

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082919\
 Data File : VN057567.D
 Acq On : 29 Aug 2019 22:59
 Operator : JC/SP
 Sample : K4528-37
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 30 12:10:35 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	587528	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	931047	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	844579	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	236478	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	355256	38.45	ug/l	0.00
Spiked Amount			Recovery	=	76.90%	
35) Dibromofluoromethane	7.58	113	281960	34.89	ug/l	0.00
Spiked Amount			Recovery	=	69.78%	
50) Toluene-d8	10.08	98	1180508	39.97	ug/l	0.00
Spiked Amount			Recovery	=	79.94%	
62) 4-Bromofluorobenzene	12.40	95	324850	32.50	ug/l	0.00
Spiked Amount			Recovery	=	65.00%	

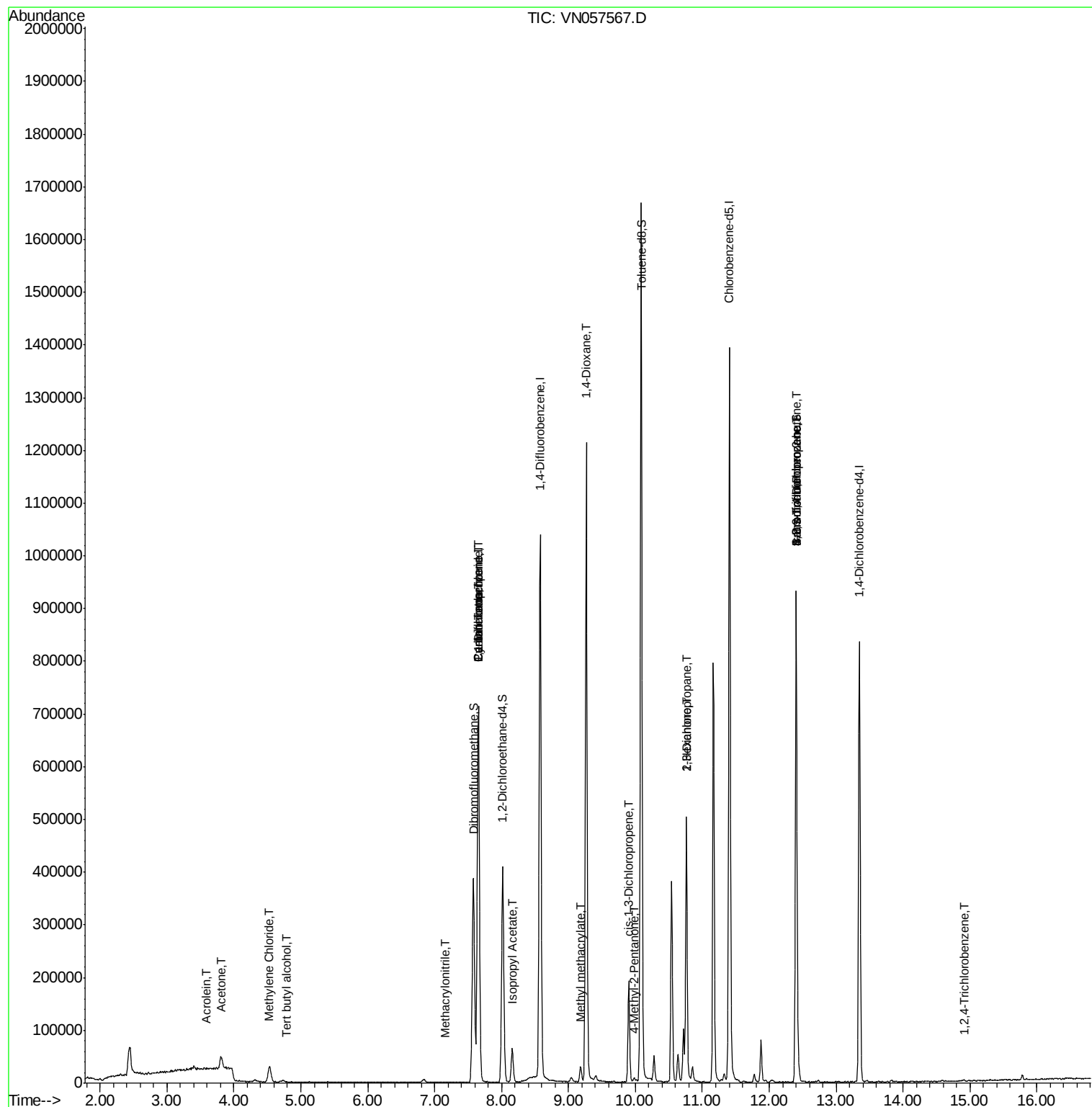
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.80	59	195	0.206	ug/l #	70
13) Acrolein	3.59	56	449	0.553	ug/l	86
16) Acetone	3.81	43	34290	8.821	ug/l	94
18) Methyl Acetate	4.32	43	6873	Below Cal		96
20) Methylene Chloride	4.53	84	22686	3.150	ug/l #	79
31) Cyclohexane	7.65	56	12951	1.159	ug/l #	30
36) 1,1-Dichloropropene	7.65	75	43080	4.277	ug/l #	52
38) Carbon Tetrachloride	7.65	117	55446	4.708	ug/l #	16
41) Methacrylonitrile	7.15	41	192	1.328	ug/l #	17
43) Isopropyl Acetate	8.16	43	74887	6.012	ug/l #	95
48) Methyl methacrylate	9.18	41	4769	0.811	ug/l #	15
49) 1,4-Dioxane	9.26	88	149	1.388	ug/l #	1
51) 4-Methyl-2-Pentanone	9.98	43	5622	0.845	ug/l	92
54) cis-1,3-Dichloropropene	9.90	75	36835	3.020	ug/l #	60
57) 1,3-Dichloropropane	10.76	76	6175	0.503	ug/l #	43
59) 2-Hexanone	10.76	43	69761	15.179	ug/l #	59
71) Bromoform	12.40	173	2995	0.537	ug/l #	1
73) Isopropylbenzene	12.24	105	133	Below Cal	#	50
74) N-amyl acetate	12.03	43	2545	Below Cal	#	53
75) 1,1,2,2-Tetrachloroethane	12.39	83	152	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	179078	40.546	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	179078	113.867	ug/l #	8
83) tert-Butylbenzene	12.99	119	33	Below Cal	#	1
93) 1,2,4-Trichlorobenzene	14.91	180	525	3.931	ug/l	88

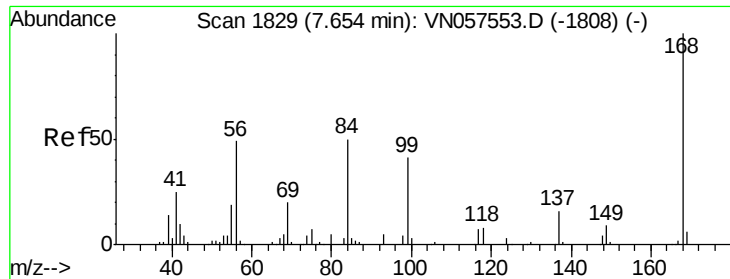
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N082919W.M
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: VN057567.D

Acq: 29 Aug 2019 22:59

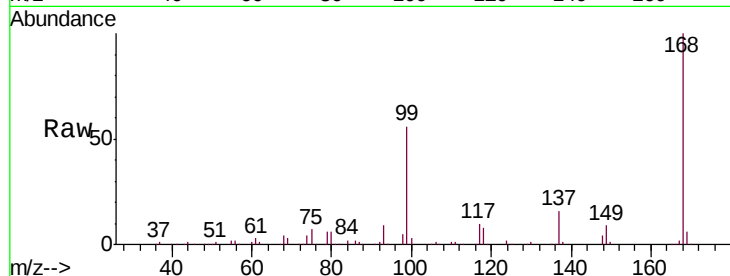
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 587528

Ion Ratio Lower Upper

168 100

99 56.1 50.6 76.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.65

250000

200000

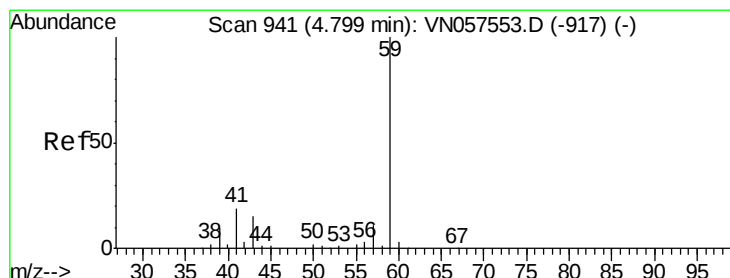
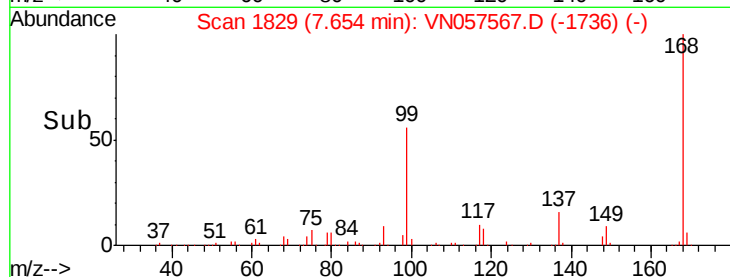
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#11

Tert butyl alcohol

Concen: 0.206 ug/l

RT: 4.80 min Scan# 940

Delta R.T. -0.00 min

Lab File: VN057567.D

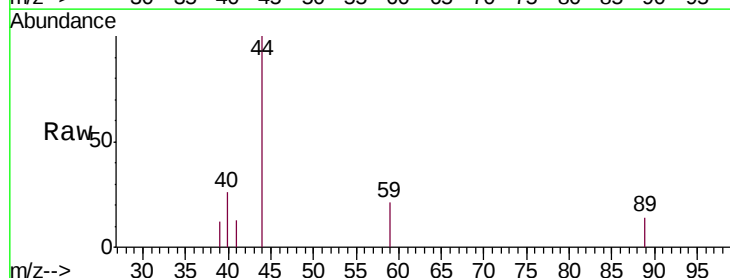
Acq: 29 Aug 2019 22:59

Tgt Ion: 59 Resp: 195

Ion Ratio Lower Upper

59 100

57 0.0 9.1 13.7#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.80

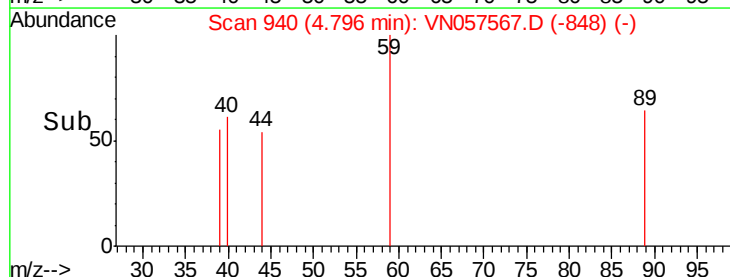
300

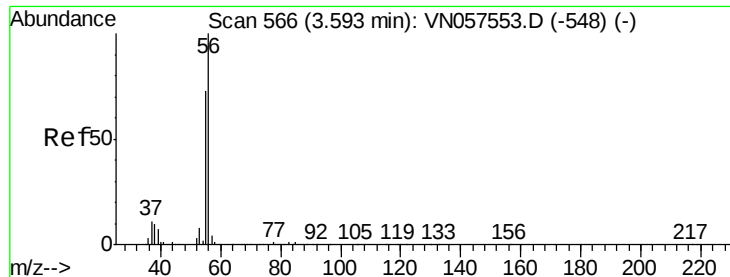
200

100

0

Time--> 4.78 4.79 4.80 4.81

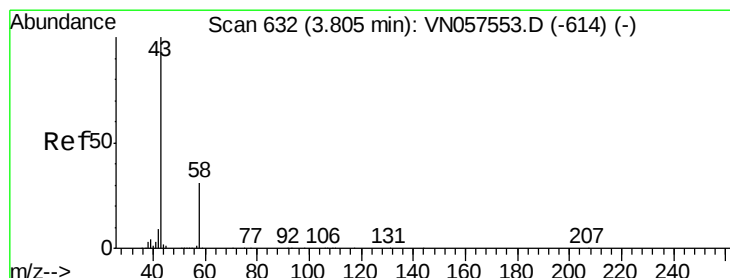
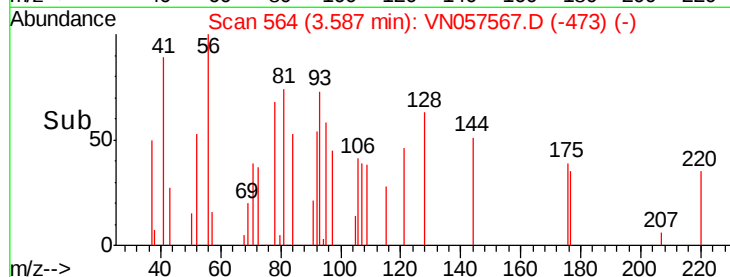
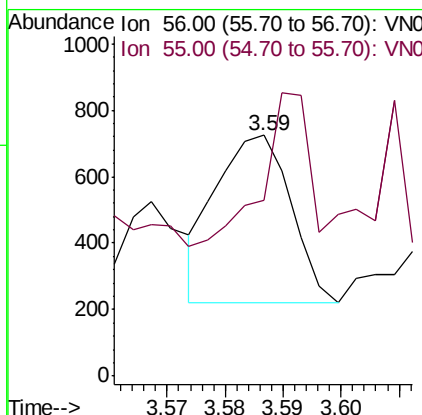
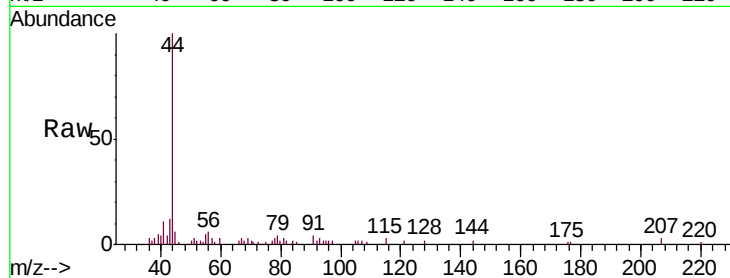




#13
Acrolein
Concen: 0.553 ug/l
RT: 3.59 min Scan# 564
Delta R.T. -0.01 min
Lab File: VN057567.D
Acq: 29 Aug 2019 22:59

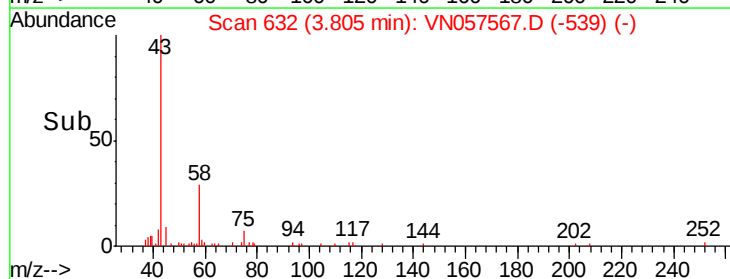
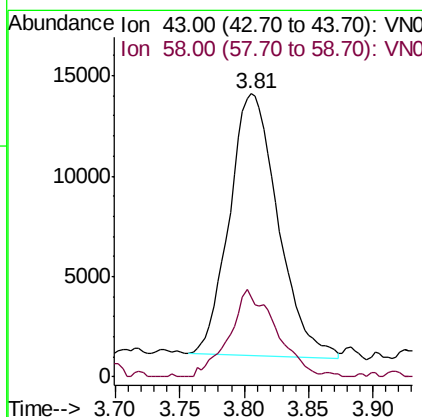
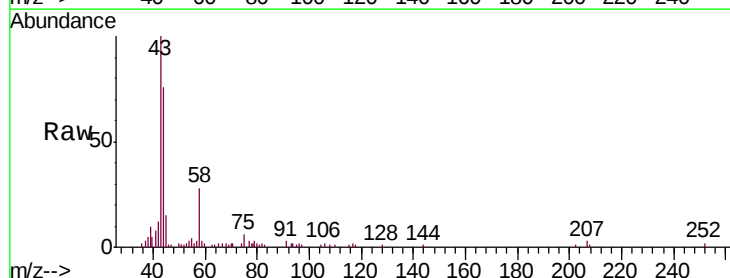
Instrument :
MSVOA_N
ClientSampled :

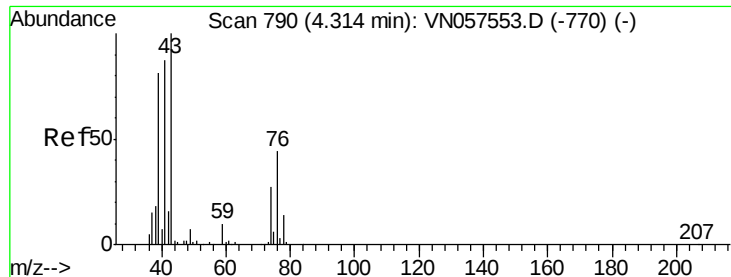
Tot Ion: 56 Resp: 449
Ion Ratio Lower Upper
56 100
55 61.5 59.0 88.4



#16
Acetone
Concen: 8.821 ug/l
RT: 3.81 min Scan# 632
Delta R.T. -0.00 min
Lab File: VN057567.D
Acq: 29 Aug 2019 22:59

Tgt Ion: 43 Resp: 34290
Ion Ratio Lower Upper
43 100
58 30.9 22.1 33.1

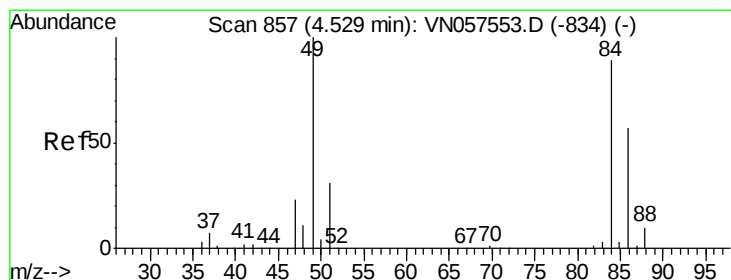
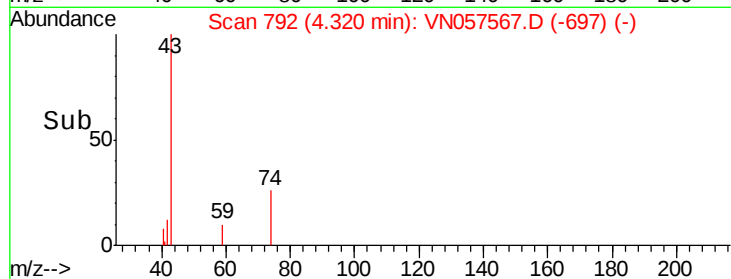
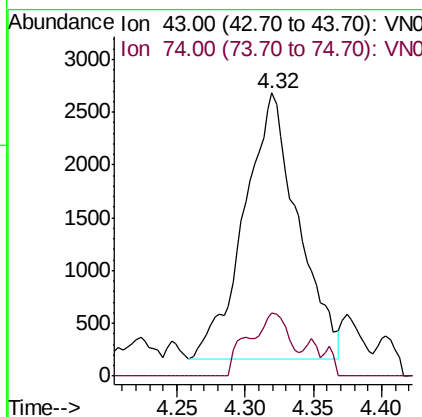
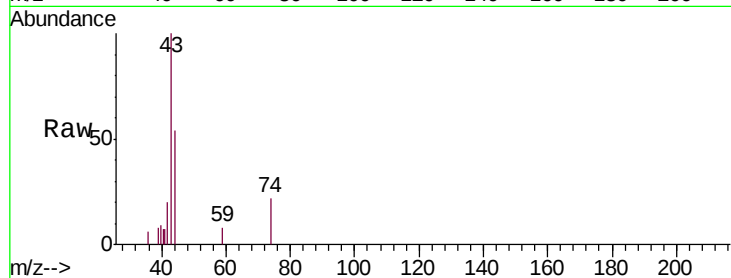




#18
Methyl Acetate
Concen: Below Cal
RT: 4.32 min Scan# 792
Delta R.T. 0.01 min
Lab File: VN057567.D
Acq: 29 Aug 2019 22:59

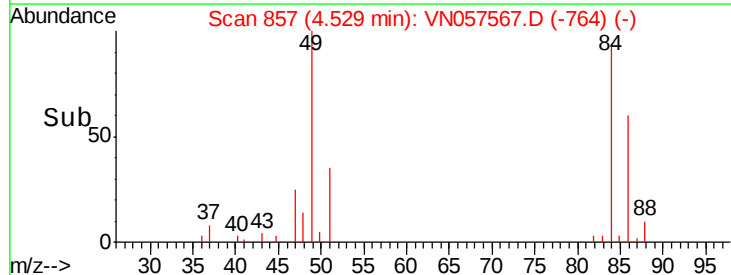
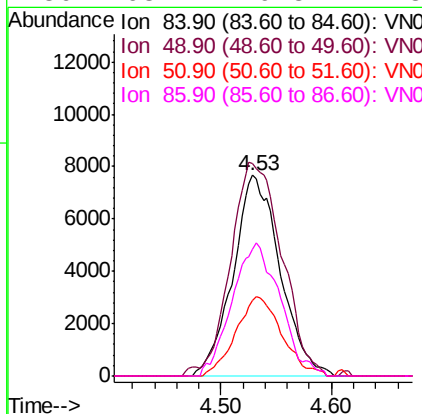
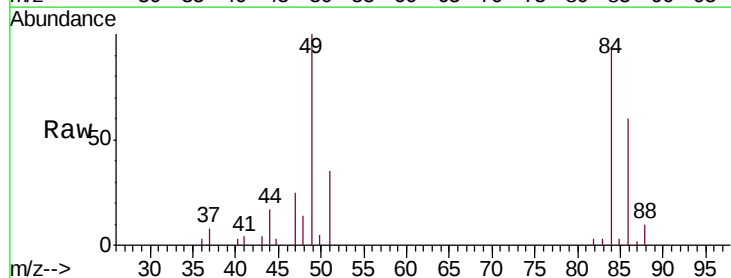
Instrument :
MSVOA_N
ClientSampleId :

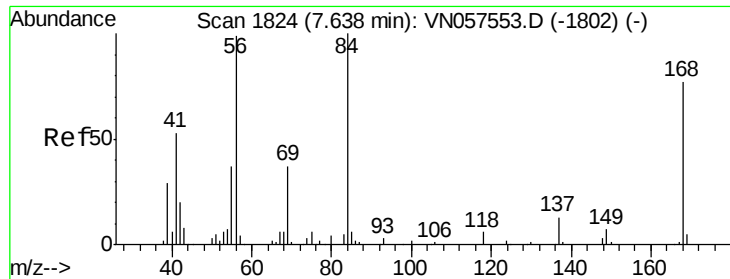
Tot Ion: 43 Resp: 6873
Ion Ratio Lower Upper
43 100
74 18.1 15.9 23.9



#20
Methylene Chloride
Concen: 3.150 ug/l
RT: 4.53 min Scan# 857
Delta R.T. -0.00 min
Lab File: VN057567.D
Acq: 29 Aug 2019 22:59

Tgt Ion: 84 Resp: 22686
Ion Ratio Lower Upper
84 100
49 106.1 117.0 175.4#
51 37.5 35.5 53.3
86 63.2 49.8 74.8

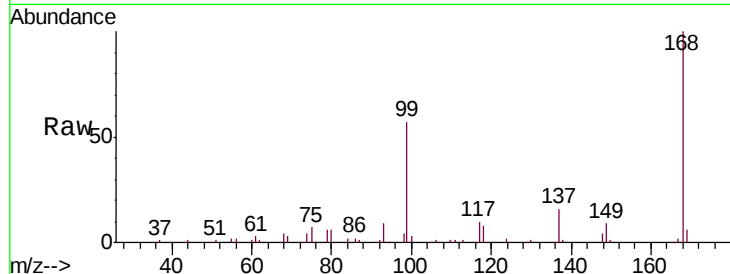




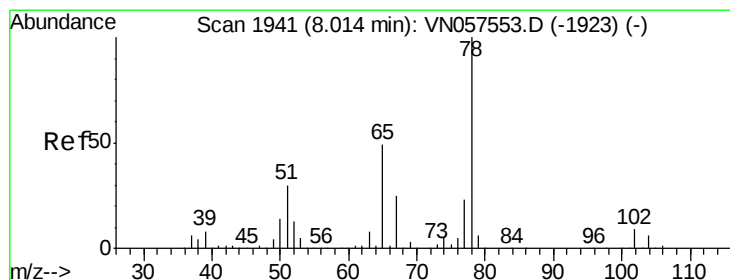
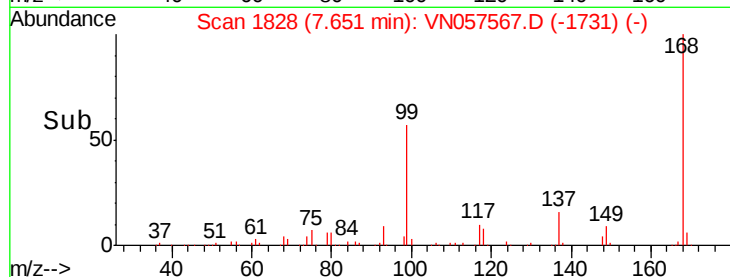
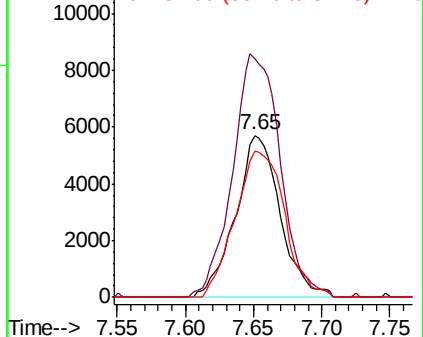
#31
Cyclohexane
Concen: 1.159 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. 0.01 min
Lab File: VN057567.D
Acq: 29 Aug 2019 22:59

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 12951
Ion Ratio Lower Upper
56 100
69 147.5 25.0 37.6#
84 90.5 62.5 93.7

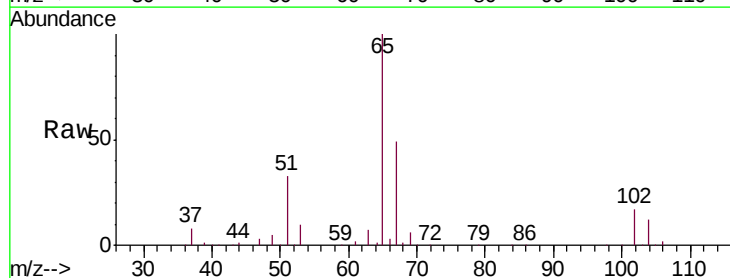


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

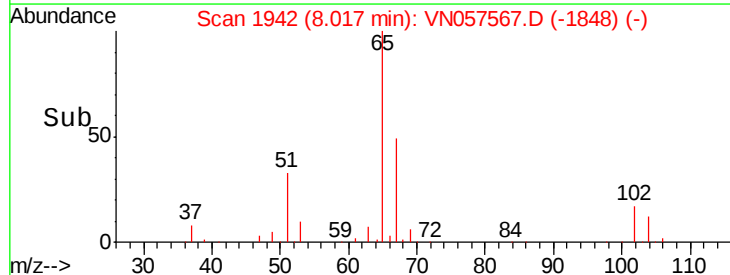
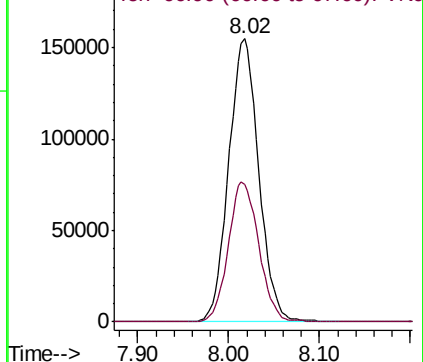


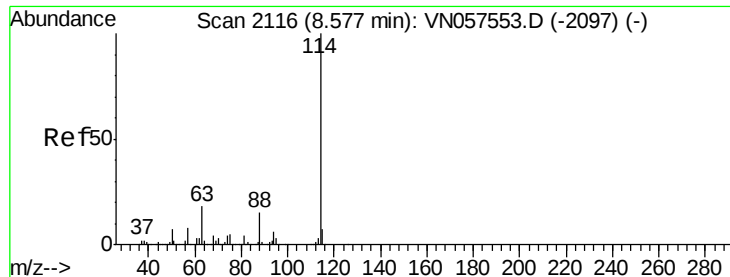
#33
1,2-Dichloroethane-d4
Concen: 38.452 ug/l
RT: 8.02 min Scan# 1942
Delta R.T. 0.00 min
Lab File: VN057567.D
Acq: 29 Aug 2019 22:59

Tgt Ion: 65 Resp: 355256
Ion Ratio Lower Upper
65 100
67 50.3 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

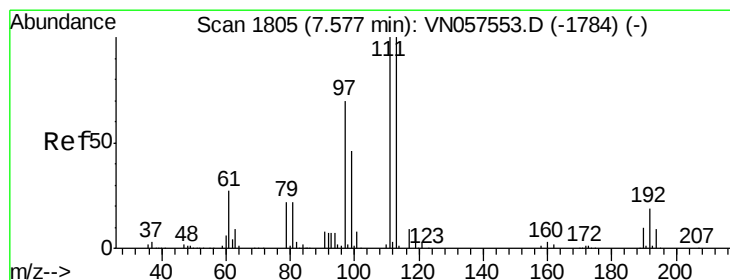
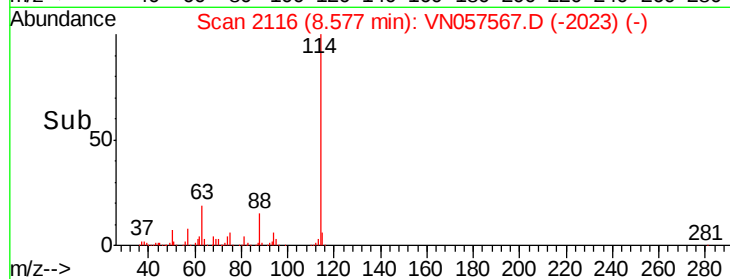
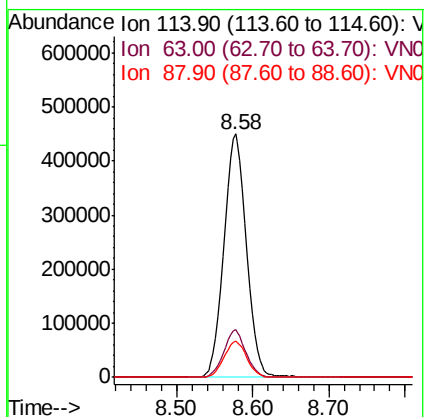
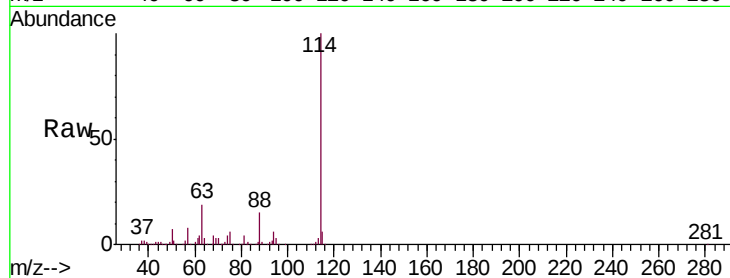




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. -0.00 min
 Lab File: VN057567.D
 Acq: 29 Aug 2019 22:59

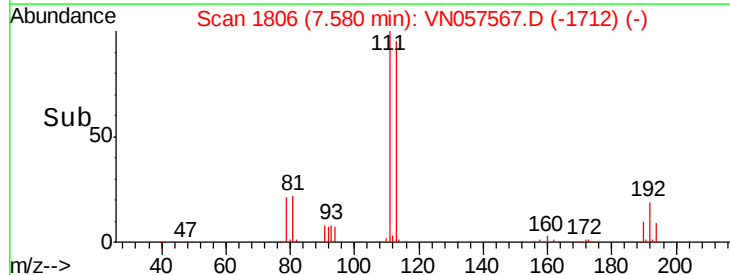
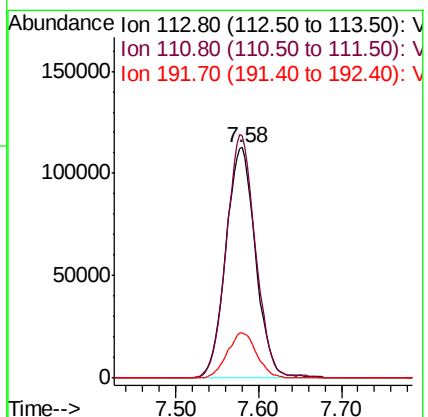
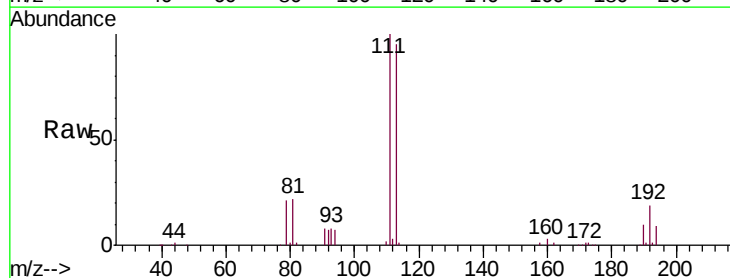
Instrument :
 MSVOA_N
 ClientSampleId :

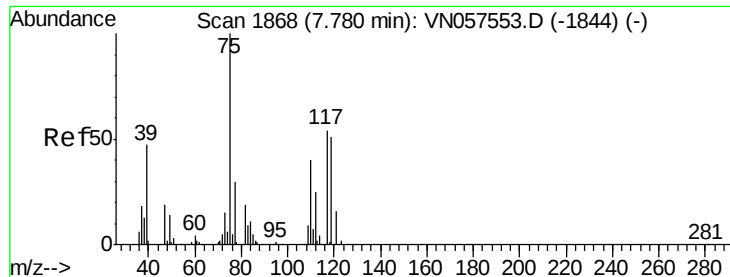
Tot Ion:114 Resp: 931047
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 50.2
 88 14.9 0.0 34.6



#35
 Dibromofluoromethane
 Concen: 34.887 ug/l
 RT: 7.58 min Scan# 1806
 Delta R.T. 0.00 min
 Lab File: VN057567.D
 Acq: 29 Aug 2019 22:59

Tgt Ion:113 Resp: 281960
 Ion Ratio Lower Upper
 113 100
 111 102.7 83.8 125.6
 192 19.4 13.5 20.3

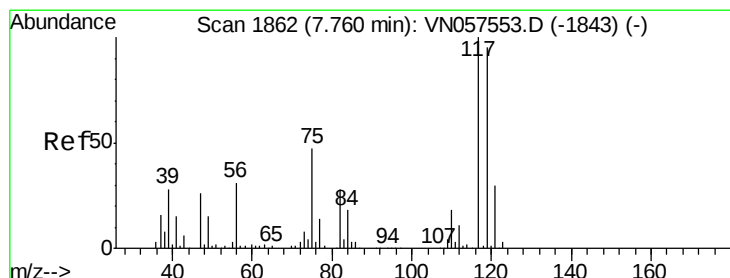
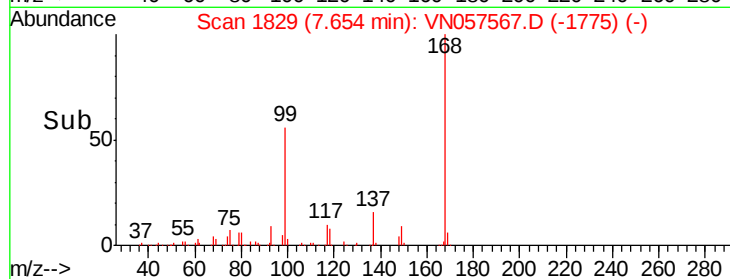
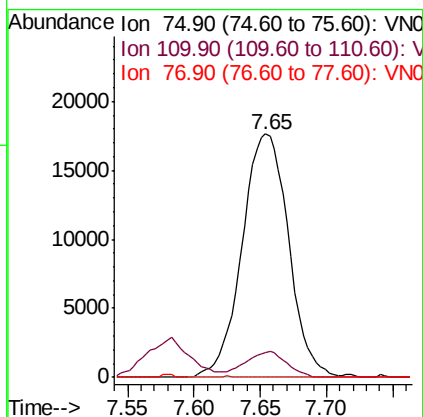
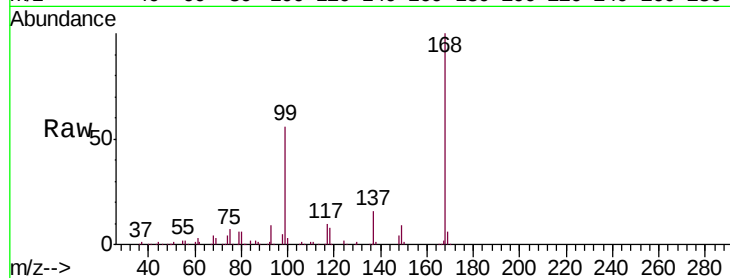




#36
 1,1-Dichloropropene
 Concen: 4.277 ug/l
 RT: 7.65 min Scan# 1829
 Delta R.T. -0.13 min
 Lab File: VN057567.D
 Acq: 29 Aug 2019 22:59

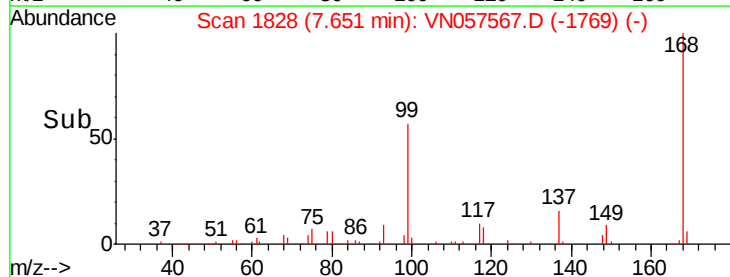
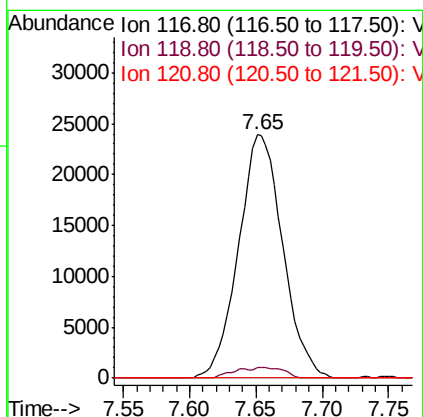
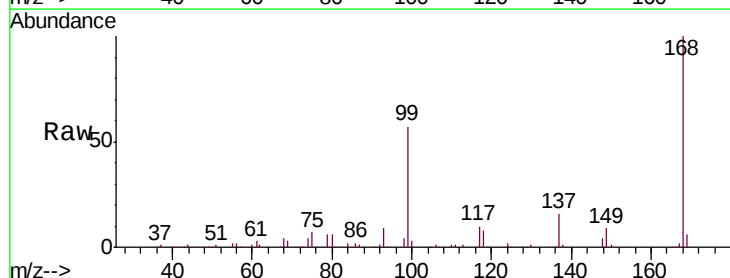
Instrument :
 MSVOA_N
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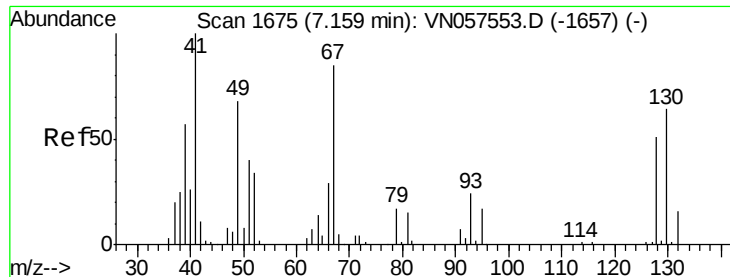
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.5	16.1	48.3#
77	0.0	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 4.708 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.11 min
 Lab File: VN057567.D
 Acq: 29 Aug 2019 22:59

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.2	76.2	114.4#
121	0.0	23.8	35.6#

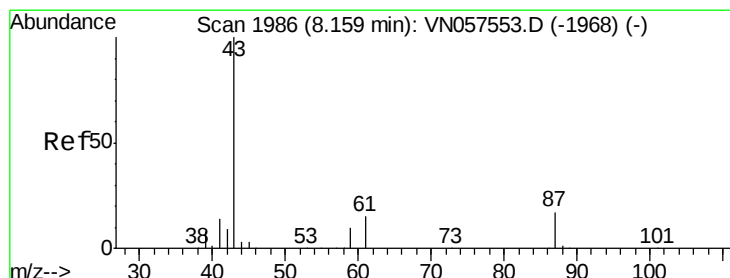
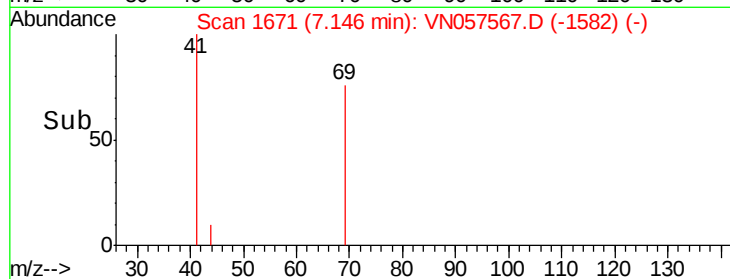
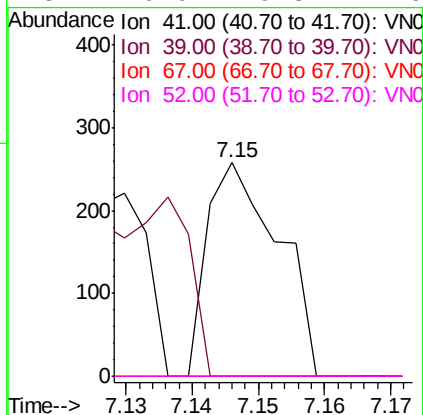
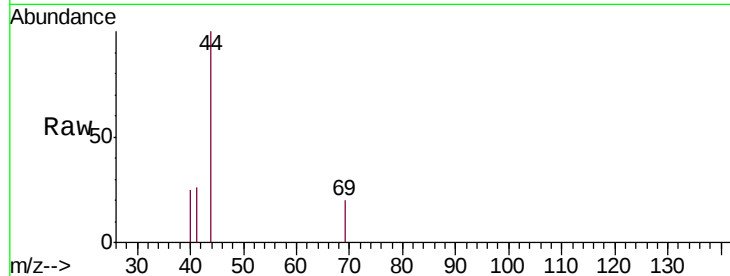




#41
Methacrylonitrile
Concen: 1.328 ug/l
RT: 7.15 min Scan# 1671
Delta R.T. -0.01 min
Lab File: VN057567.D
Acq: 29 Aug 2019 22:59

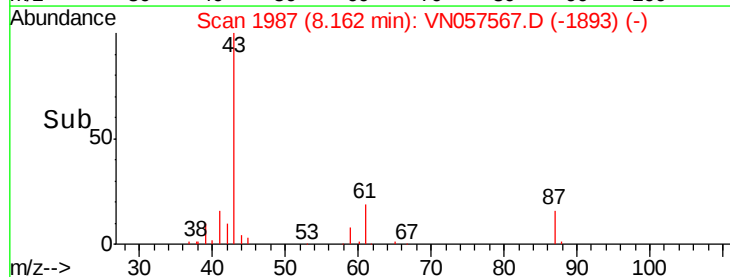
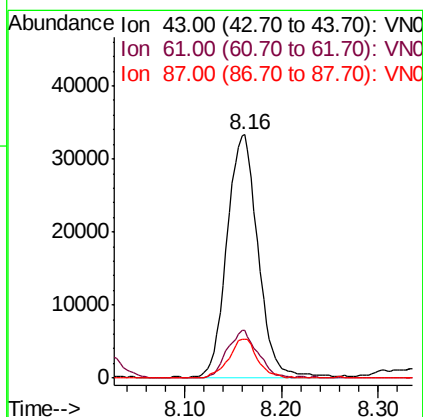
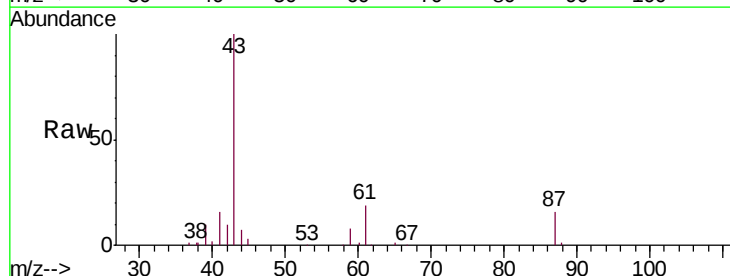
Instrument :
MSVOA_N
ClientSampleId :

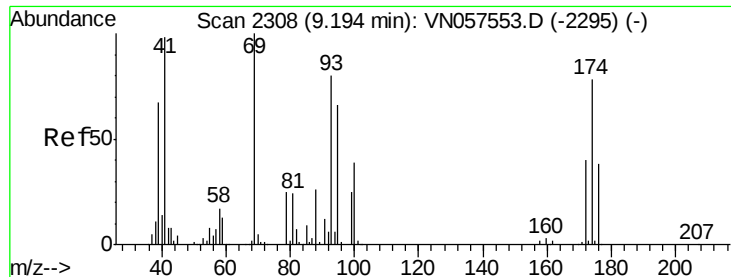
Tot Ion: 41 Resp: 192
Ion Ratio Lower Upper
41 100
39 0.0 53.6 80.4#
67 0.0 65.4 98.2#
52 0.0 29.8 44.6#



#43
Isopropyl Acetate
Concen: 6.012 ug/l
RT: 8.16 min Scan# 1987
Delta R.T. 0.00 min
Lab File: VN057567.D
Acq: 29 Aug 2019 22:59

Tgt Ion: 43 Resp: 74887
Ion Ratio Lower Upper
43 100
61 18.9 14.5 21.7
87 14.6 8.6 12.8#

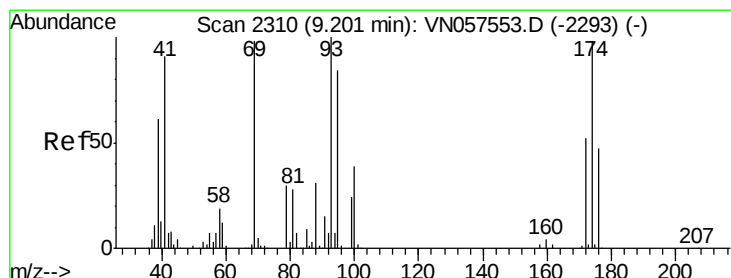
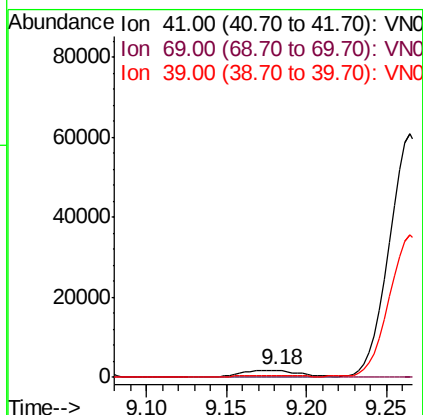
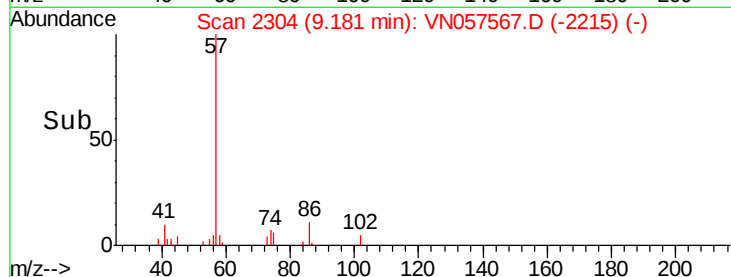
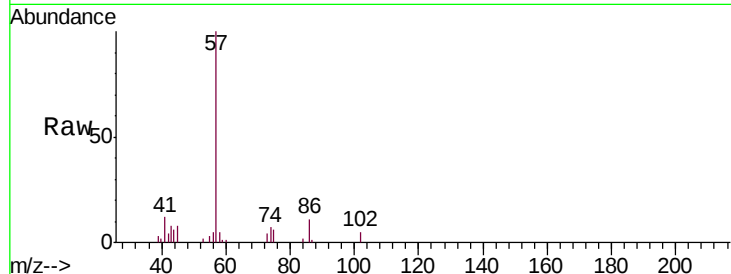




#48
Methyl methacrylate
Concen: 0.811 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.01 min
Lab File: VN057567.D
Acq: 29 Aug 2019 22:59

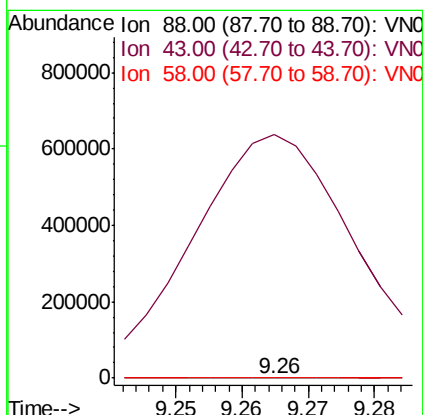
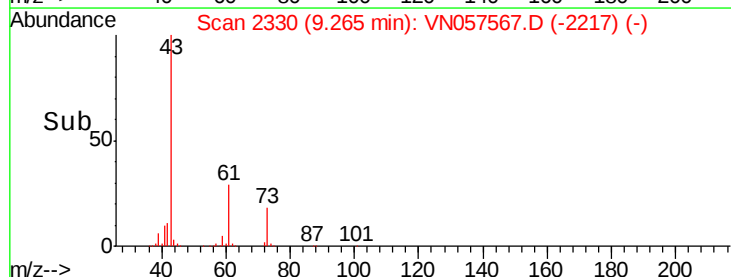
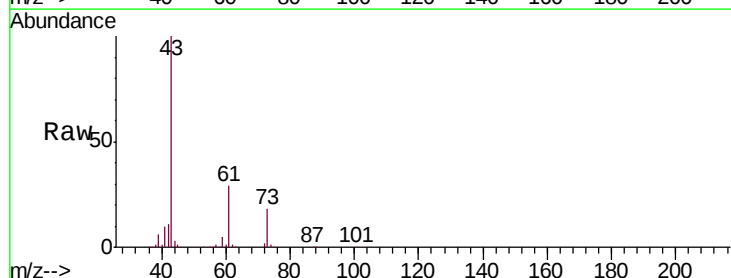
Instrument :
MSVOA_N
ClientSampled :

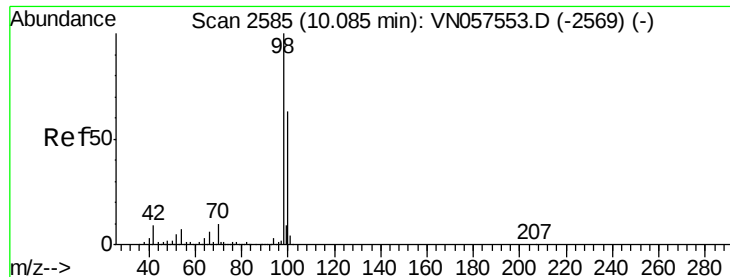
Tot Ion: 41 Resp: 4769
Ion Ratio Lower Upper
41 100
69 0.0 59.3 88.9#
39 0.0 50.6 75.8#



#49
1,4-Dioxane
Concen: 1.388 ug/l
RT: 9.26 min Scan# 2330
Delta R.T. 0.06 min
Lab File: VN057567.D
Acq: 29 Aug 2019 22:59

Tgt Ion: 88 Resp: 149
Ion Ratio Lower Upper
88 100
43 759923.5 31.0 46.6#
58 3376.5 64.5 96.7#





#50

Toluene-d8

Concen: 39.965 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN057567.D

Acq: 29 Aug 2019 22:59

Instrument :

MSVOA_N

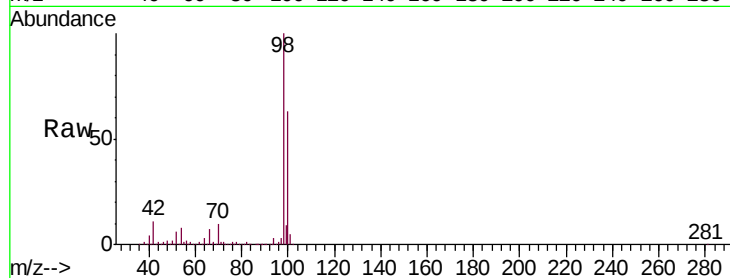
ClientSampleId :

Tot Ion: 98 Resp: 1180508

Ion Ratio Lower Upper

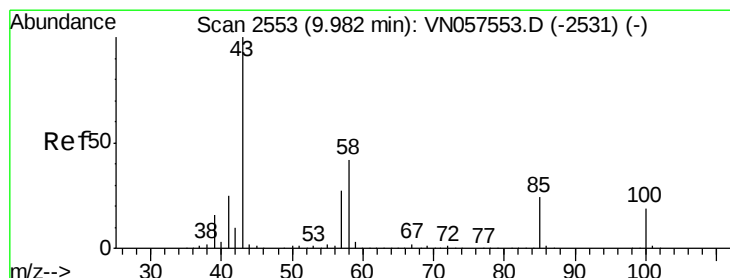
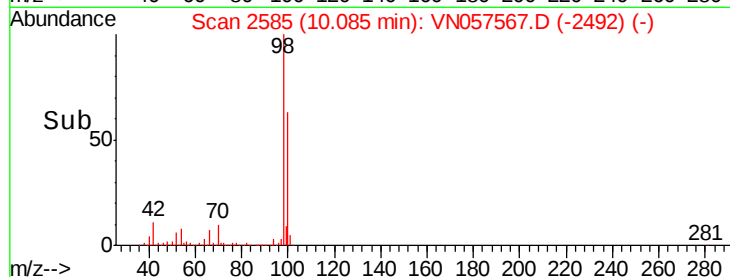
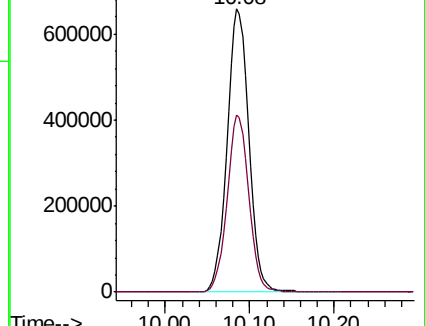
98 100

100 61.8 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: 0.845 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN057567.D

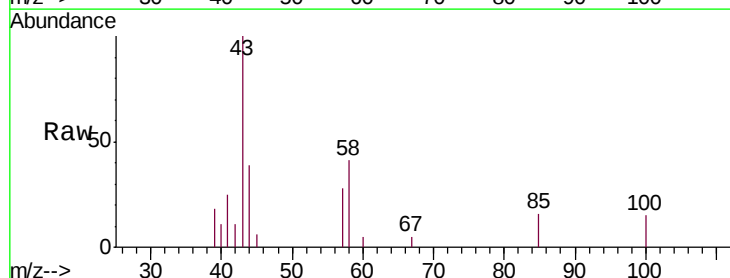
Acq: 29 Aug 2019 22:59

Tgt Ion: 43 Resp: 5622

Ion Ratio Lower Upper

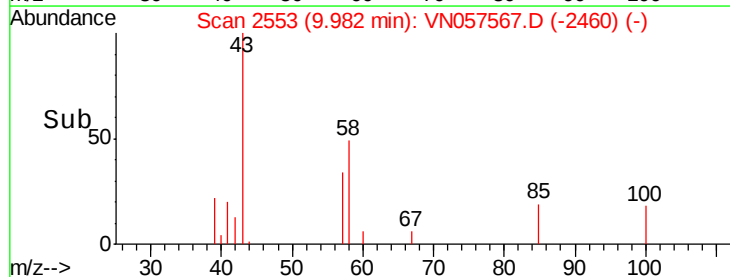
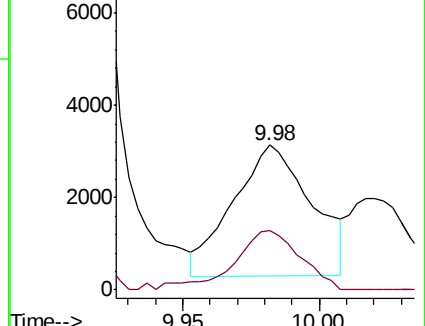
43 100

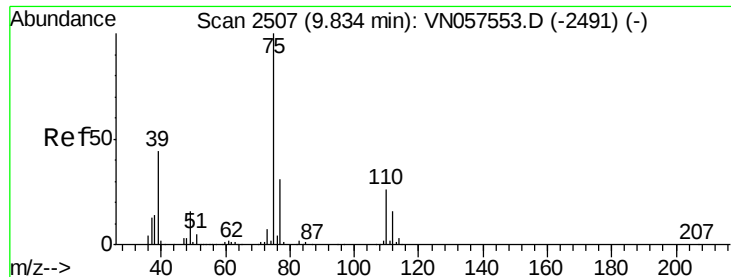
58 39.3 27.9 41.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



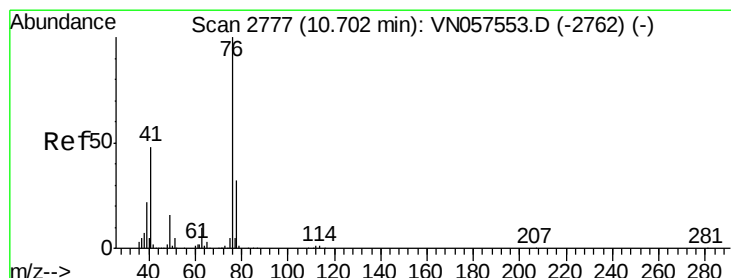
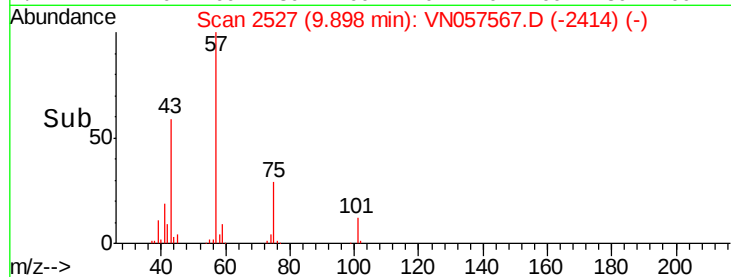
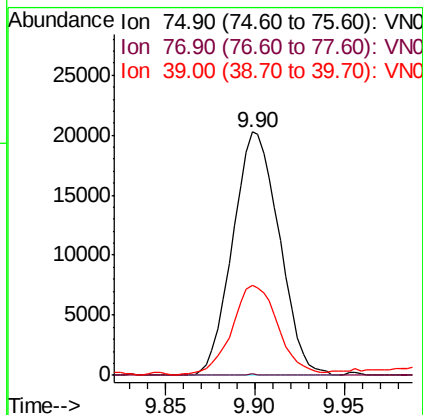
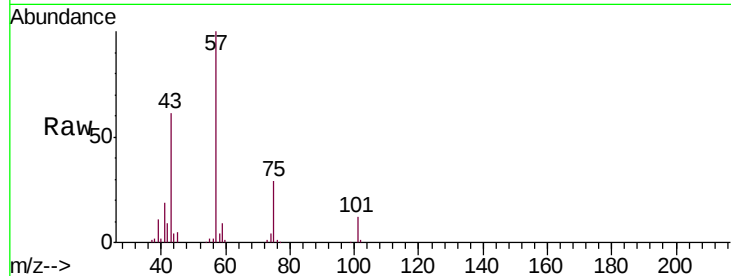


#54

cis-1,3-Dichloropropene
 Concen: 3.020 ug/l
 RT: 9.90 min Scan# 2527
 Delta R.T. 0.06 min
 Lab File: VN057567.D
 Acq: 29 Aug 2019 22:59

Instrument :
 MSVOA_N
 ClientSampled :

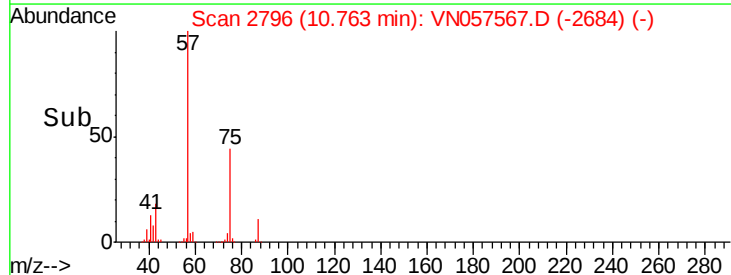
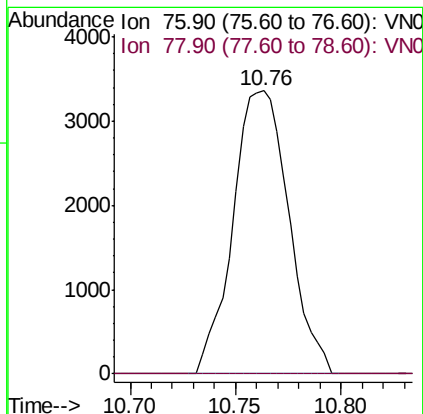
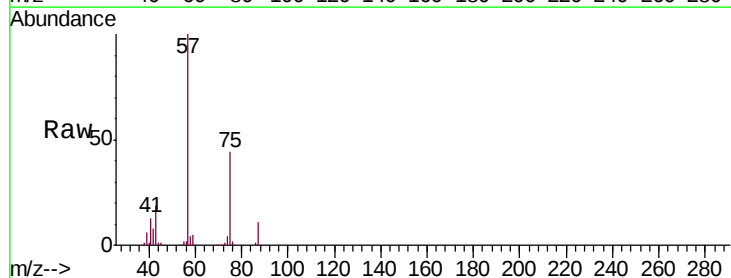
Tot Ion	Ratio	Lower	Upper
75	100		
77	0.8	25.0	37.6#
39	36.3	49.2	73.8#

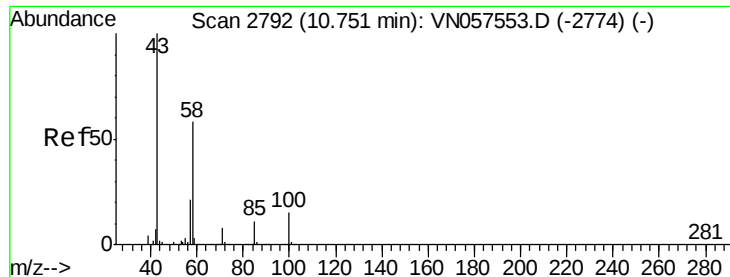


#57

1,3-Dichloropropane
 Concen: 0.503 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.06 min
 Lab File: VN057567.D
 Acq: 29 Aug 2019 22:59

Tgt Ion	Ratio	Lower	Upper
76	100		
78	0.0	25.5	38.3#

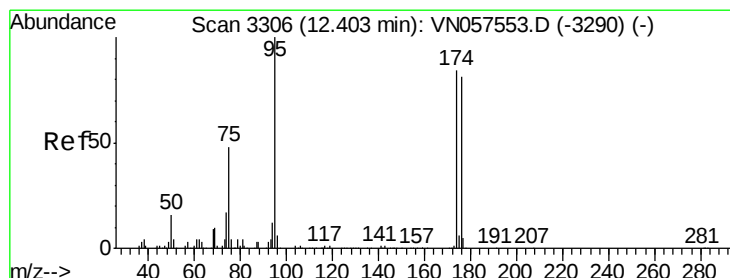
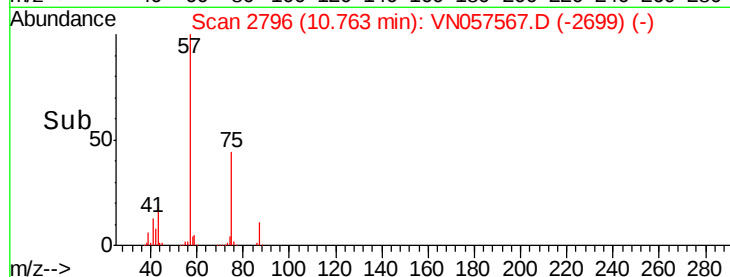
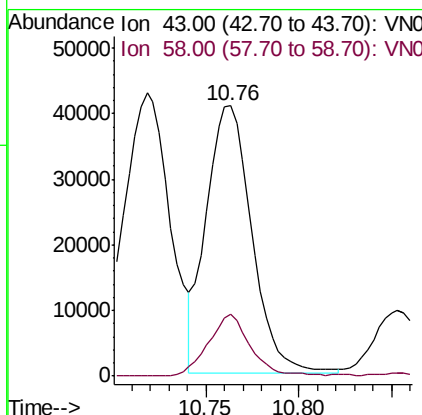
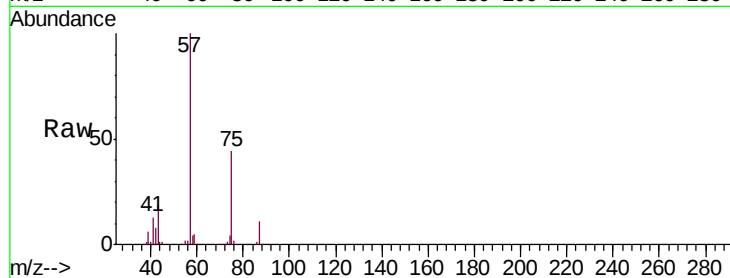




#59
2-Hexanone
Concen: 15.179 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN057567.D
Acq: 29 Aug 2019 22:59

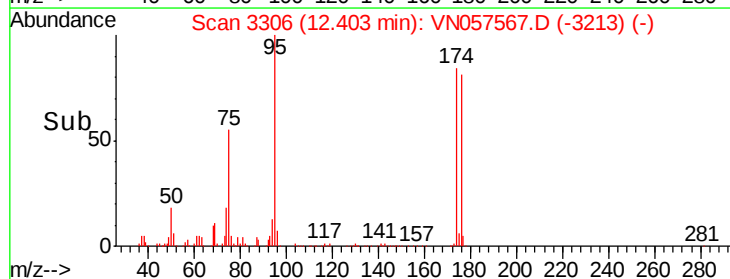
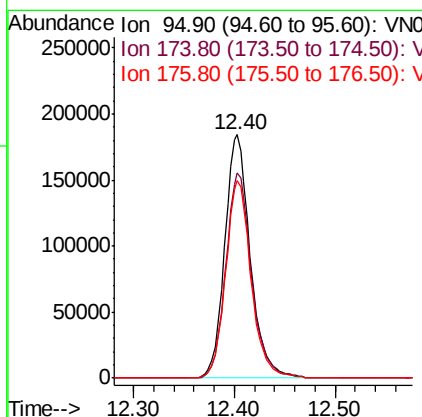
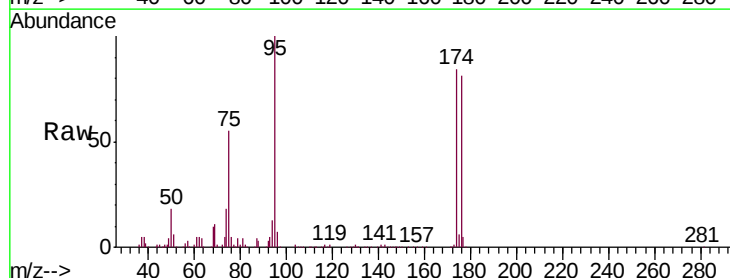
Instrument :
MSVOA_N
ClientSampled :

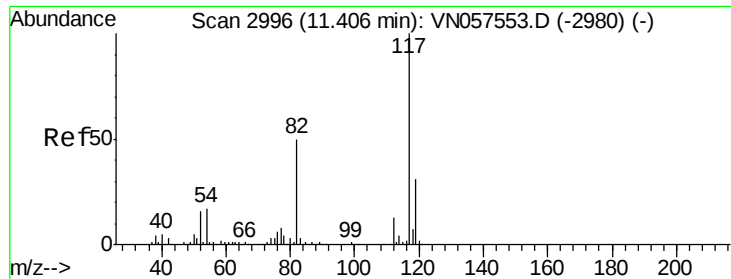
Tot Ion: 43 Resp: 69761
Ion Ratio Lower Upper
43 100
58 21.2 24.6 73.6#



#62
4-Bromofluorobenzene
Concen: 32.501 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. -0.00 min
Lab File: VN057567.D
Acq: 29 Aug 2019 22:59

Tgt Ion: 95 Resp: 324850
Ion Ratio Lower Upper
95 100
174 85.4 0.0 133.0
176 81.3 0.0 130.8

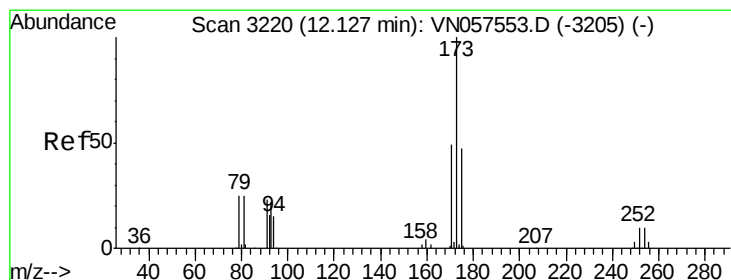
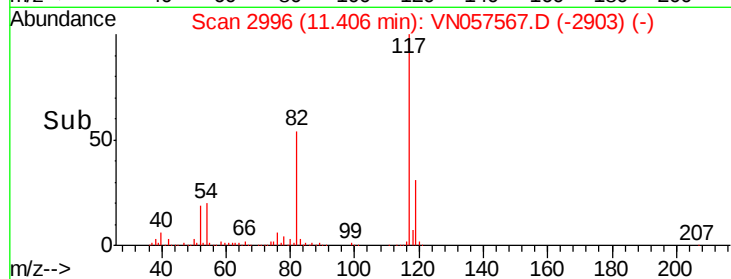
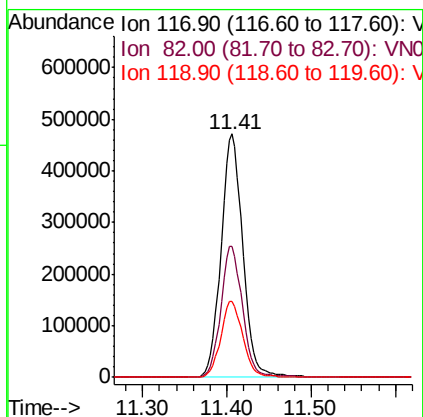
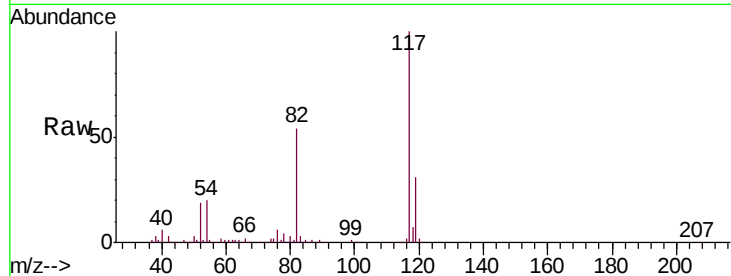




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN057567.D
Acq: 29 Aug 2019 22:59

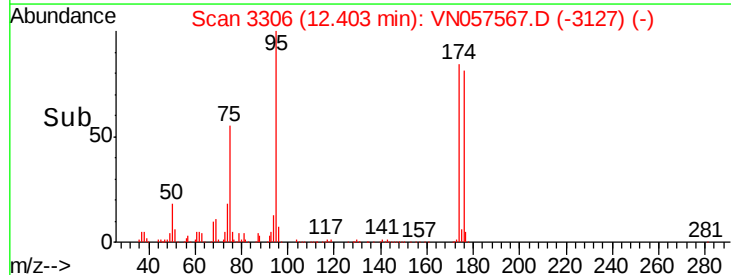
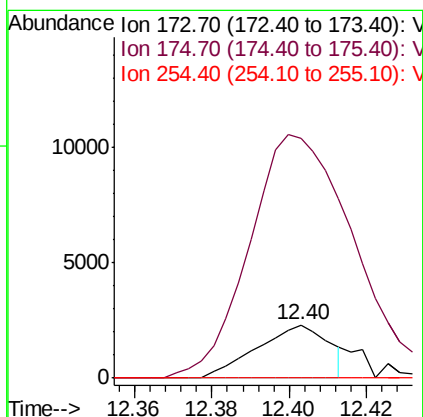
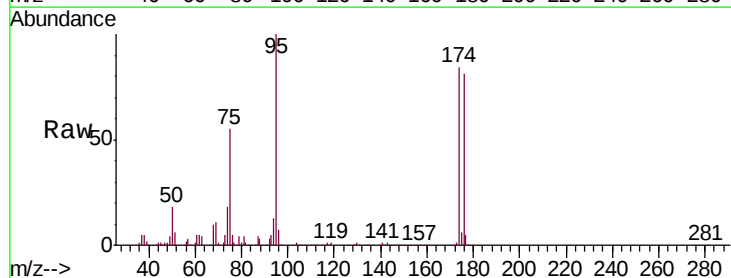
Instrument :
MSVOA_N
ClientSampleId :

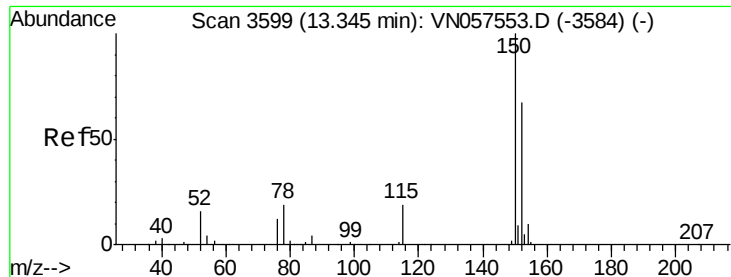
Tot Ion:117 Resp: 844579
Ion Ratio Lower Upper
117 100
82 53.9 50.6 75.8
119 31.2 24.6 36.8



#71
Bromoform
Concen: 0.537 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN057567.D
Acq: 29 Aug 2019 22:59

Tgt Ion:173 Resp: 2995
Ion Ratio Lower Upper
173 100
175 523.1 23.9 71.8#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN057567.D

Acq: 29 Aug 2019 22:59

Instrument :

MSVOA_N

ClientSampled :

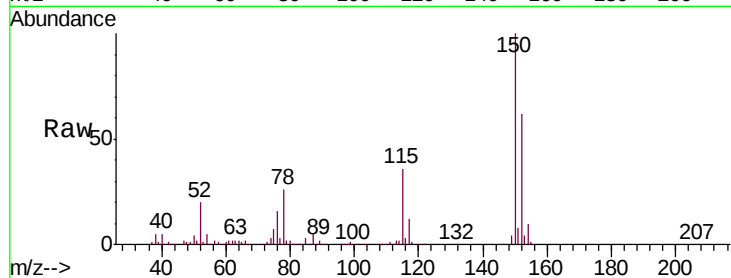
Tot Ion:152 Resp: 236478

Ion Ratio Lower Upper

152 100

115 58.0 32.0 96.0

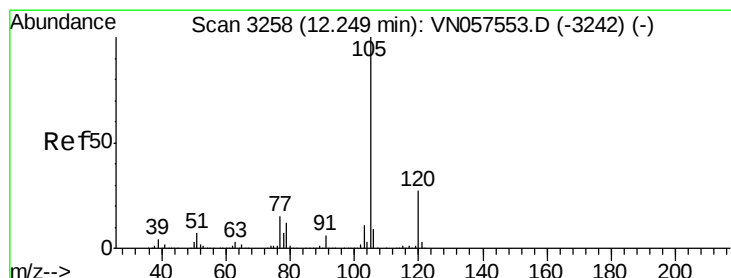
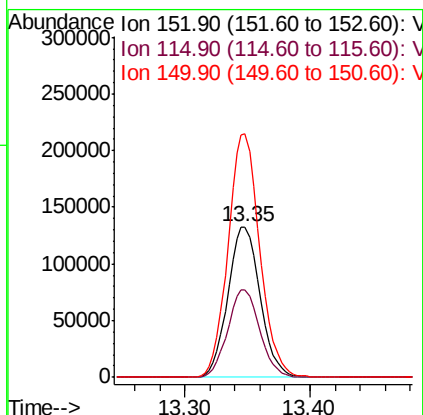
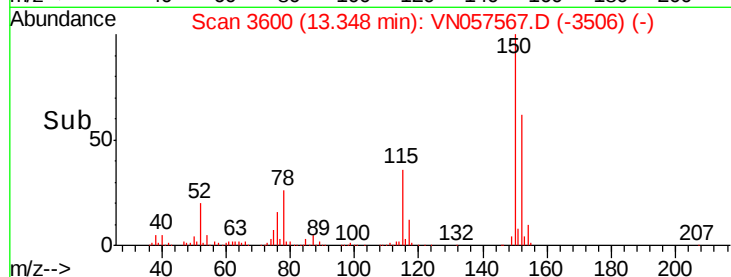
150 158.6 0.0 346.6



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: 12.24 min Scan# 3256

Delta R.T. -0.01 min

Lab File: VN057567.D

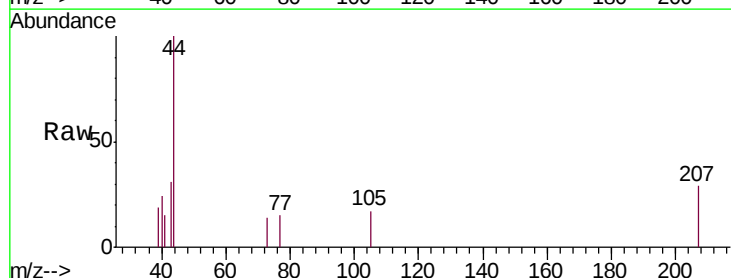
Acq: 29 Aug 2019 22:59

Tgt Ion:105 Resp: 133

Ion Ratio Lower Upper

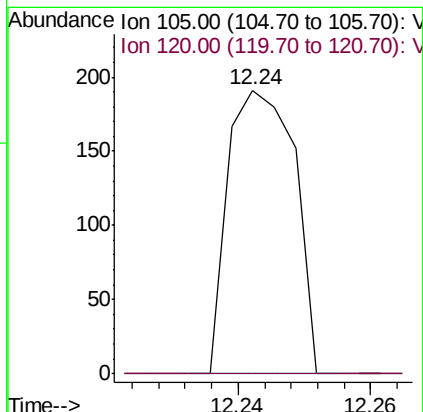
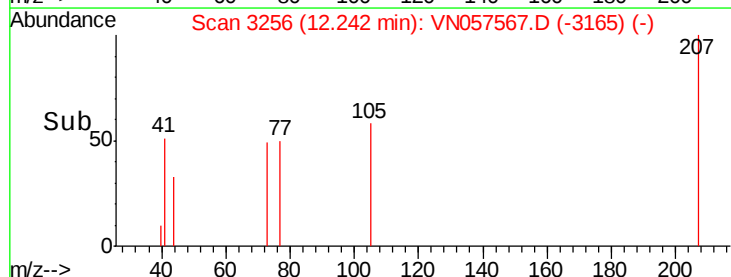
105 100

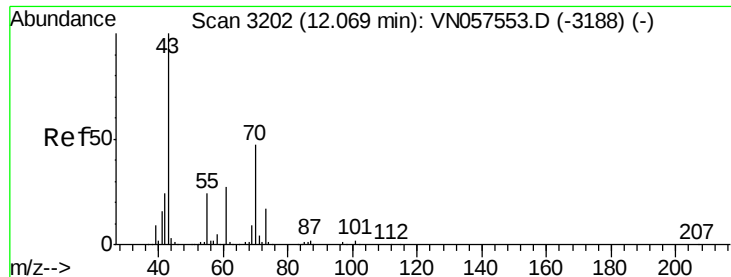
120 0.0 12.7 38.0#



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: 12.03 min Scan# 3190

Delta R.T. -0.04 min

Lab File: VN057567.D

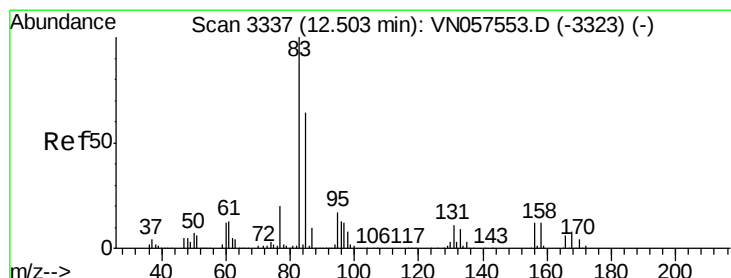
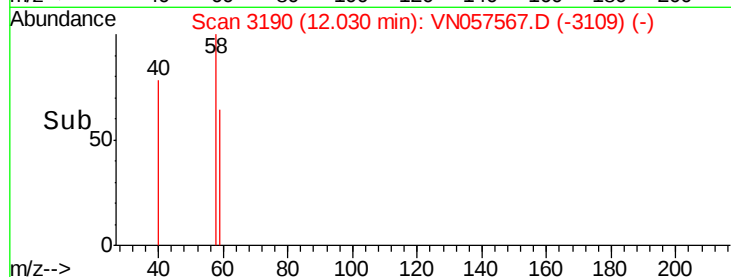
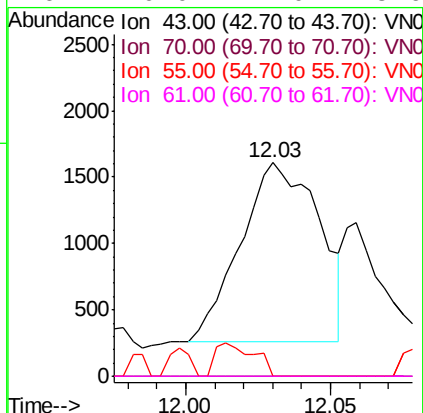
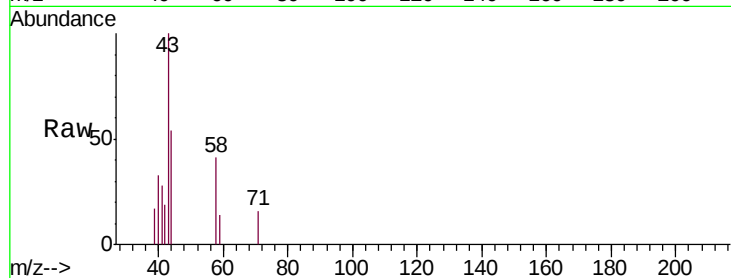
Acq: 29 Aug 2019 22:59

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion:	43	Resp:	2545
Ion	Ratio	Lower	Upper
43	100		
70	0.0	27.8	41.6#
55	9.0	17.0	25.4#
61	0.0	17.0	25.6#



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

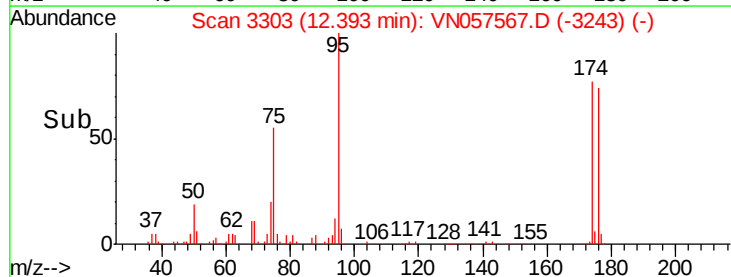
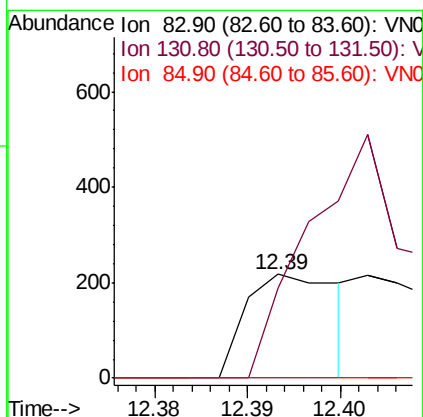
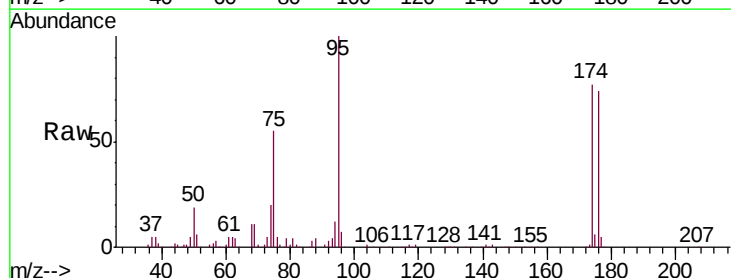
RT: 12.39 min Scan# 3303

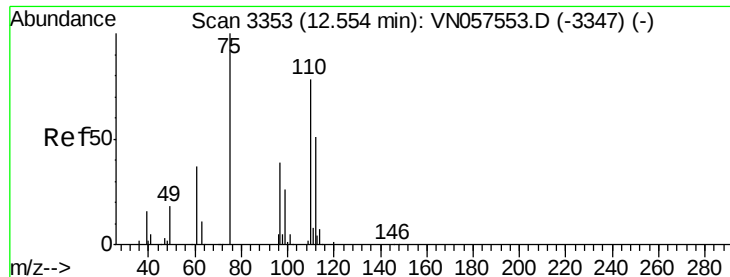
Delta R.T. -0.11 min

Lab File: VN057567.D

Acq: 29 Aug 2019 22:59

Tgt Ion:	83	Resp:	152
Ion	Ratio	Lower	Upper
83	100		
131	295.4	4.3	13.1#
85	0.0	32.3	96.8#





#76

1,2,3-Trichloropropane

Concen: 40.546 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057567.D

Acq: 29 Aug 2019 22:59

Instrument :

MSVOA_N

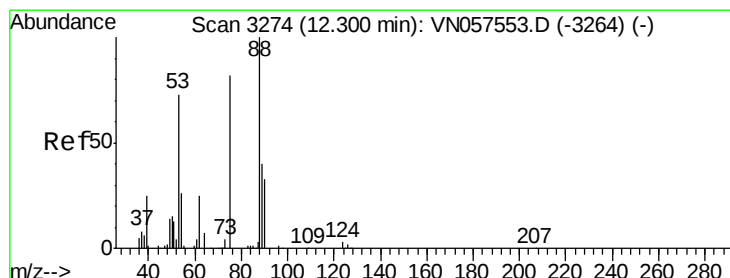
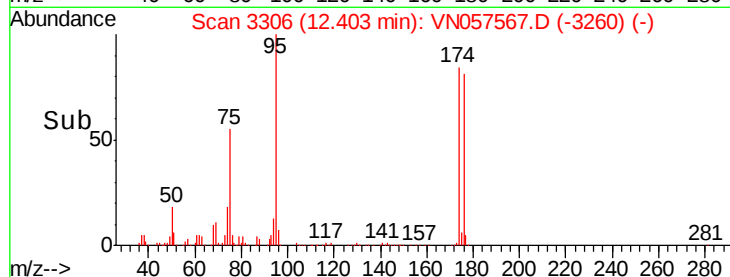
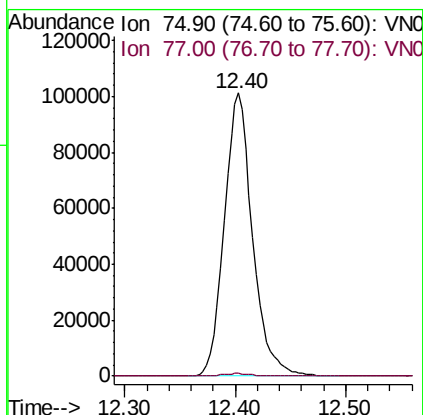
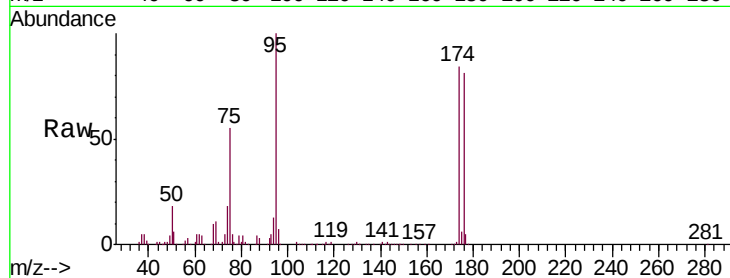
ClientSampled :

Tot Ion: 75 Resp: 179078

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 113.867 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN057567.D

Acq: 29 Aug 2019 22:59

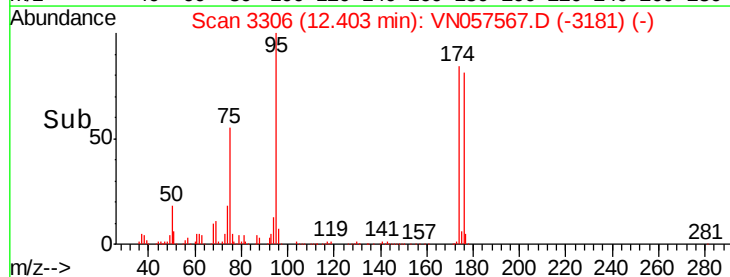
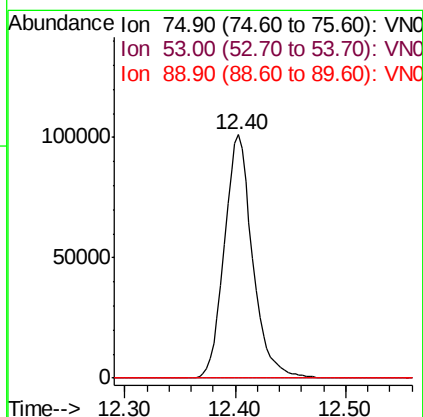
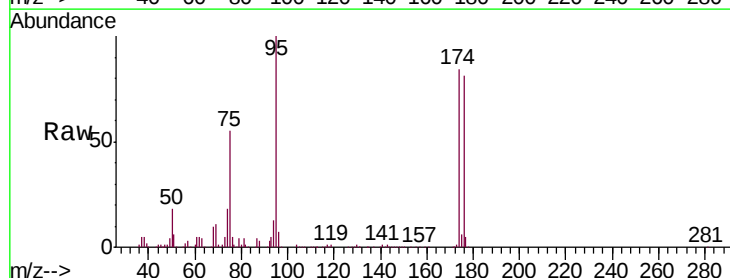
Tgt Ion: 75 Resp: 179078

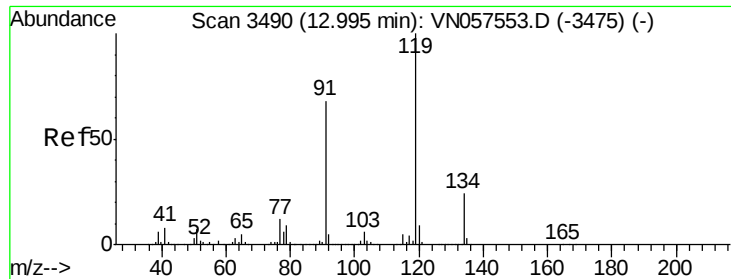
Ion Ratio Lower Upper

75 100

53 0.0 82.7 124.1#

89 0.0 35.8 53.8#





#83

tert-Butylbenzene

Concen: Below Cal

RT: 12.99 min Scan# 3490

Delta R.T. 0.00 min

Lab File: VN057567.D

Acq: 29 Aug 2019 22:59

Instrument :

MSVOA_N

ClientSampled :

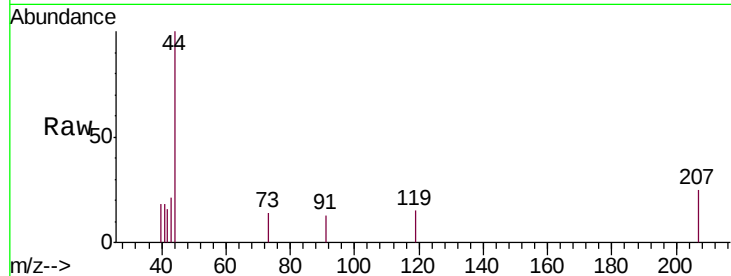
Tot Ion:119 Resp: 33

Ion Ratio Lower Upper

119 100

91 181.8 37.0 111.0#

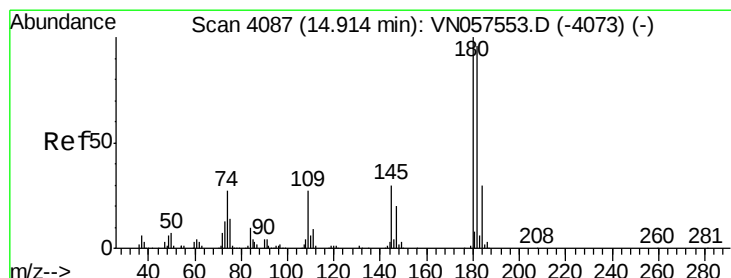
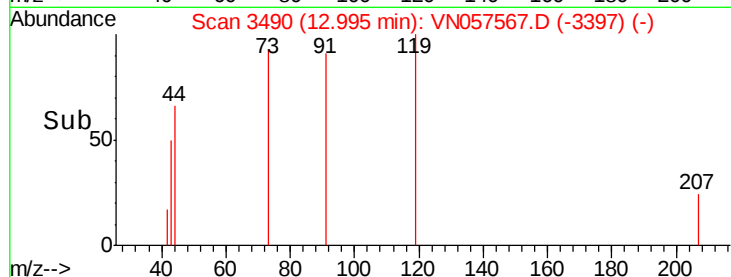
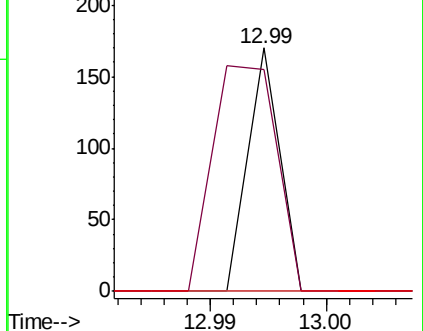
134 0.0 12.2 36.6#



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VN0

Ion 134.00 (133.70 to 134.70): V



#93

1,2,4-Trichlorobenzene

Concen: 3.931 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. -0.00 min

Lab File: VN057567.D

Acq: 29 Aug 2019 22:59

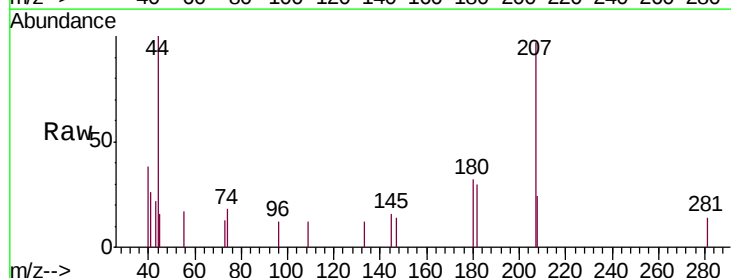
Tgt Ion:180 Resp: 525

Ion Ratio Lower Upper

180 100

182 103.0 46.7 140.1

145 40.8 15.6 46.8



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

