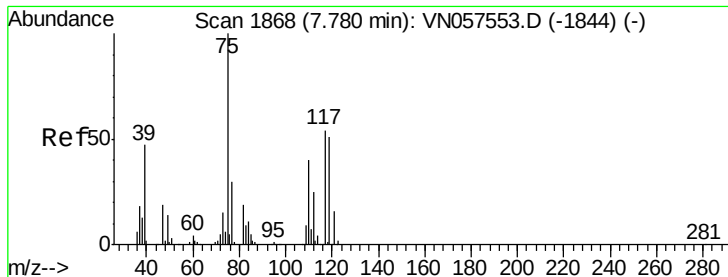


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.649 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. -0.12 min

Lab File: VN057573.D

Acq: 30 Aug 2019 1:32

Instrument :

MSVOA_N

ClientSampleId :

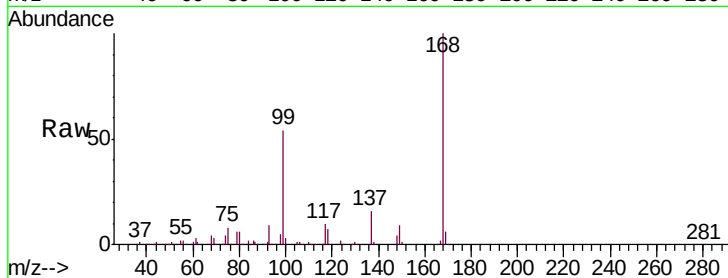
Tot Ion: 75 Resp: 42264

Ion Ratio Lower Upper

75 100

110 9.0 16.1 48.3#

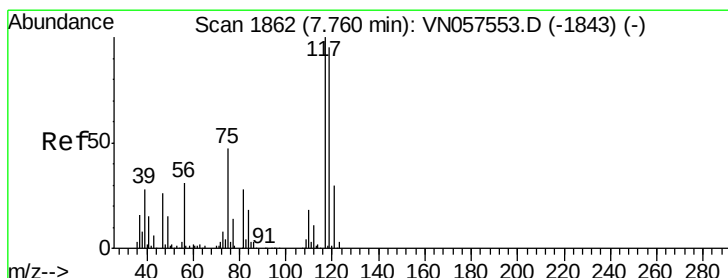
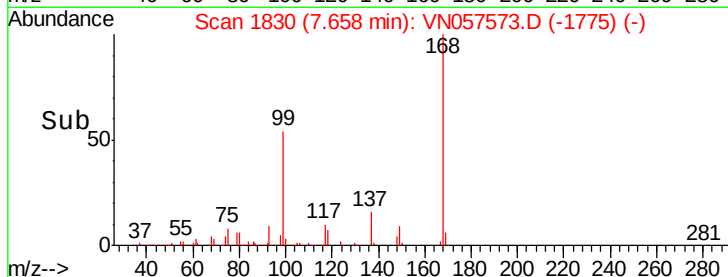
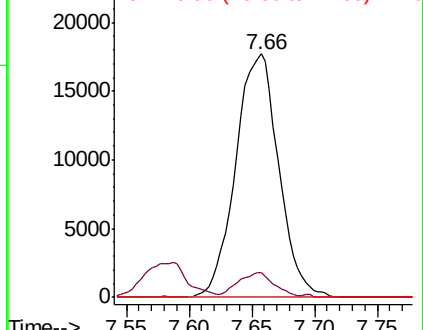
77 0.0 24.8 37.2#



Abundance Ion 74.90 (74.60 to 75.60): VN057573.D (-1775) (-)

Ion 109.90 (109.60 to 110.60): VN057573.D (-1775) (-)

Ion 76.90 (76.60 to 77.60): VN057573.D (-1775) (-)



#38

Carbon Tetrachloride

Concen: 4.942 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. -0.11 min

Lab File: VN057573.D

Acq: 30 Aug 2019 1:32

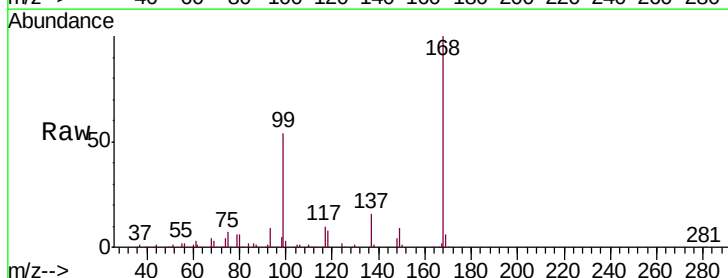
Tgt Ion: 117 Resp: 52534

Ion Ratio Lower Upper

117 100

119 4.7 76.2 114.4#

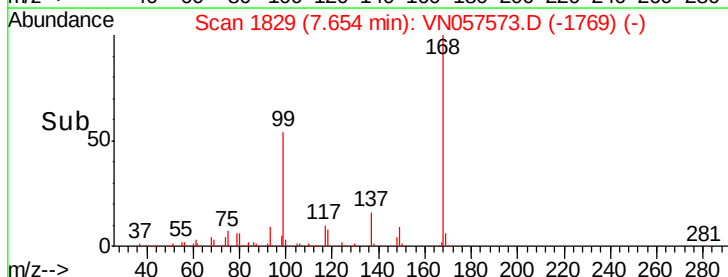
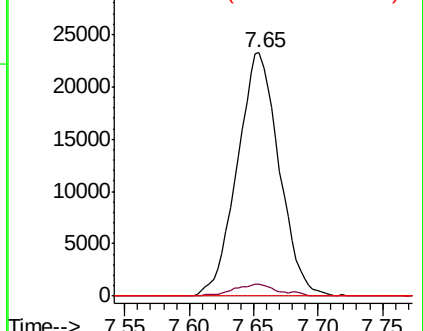
121 0.0 23.8 35.6#

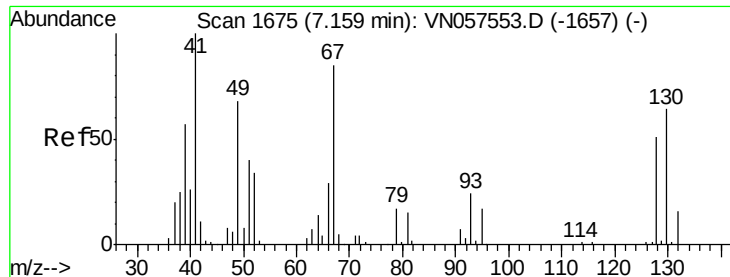


Abundance Ion 116.80 (116.50 to 117.50): VN057573.D (-1769) (-)

Ion 118.80 (118.50 to 119.50): VN057573.D (-1769) (-)

Ion 120.80 (120.50 to 121.50): VN057573.D (-1769) (-)

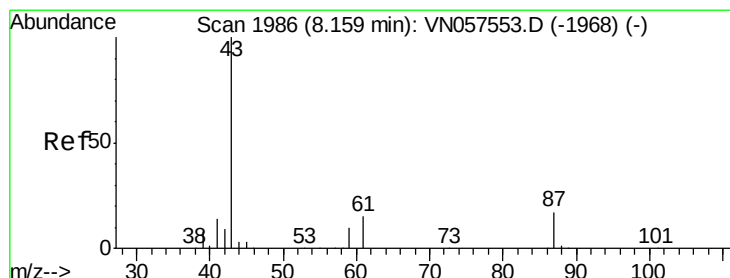
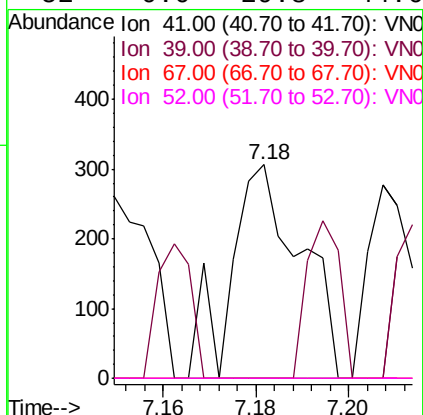
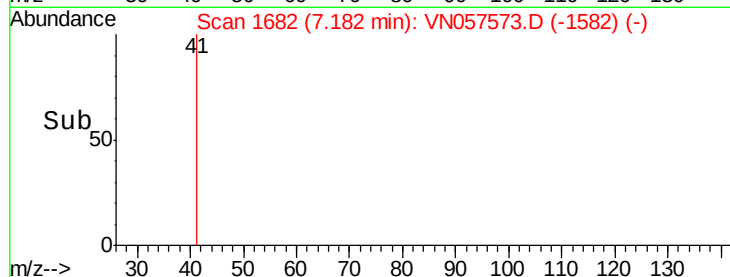
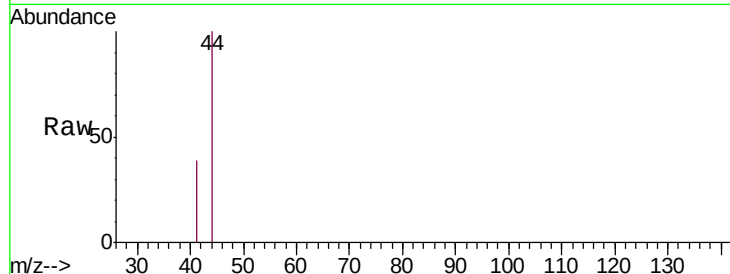




#41
Methacrylonitrile
Concen: 1.380 ug/l
RT: 7.18 min Scan# 1682
Delta R.T. 0.02 min
Lab File: VN057573.D
Acq: 30 Aug 2019 1:32

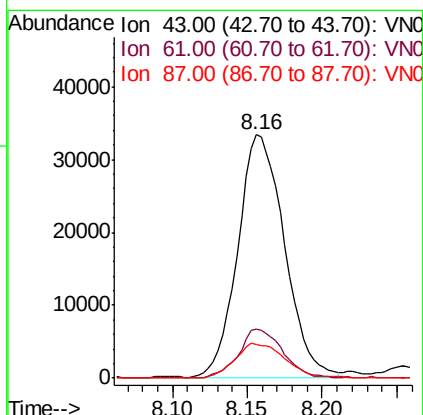
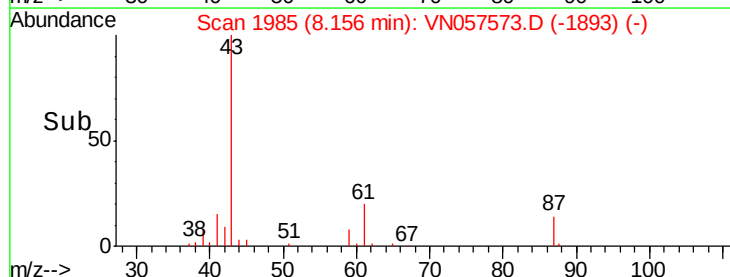
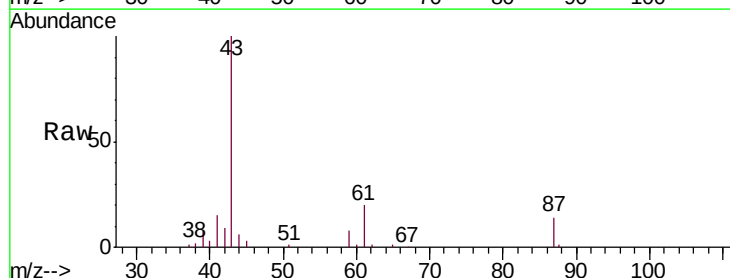
Instrument :
MSVOA_N
ClientSampled :

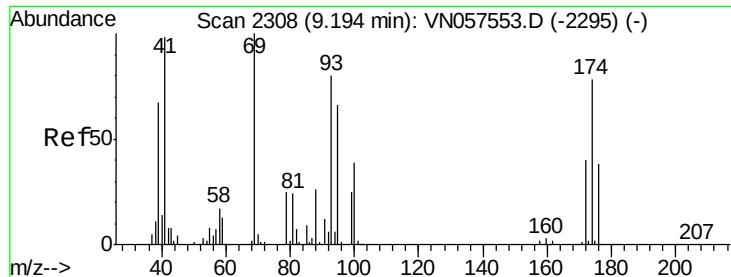
Tot Ion: 41 Resp: 321
Ion Ratio Lower Upper
41 100
39 30.5 53.6 80.4#
67 0.0 65.4 98.2#
52 0.0 29.8 44.6#



#43
Isopropyl Acetate
Concen: 6.485 ug/l
RT: 8.16 min Scan# 1985
Delta R.T. -0.00 min
Lab File: VN057573.D
Acq: 30 Aug 2019 1:32

Tgt Ion: 43 Resp: 72910
Ion Ratio Lower Upper
43 100
61 18.9 14.5 21.7
87 14.9 8.6 12.8#

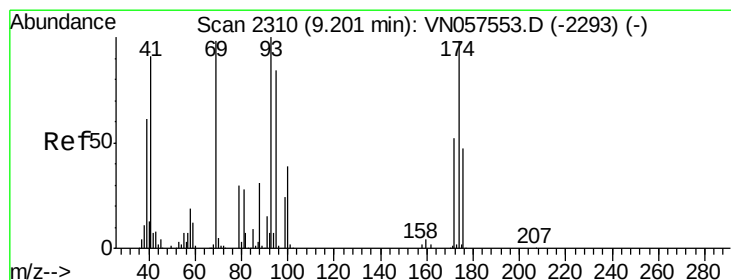
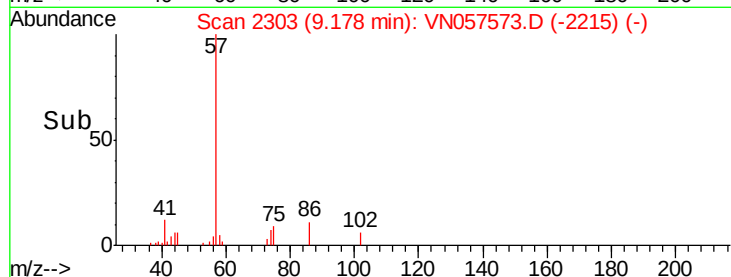
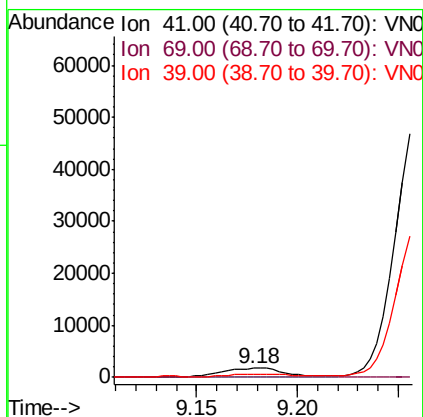
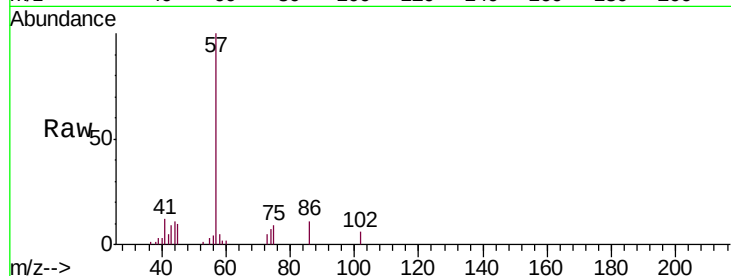




#48
Methvl methacrylate
Concen: 0.763 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN057573.D
Acq: 30 Aug 2019 1:32

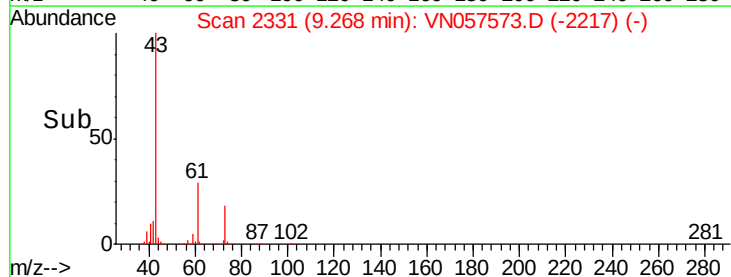
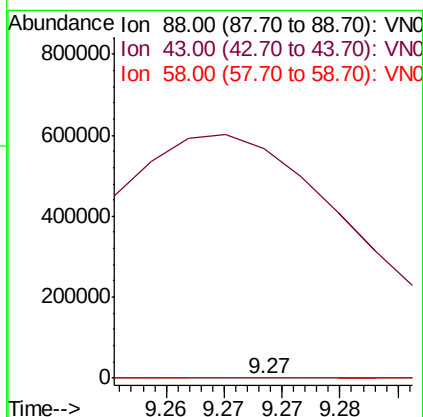
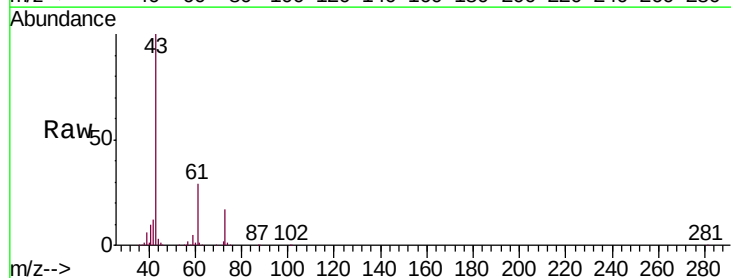
Instrument :
MSVOA_N
ClientSampleId :

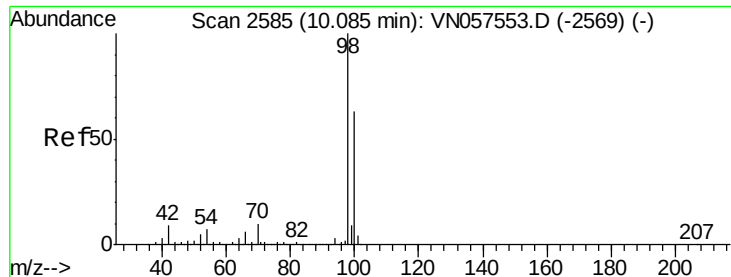
Tot Ion: 41 Resp: 4052
Ion Ratio Lower Upper
41 100
69 0.0 59.3 88.9#
39 0.0 50.6 75.8#



#49
1,4-Dioxane
Concen: 0.310 ug/l
RT: 9.27 min Scan# 2331
Delta R.T. 0.07 min
Lab File: VN057573.D
Acq: 30 Aug 2019 1:32

Tgt Ion: 88 Resp: 30
Ion Ratio Lower Upper
88 100
43 3658940.0 31.0 46.6#
58 16520.0 64.5 96.7#





#50

Toluene-d8

Concen: 38.894 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN057573.D

Acq: 30 Aug 2019 1:32

Instrument :

MSVOA_N

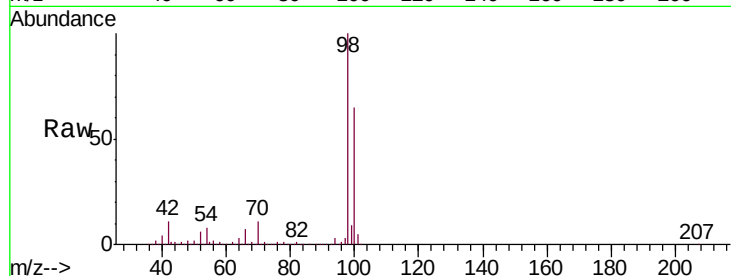
ClientSampled :

Tot Ion: 98 Resp: 1036970

Ion Ratio Lower Upper

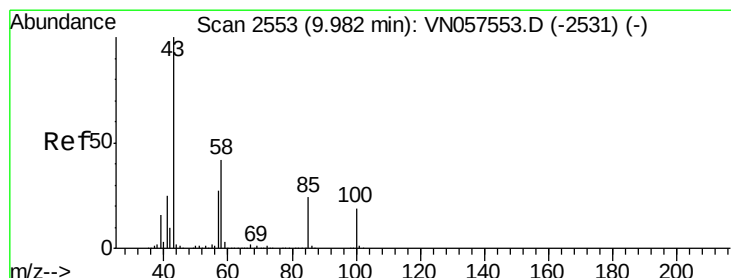
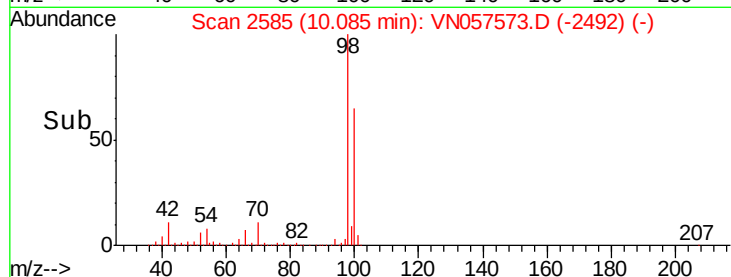
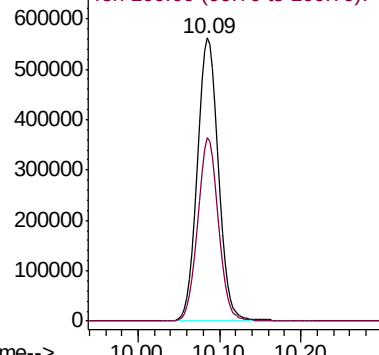
98 100

100 63.5 50.4 75.6



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#51

4-Methyl-2-Pentanone

Concen: 0.882 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN057573.D

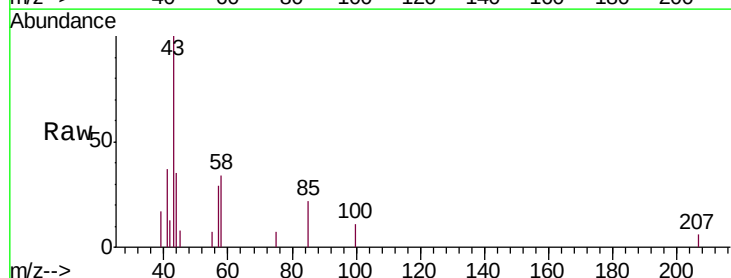
Acq: 30 Aug 2019 1:32

Tgt Ion: 43 Resp: 5299

Ion Ratio Lower Upper

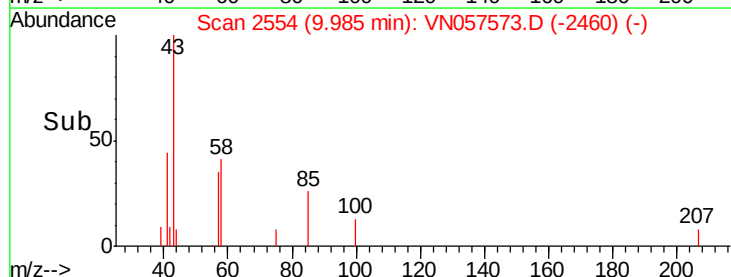
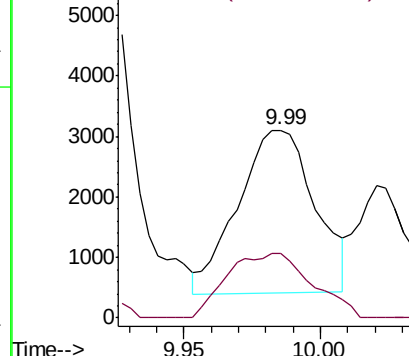
43 100

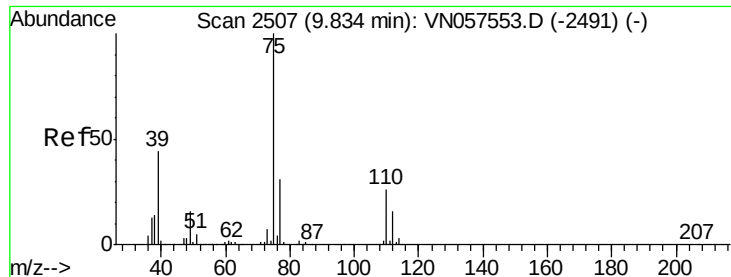
58 43.6 27.9 41.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



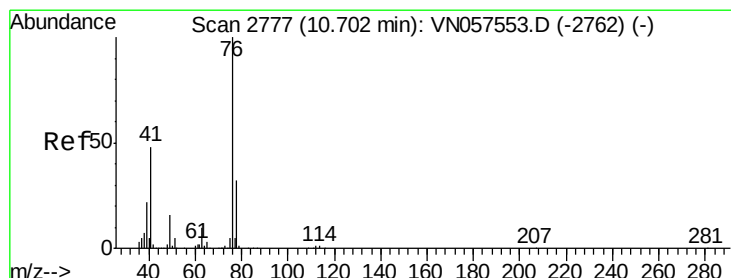
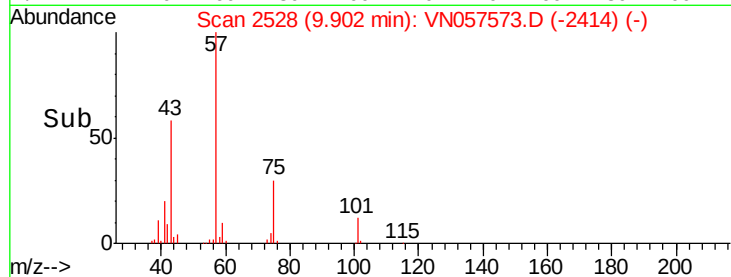
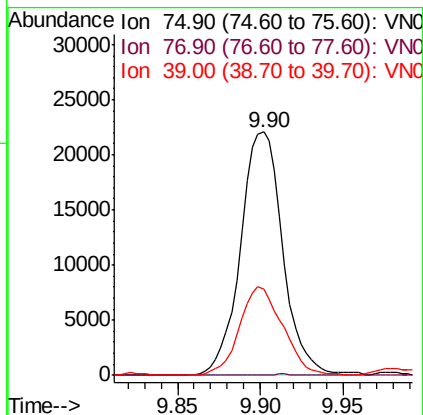
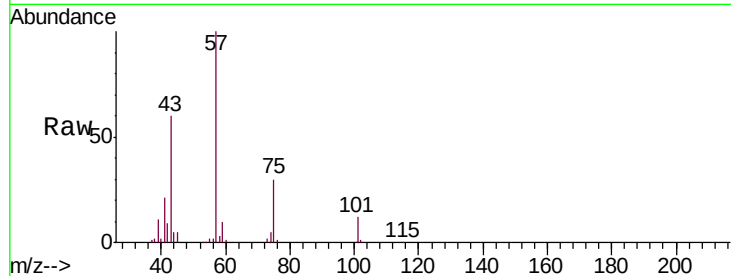


#54

cis-1,3-Dichloropropene
 Concen: 3.548 ug/l
 RT: 9.90 min Scan# 2528
 Delta R.T. 0.07 min
 Lab File: VN057573.D
 Acq: 30 Aug 2019 1:32

Instrument :
 MSVOA_N
 ClientSampleId :

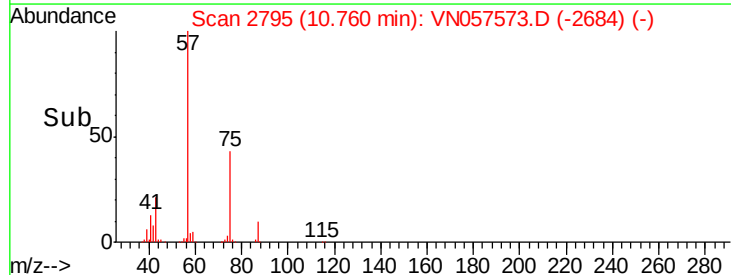
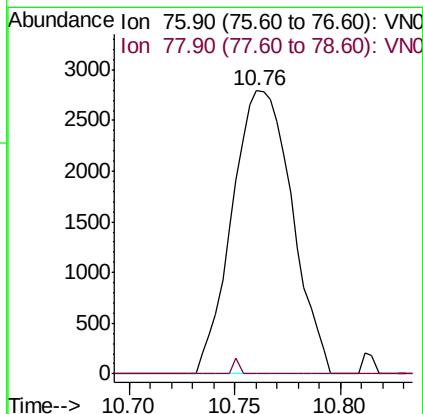
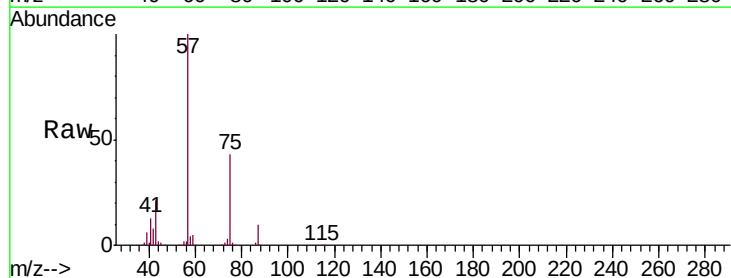
Tot Ion: 75 Resp: 39053
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.0 37.6#
 39 35.4 49.2 73.8#

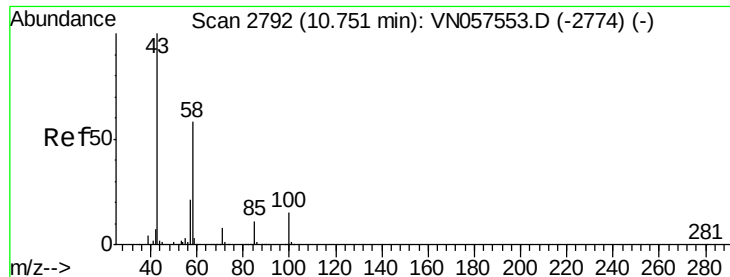


#57

1,3-Dichloropropane
 Concen: 0.498 ug/l
 RT: 10.76 min Scan# 2795
 Delta R.T. 0.06 min
 Lab File: VN057573.D
 Acq: 30 Aug 2019 1:32

Tgt Ion: 76 Resp: 5518
 Ion Ratio Lower Upper
 76 100
 78 0.5 25.5 38.3#





#59

2-Hexanone

Concen: 17.220 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.01 min

Lab File: VN057573.D

Acq: 30 Aug 2019 1:32

Instrument :

MSVOA_N

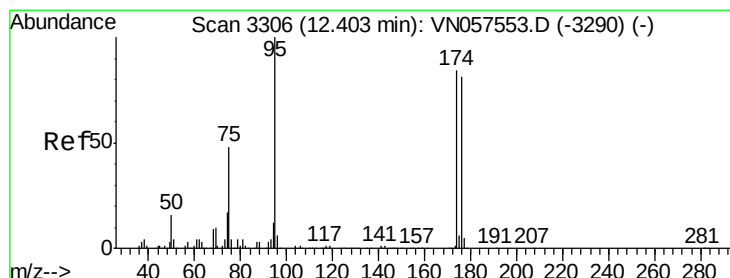
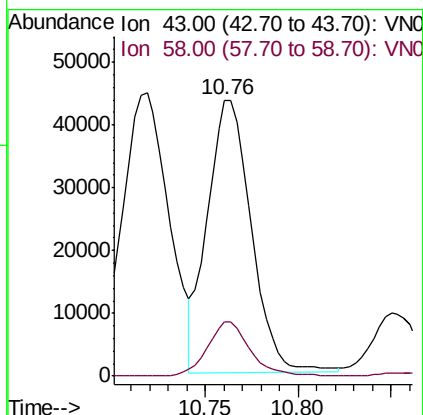
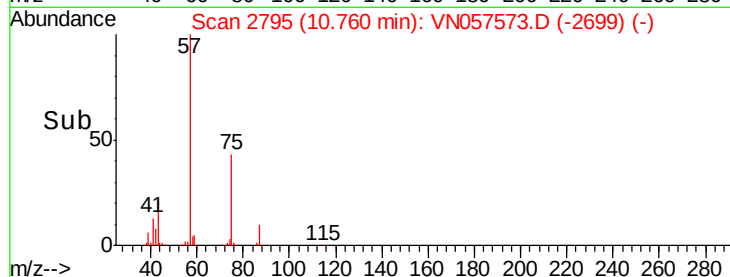
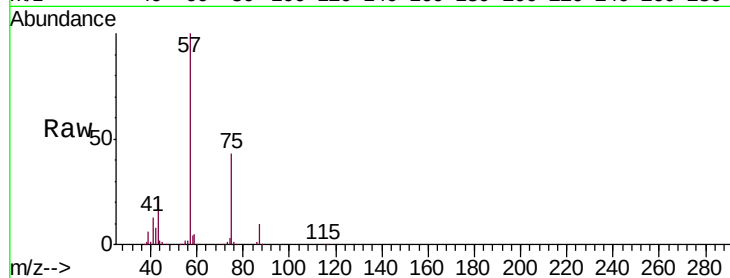
ClientSampled :

Tot Ion: 43 Resp: 71438

Ion Ratio Lower Upper

43 100

58 19.3 24.6 73.6#



#62

4-Bromofluorobenzene

Concen: 31.352 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN057573.D

Acq: 30 Aug 2019 1:32

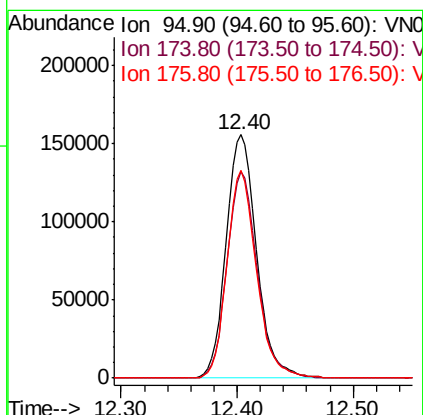
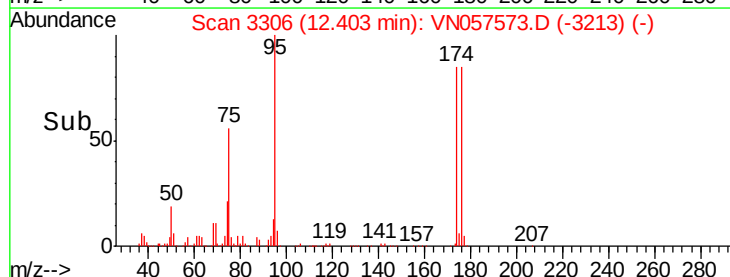
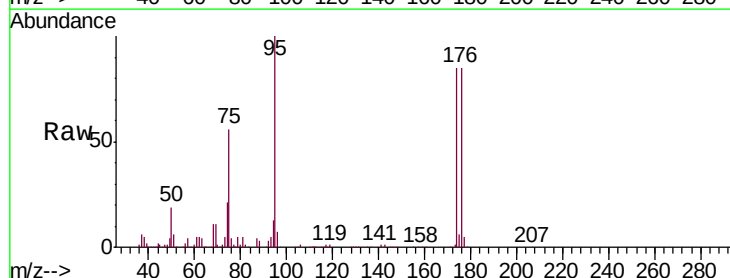
Tgt Ion: 95 Resp: 282851

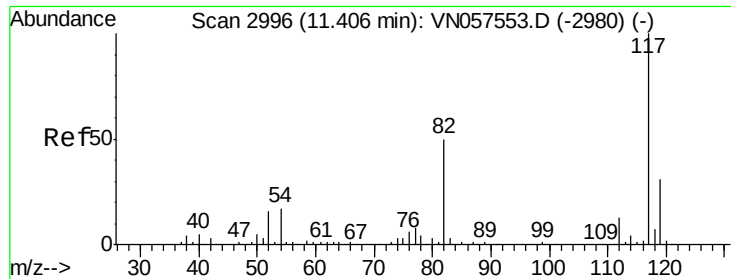
Ion Ratio Lower Upper

95 100

174 83.9 0.0 133.0

176 82.3 0.0 130.8

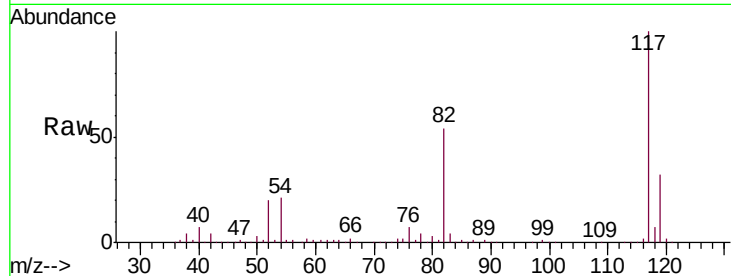




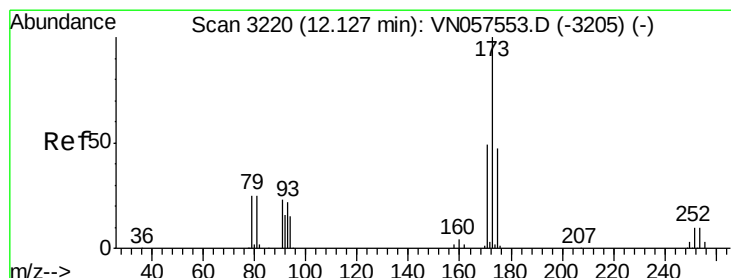
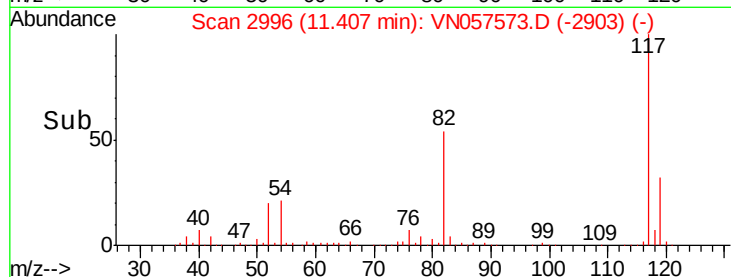
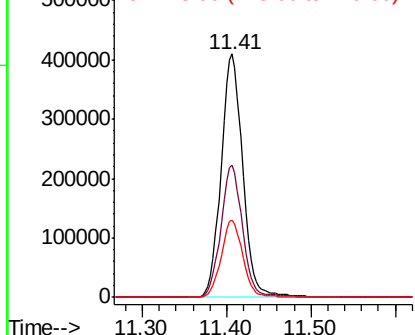
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN057573.D
Acq: 30 Aug 2019 1:32

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 732498
Ion Ratio Lower Upper
117 100
82 54.4 50.6 75.8
119 31.6 24.6 36.8

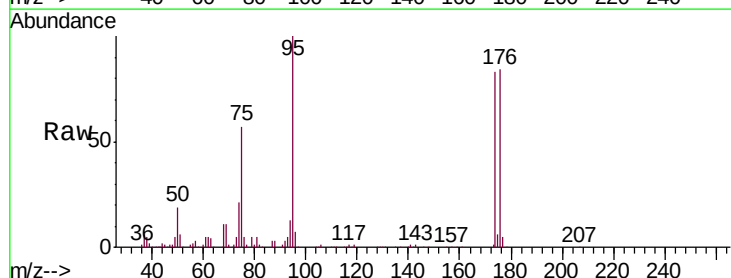


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

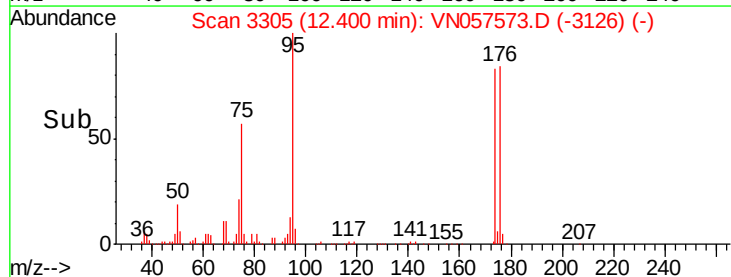
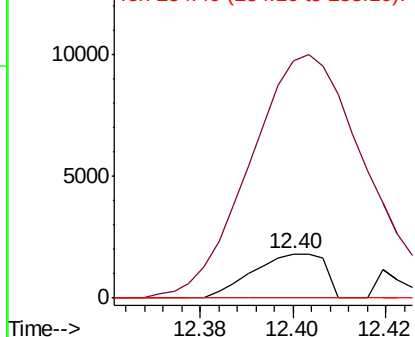


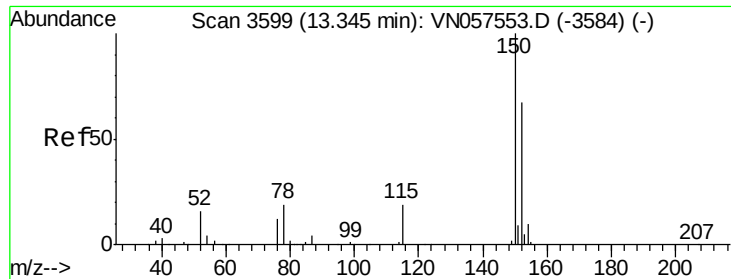
#71
Bromoform
Concen: 0.403 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN057573.D
Acq: 30 Aug 2019 1:32

Tgt Ion:173 Resp: 1949
Ion Ratio Lower Upper
173 100
175 734.6 23.9 71.8#
254 0.0 0.1 0.1#



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



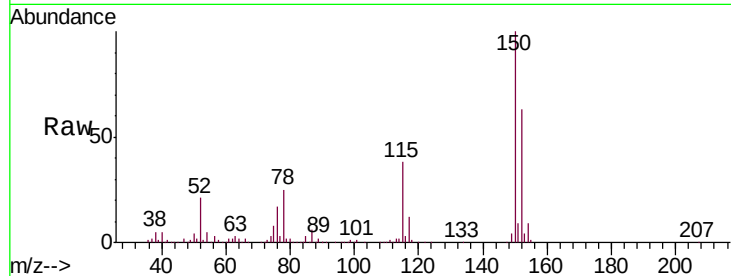


#72

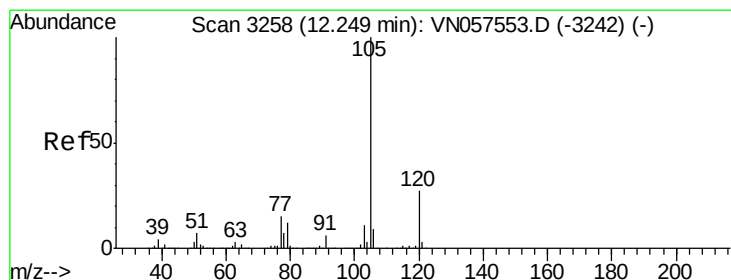
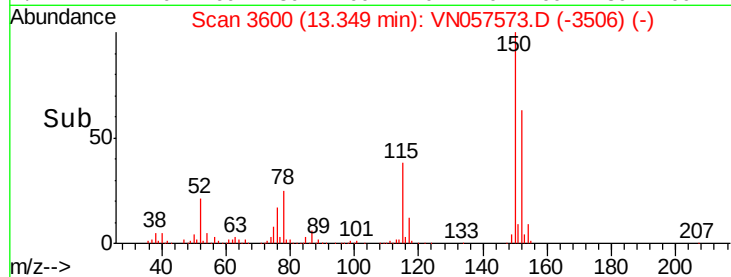
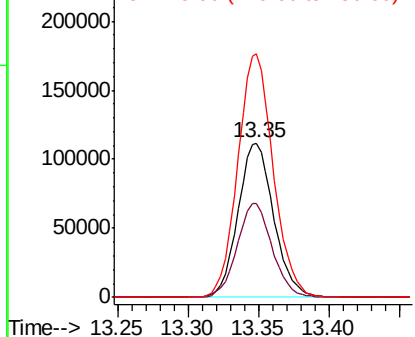
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3600
Delta R.T. 0.00 min
Lab File: VN057573.D
Acq: 30 Aug 2019 1:32

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:152 Resp: 197724
Ion Ratio Lower Upper
152 100
115 59.9 32.0 96.0
150 157.0 0.0 346.6



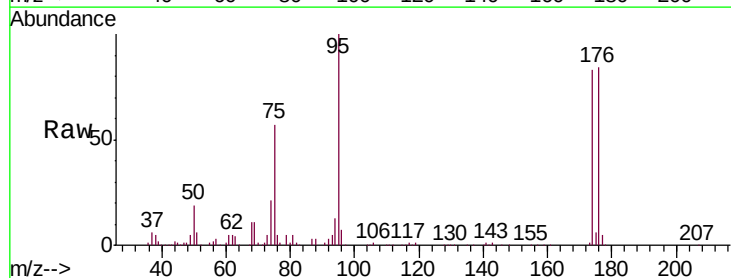
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



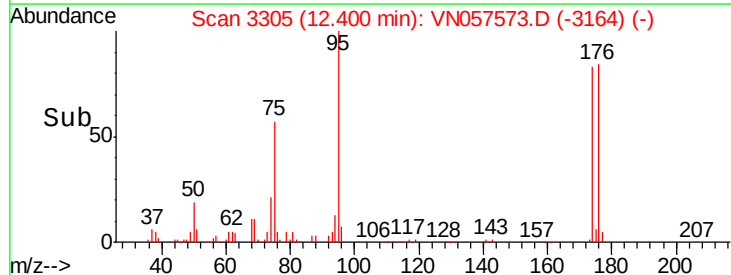
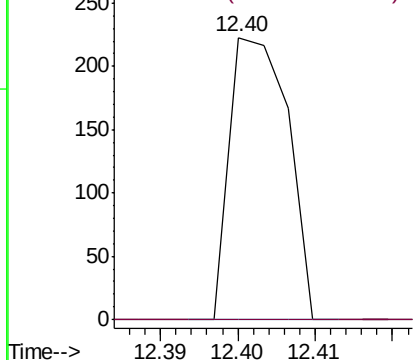
#73

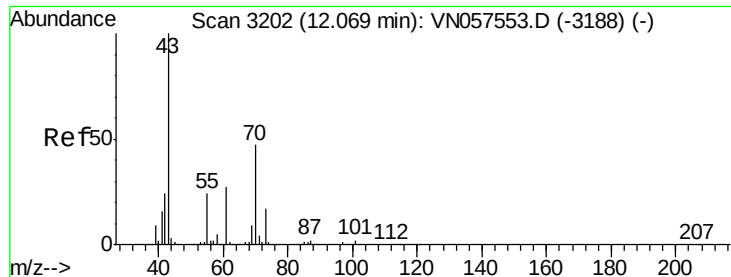
Isopropylbenzene
Concen: Below Cal
RT: 12.40 min Scan# 3305
Delta R.T. 0.15 min
Lab File: VN057573.D
Acq: 30 Aug 2019 1:32

Tgt Ion:105 Resp: 117
Ion Ratio Lower Upper
105 100
120 0.0 12.7 38.0#



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#74

N-amvl acetate

Concen: Below Cal

RT: 12.04 min Scan# 3194

Delta R.T. -0.02 min

Lab File: VN057573.D

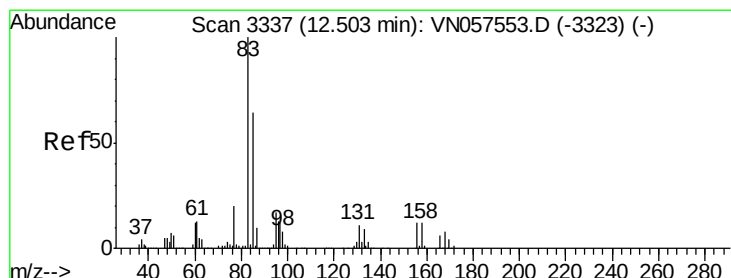
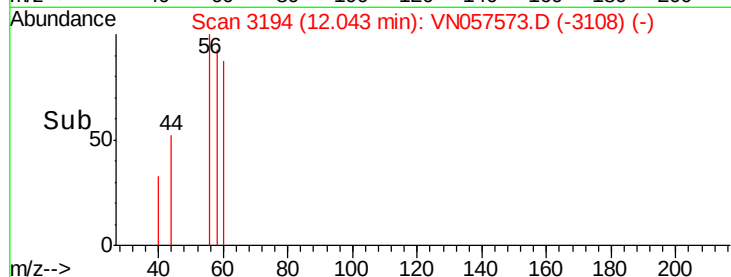
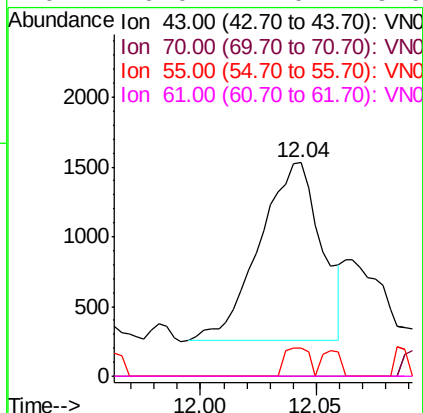
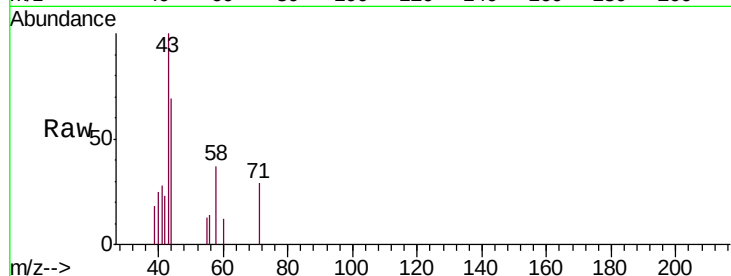
Acq: 30 Aug 2019 1:32

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion:	43	Resp:	2336
Ion	Ratio	Lower	Upper
43	100		
70	0.0	27.8	41.6#
55	6.3	17.0	25.4#
61	0.0	17.0	25.6#



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

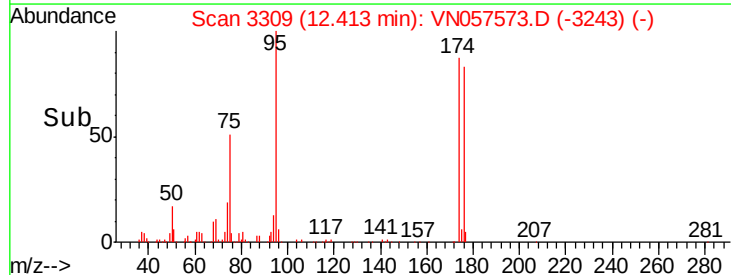
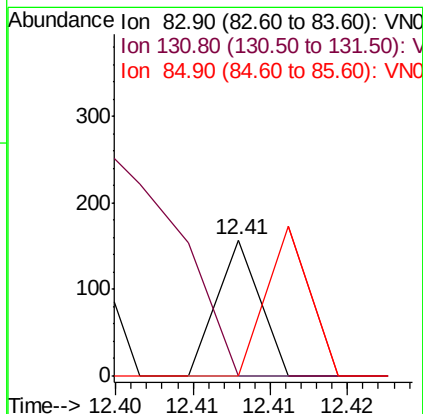
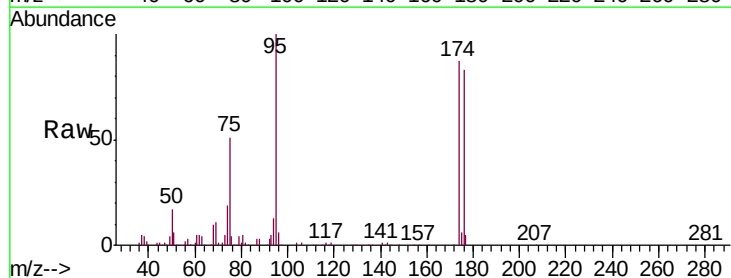
RT: 12.41 min Scan# 3309

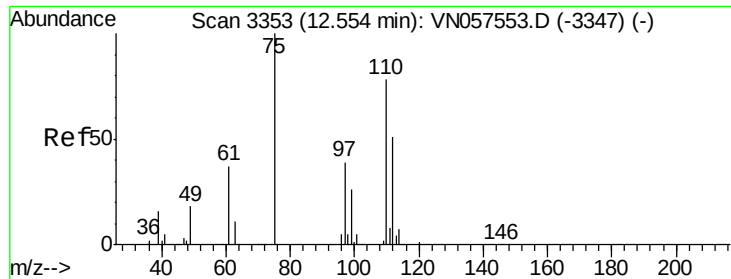
Delta R.T. -0.09 min

Lab File: VN057573.D

Acq: 30 Aug 2019 1:32

Tgt Ion:	83	Resp:	30
Ion	Ratio	Lower	Upper
83	100		
131	0.0	4.3	13.1#
85	110.0	32.3	96.8#





#76

1,2,3-Trichloropropane

Concen: 42.152 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057573.D

Acq: 30 Aug 2019 1:32

Instrument :

MSVOA_N

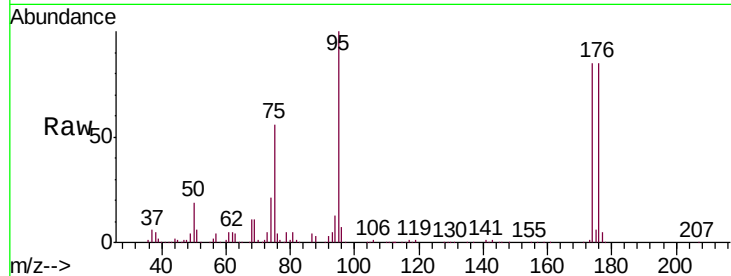
ClientSampleId :

Tot Ion: 75 Resp: 155187

Ion Ratio Lower Upper

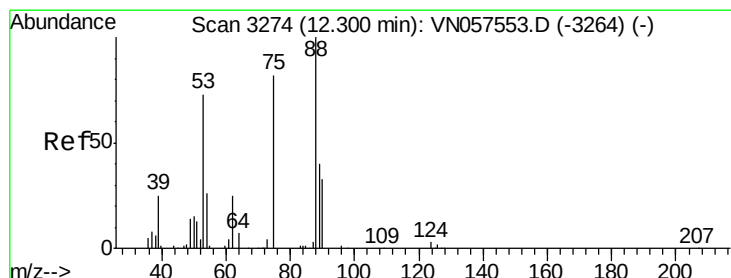
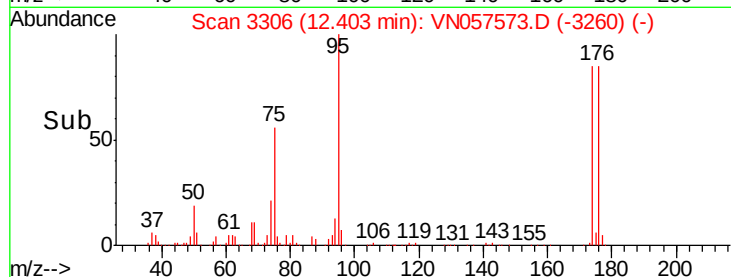
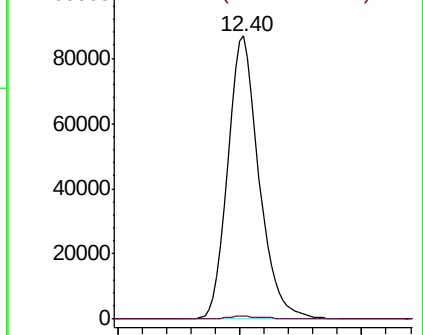
75 100

77 0.9 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: 118.017 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN057573.D

Acq: 30 Aug 2019 1:32

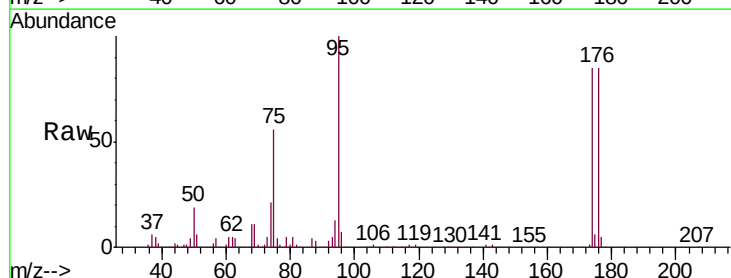
Tgt Ion: 75 Resp: 155187

Ion Ratio Lower Upper

75 100

53 0.0 82.7 124.1#

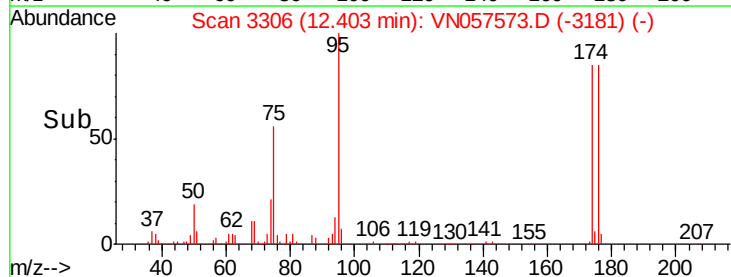
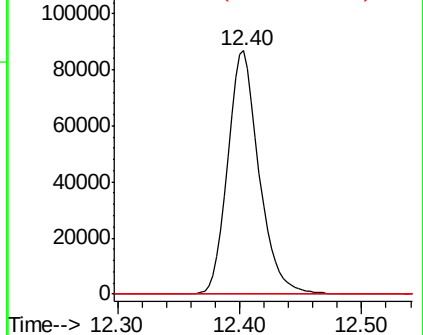
89 0.0 35.8 53.8#

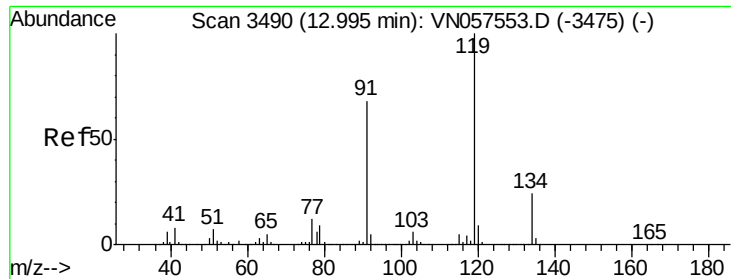


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

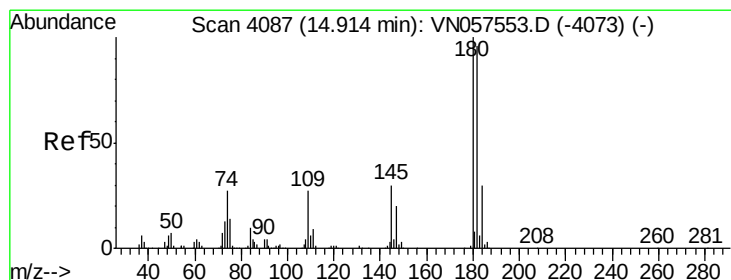
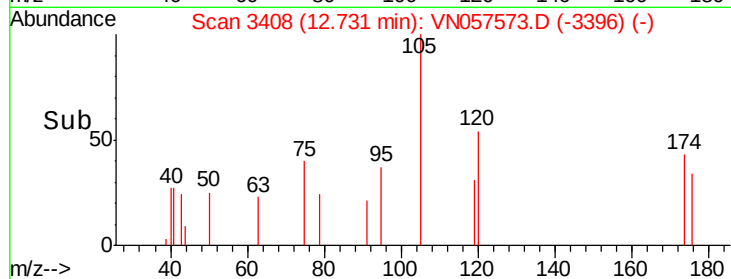
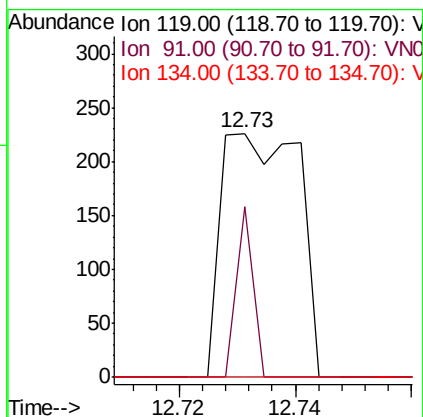
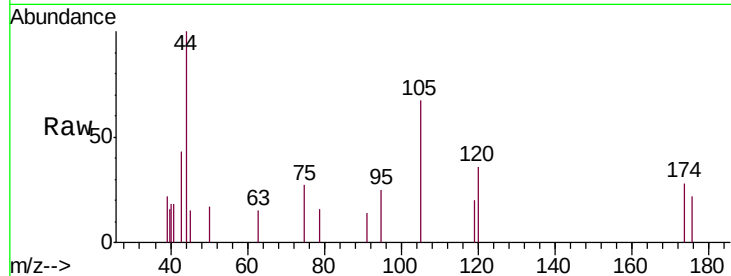




#83
 tert-Butylbenzene
 Concen: Below Cal
 RT: 12.73 min Scan# 3408
 Delta R.T. -0.26 min
 Lab File: VN057573.D
 Acq: 30 Aug 2019 1:32

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
119	100		
91	14.4	37.0	111.0#
134	0.0	12.2	36.6#



#93
 1,2,4-Trichlorobenzene
 Concen: 3.804 ug/l
 RT: 14.92 min Scan# 4089
 Delta R.T. 0.01 min
 Lab File: VN057573.D
 Acq: 30 Aug 2019 1:32

Tgt Ion	Ratio	Lower	Upper
180	100		
182	0.0	46.7	140.1#
145	0.0	15.6	46.8#

