

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF071918\
 Data File : VF059571.D
 Acq On : 19 Jul 2018 22:46
 Operator : VA/AP
 Sample : J4041-01
 Misc : 5.06g/5mL/MSVOA F/SOIL
 ALS Vial : 63 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Jul 20 04:53:57 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F071718S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 18 04:09:10 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.03	168	183605	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.76	114	285251	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.91	117	247963	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.63	152	125783	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.01	65	167892	58.80	ug/l	-0.02
Spiked Amount			Recovery	=	117.60%	
35) Dibromofluoromethane	4.28	113	136215	55.14	ug/l	-0.02
Spiked Amount			Recovery	=	110.28%	
50) Toluene-d8	7.70	98	239419	38.47	ug/l	-0.02
Spiked Amount			Recovery	=	76.94%	
62) 4-Bromofluorobenzene	11.51	95	126874	38.86	ug/l	-0.01
Spiked Amount			Recovery	=	77.72%	

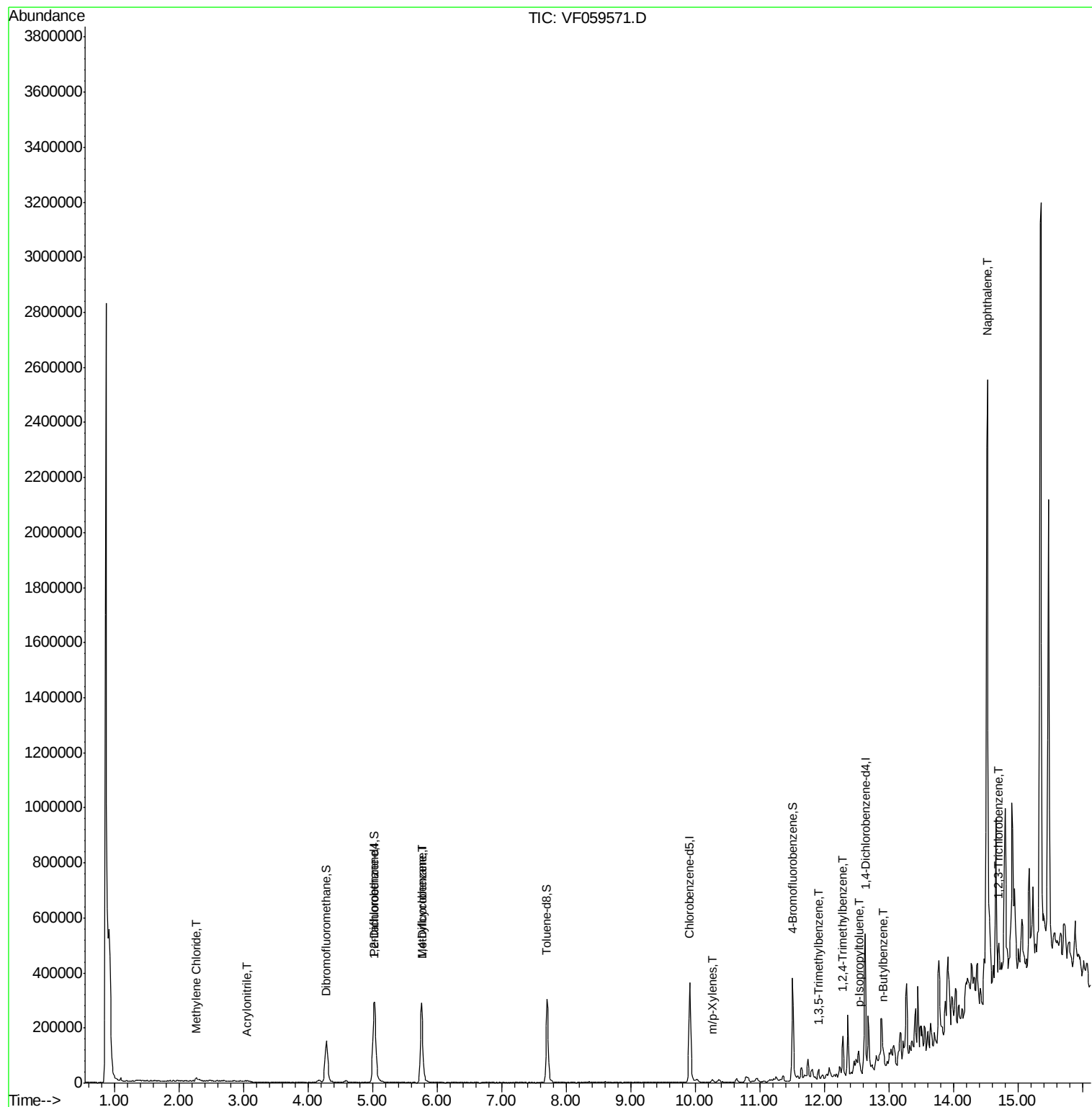
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.69	59	605	Below Cal	#	1
13) Acrolein	1.92	56	157	Below Cal		92
15) Acrylonitrile	3.05	53	314	1.311	ug/l #	35
16) Acetone	2.33	43	2903	Below Cal		100
18) Methyl Acetate	2.47	43	2325	Below Cal	#	67
20) Methylene Chloride	2.27	84	7191	1.099	ug/l #	88
29) Tetrahydrofuran	4.26	42	476	Below Cal	#	50
37) Ethyl Acetate	4.29	43	292	Below Cal	#	41
39) Methylcyclohexane	5.75	83	4670	2.155	ug/l #	42
49) 1,4-Dioxane	6.94	88	63	Below Cal	#	15
68) m/p-Xylenes	10.26	106	3174	1.086	ug/l	88
80) 1,3,5-Trimethylbenzene	11.91	105	14599	2.195	ug/l	97
84) 1,2,4-Trimethylbenzene	12.29	105	51490	7.525	ug/l	94
86) p-Isopropyltoluene	12.53	119	19533	2.766	ug/l	90
89) n-Butylbenzene	12.92	91	7769	1.175	ug/l	87
95) Naphthalene	14.52	128	1618422	351.236	ug/l	99
96) 1,2,3-Trichlorobenzene	14.70	180	15512	7.740	ug/l #	27

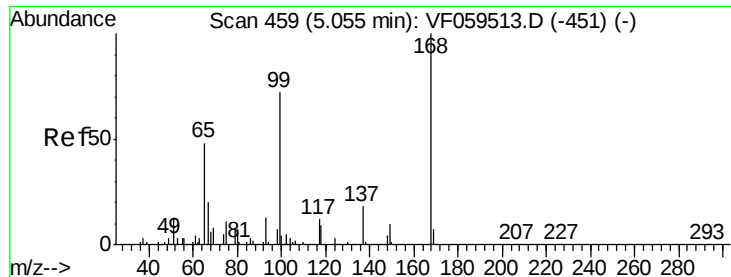
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.03 min Scan# 456

Delta R.T. -0.02 min

Lab File: VF059571.D

Acq: 19 Jul 2018 22:46

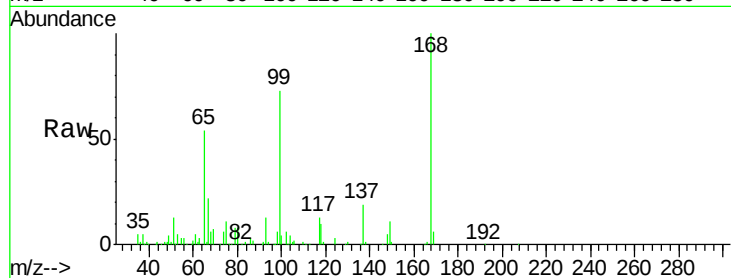
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 183605

Ion Ratio Lower Upper

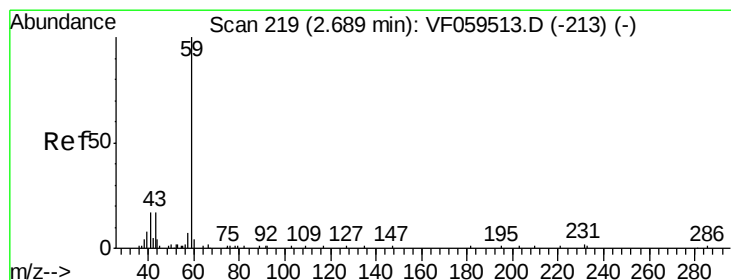
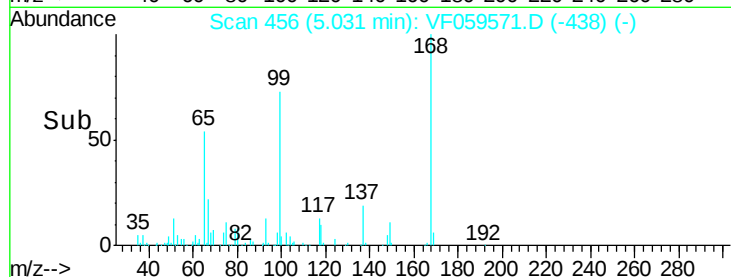
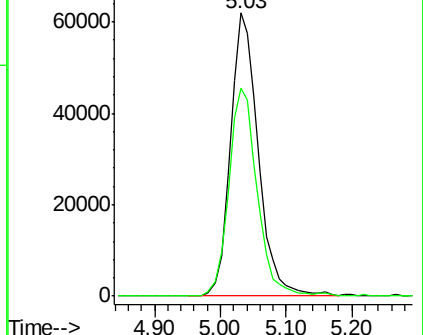
168 100

99 73.4 57.6 86.4



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#11

Tert butyl alcohol

Concen: Below Cal

RT: 2.69 min Scan# 219

Delta R.T. 0.01 min

Lab File: VF059571.D

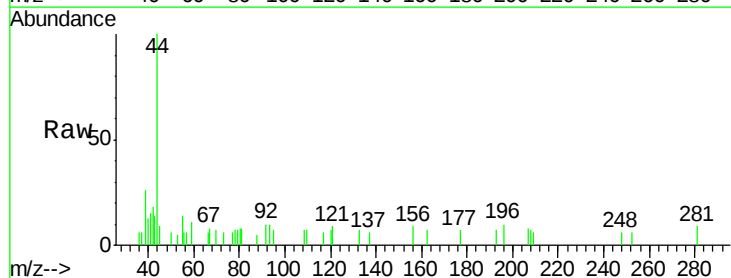
Acq: 19 Jul 2018 22:46

Tgt Ion: 59 Resp: 605

Ion Ratio Lower Upper

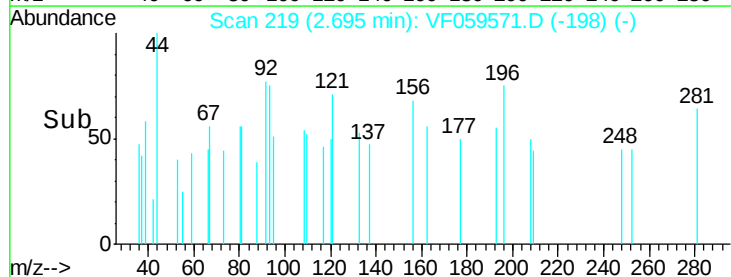
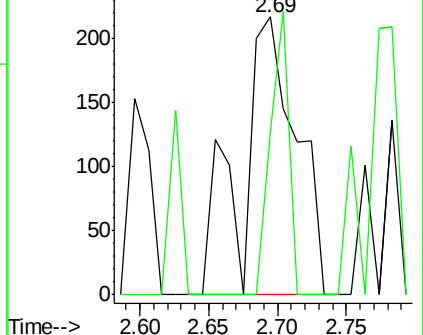
59 100

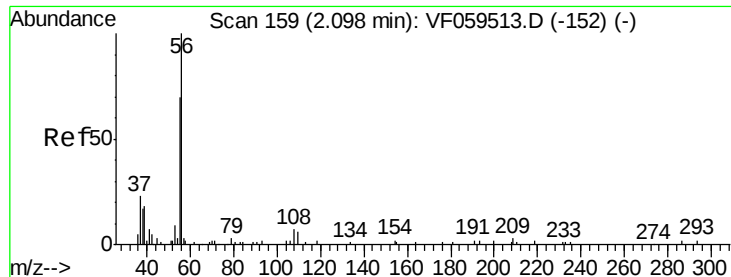
57 58.5 7.7 11.5#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0





#13

Acrolein

Concen: Below Cal

RT: 1.92 min Scan# 140

Delta R.T. -0.18 min

Lab File: VF059571.D

Acq: 19 Jul 2018 22:46

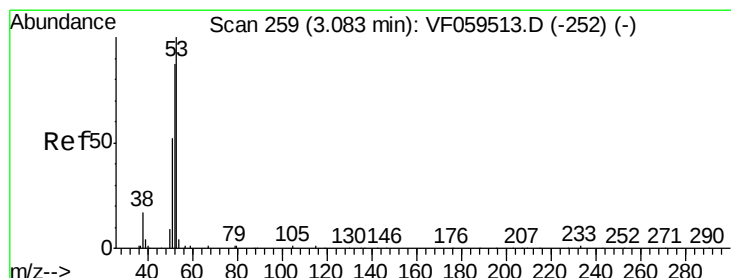
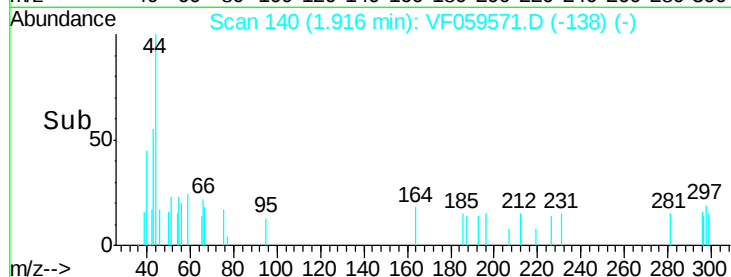
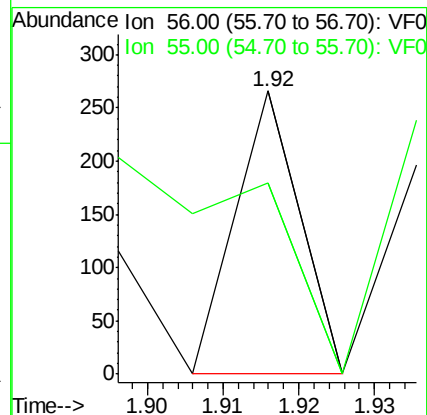
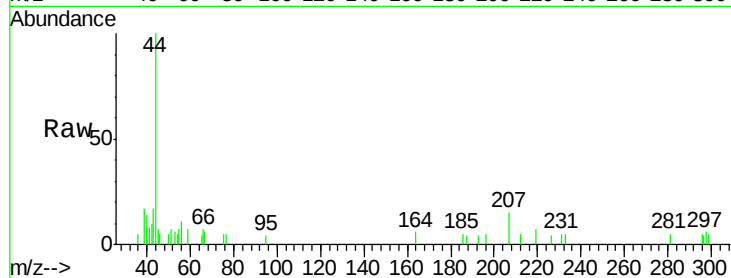
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 56 Resp: 157

Ion Ratio Lower Upper

56 100

55 67.3 59.4 89.2



#15

Acrylonitrile

Concen: 1.311 ug/l

RT: 3.05 min Scan# 255

Delta R.T. -0.03 min

Lab File: VF059571.D

Acq: 19 Jul 2018 22:46

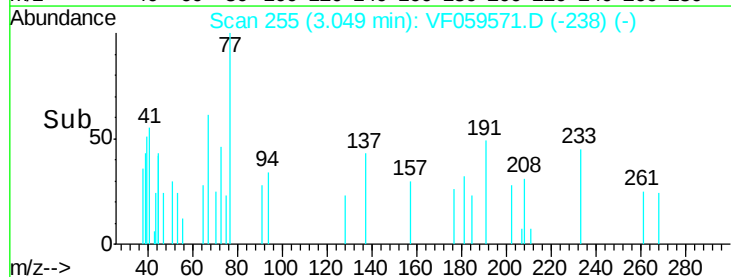
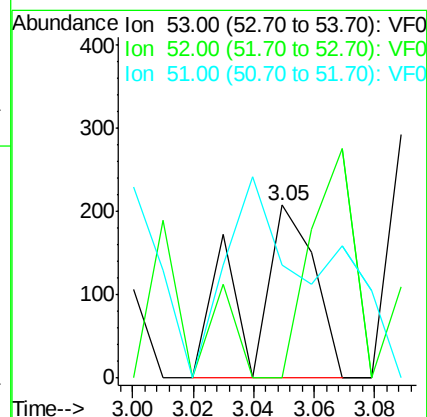
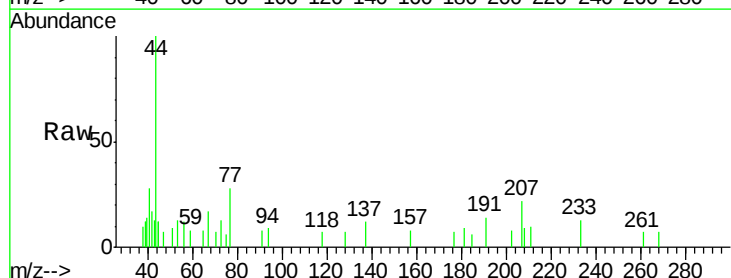
Tgt Ion: 53 Resp: 314

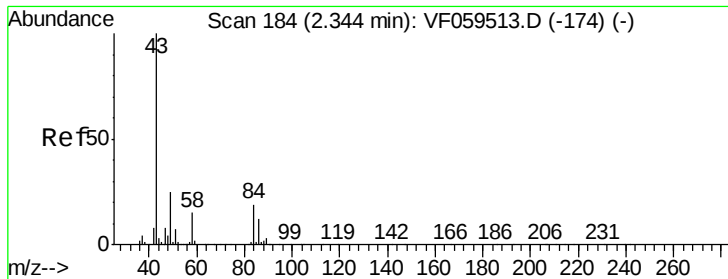
Ion Ratio Lower Upper

53 100

52 0.0 70.1 105.1#

51 65.7 42.5 63.7#





#16

Acetone

Concen: Below Cal

RT: 2.33 min Scan# 182

Delta R.T. -0.01 min

Lab File: VF059571.D

Acq: 19 Jul 2018 22:46

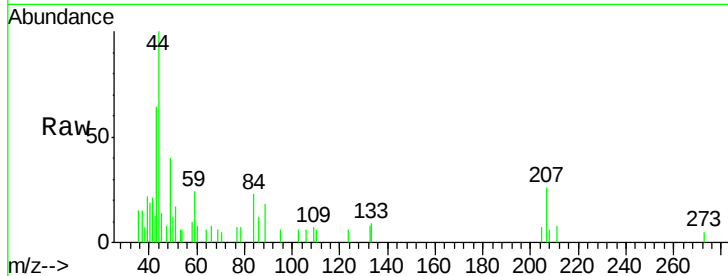
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 2903

Ion Ratio Lower Upper

43 100

58 14.9 11.8 17.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

2.33

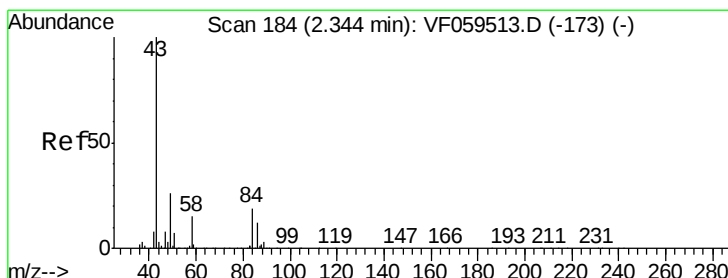
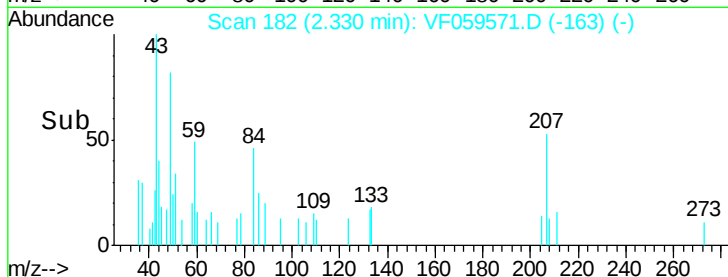
1000

500

0

Time-->

2.25 2.30 2.35 2.40



#20

Methylene Chloride

Concen: 1.099 ug/l

RT: 2.27 min Scan# 176

Delta R.T. -0.07 min

Lab File: VF059571.D

Acq: 19 Jul 2018 22:46

Tgt Ion: 84 Resp: 7191

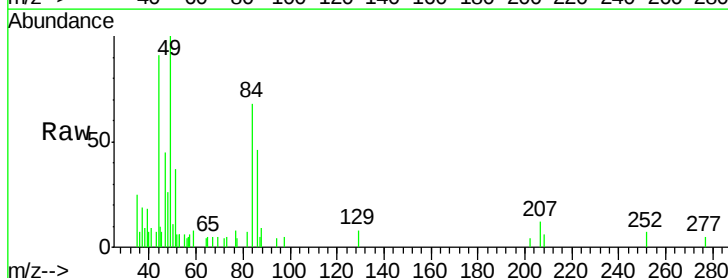
Ion Ratio Lower Upper

84 100

49 147.5 109.4 164.2

51 54.2 30.5 45.7#

86 67.5 47.6 71.4



Abundance Ion 84.00 (83.70 to 84.70): VF0

Ion 49.00 (48.70 to 49.70): VF0

Ion 51.00 (50.70 to 51.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

5000

4000

3000

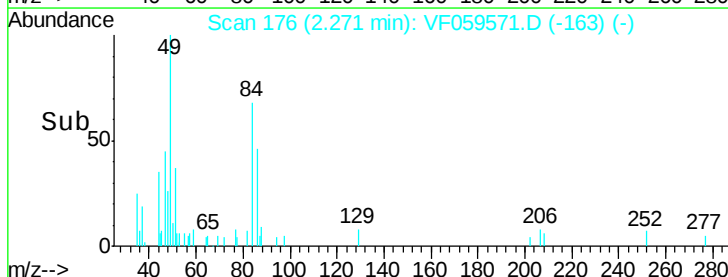
2000

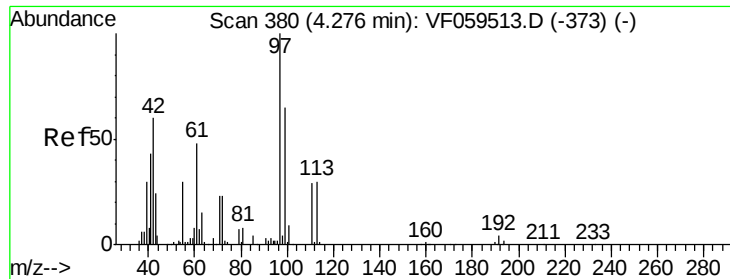
1000

0

Time-->

2.20 2.30 2.40





#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.26 min Scan# 378

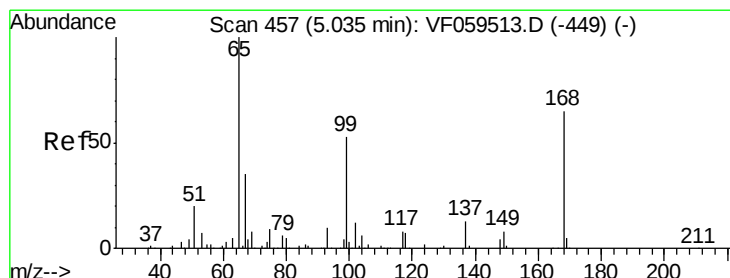
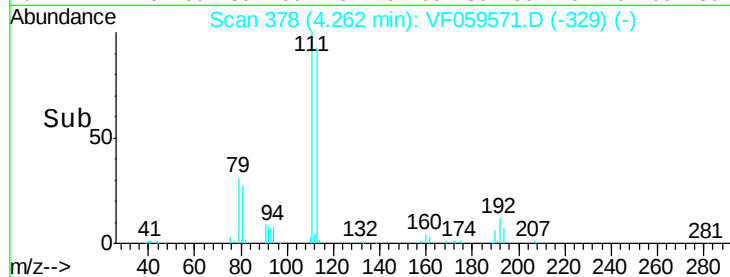
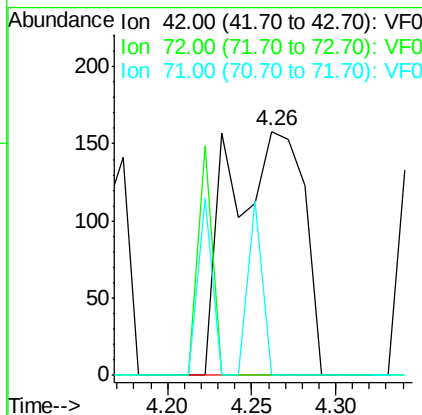
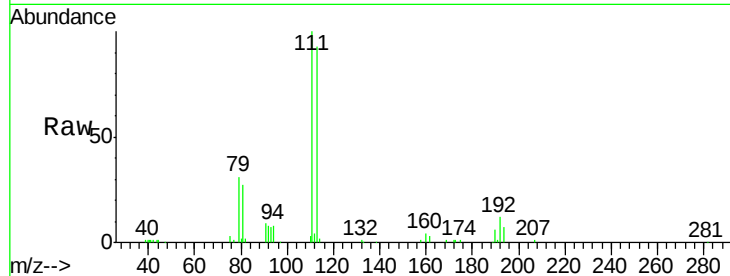
Delta R.T. -0.01 min

Lab File: VF059571.D

Acq: 19 Jul 2018 22:46

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:	42	Resp:	476
Ion	Ratio	Lower	Upper
42	100		
72	0.0	28.7	43.1#
71	14.1	30.8	46.2#



#33

1,2-Dichloroethane-d4

Concen: 58.796 ug/l

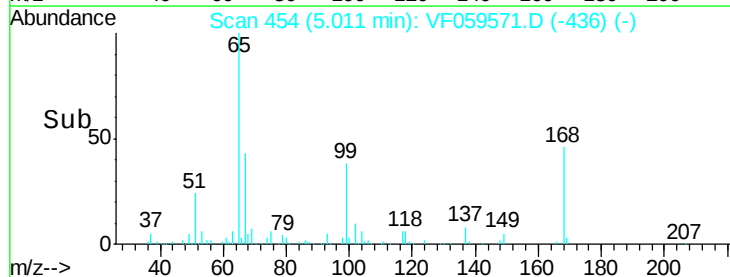
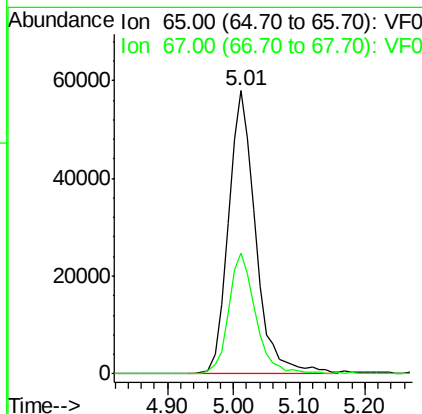
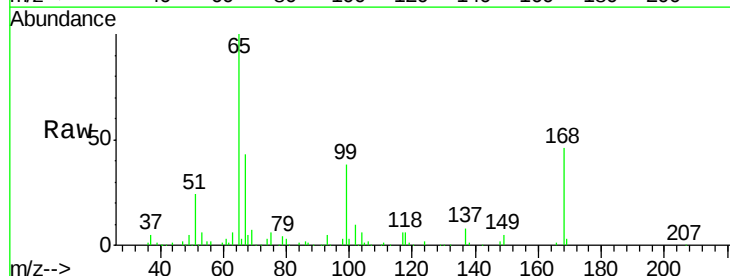
RT: 5.01 min Scan# 454

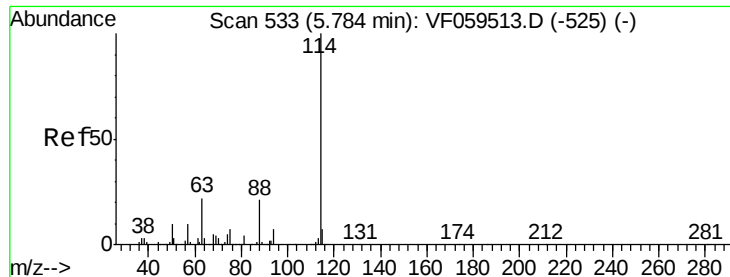
Delta R.T. -0.02 min

Lab File: VF059571.D

Acq: 19 Jul 2018 22:46

Tgt Ion:	65	Resp:	167892
Ion	Ratio	Lower	Upper
65	100		
67	42.6	0.0	91.2

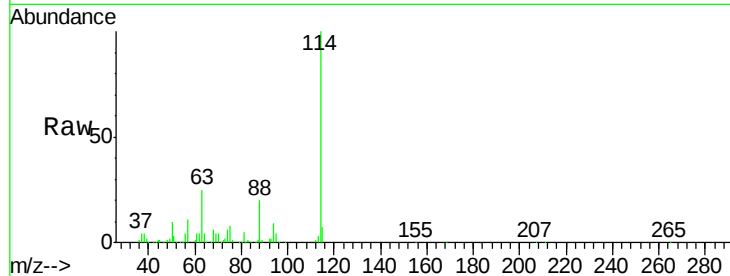




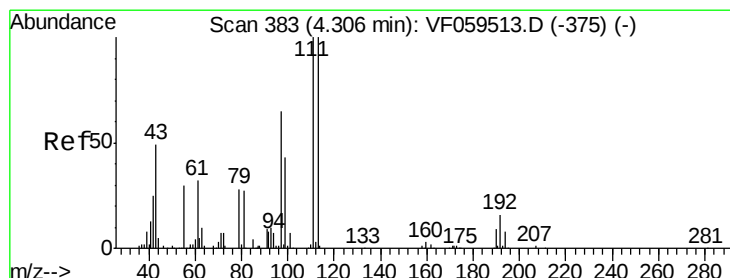
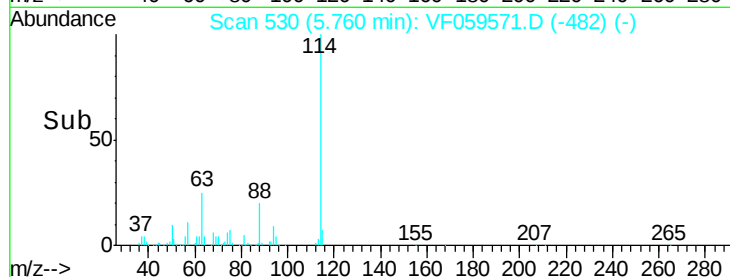
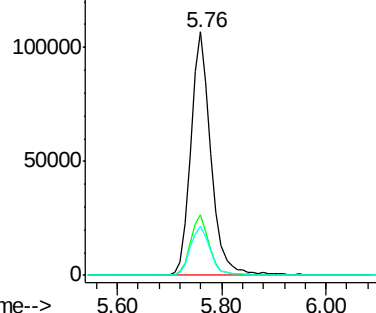
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.76 min Scan# 530
 Delta R.T. -0.02 min
 Lab File: VF059571.D
 Acq: 19 Jul 2018 22:46

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion:114 Resp: 285251
 Ion Ratio Lower Upper
 114 100
 63 25.0 0.0 44.8
 88 20.0 0.0 42.6

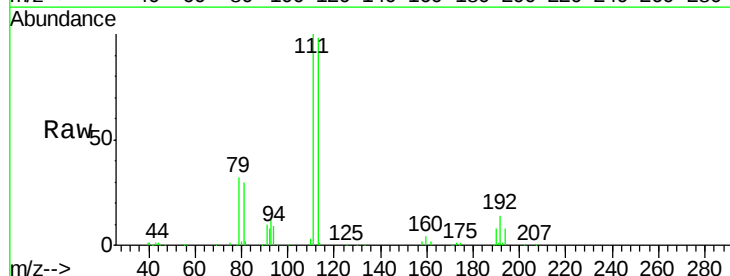


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 63.00 (62.70 to 63.70): VF0
 Ion 88.00 (87.70 to 88.70): VF0

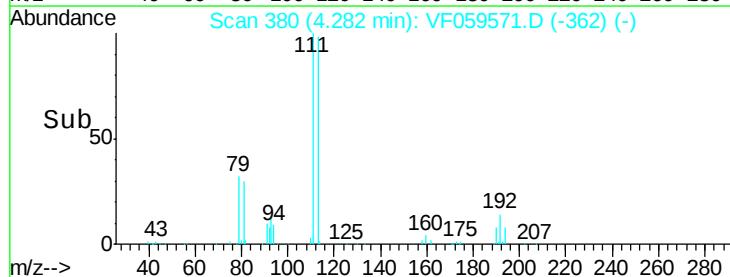
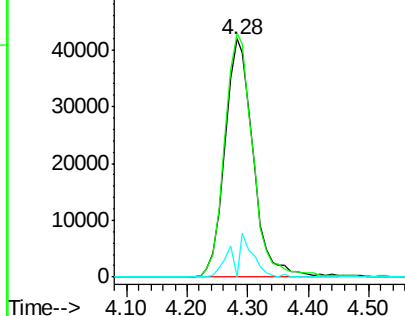


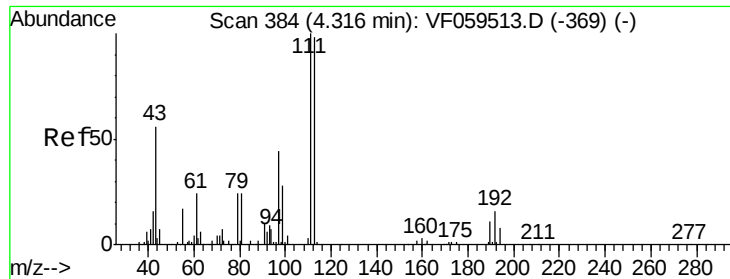
#35
 Dibromofluoromethane
 Concen: 55.137 ug/l
 RT: 4.28 min Scan# 380
 Delta R.T. -0.02 min
 Lab File: VF059571.D
 Acq: 19 Jul 2018 22:46

Tgt Ion:113 Resp: 136215
 Ion Ratio Lower Upper
 113 100
 111 102.3 80.3 120.5
 192 0.0 13.1 19.7#



Abundance Ion 113.00 (112.70 to 113.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 192.00 (191.70 to 192.70): V

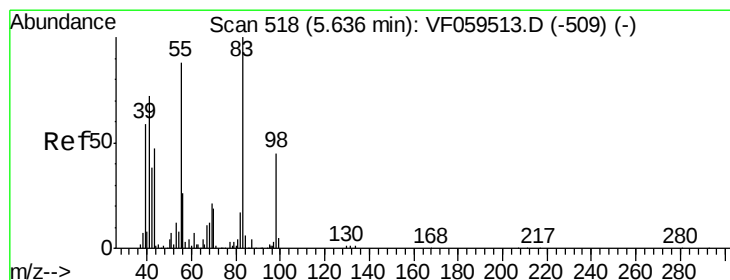
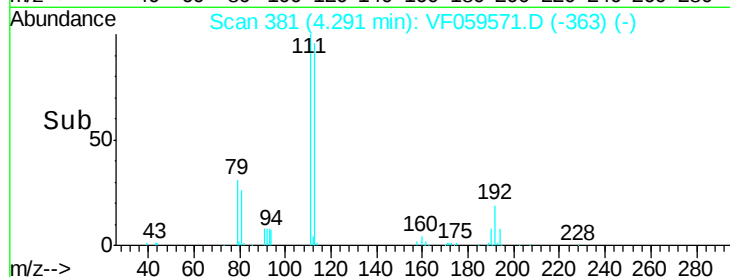
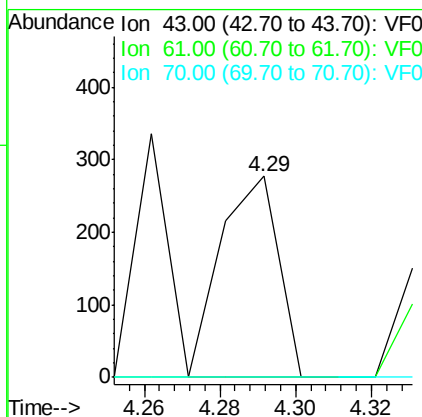
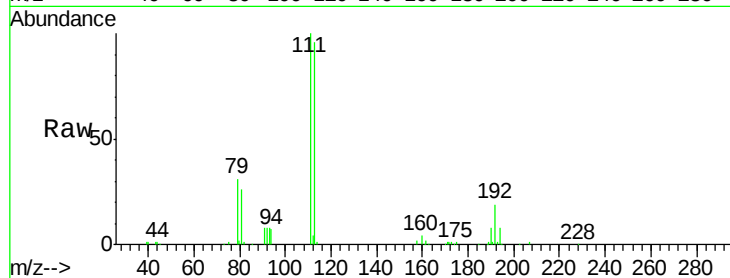




#37
Ethyl Acetate
Concen: Below Cal
RT: 4.29 min Scan# 381
Delta R.T. -0.02 min
Lab File: VF059571.D
Acq: 19 Jul 2018 22:46

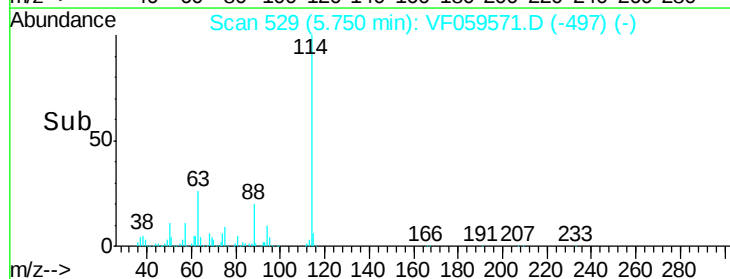
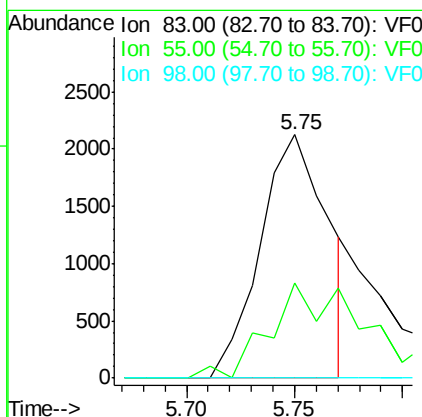
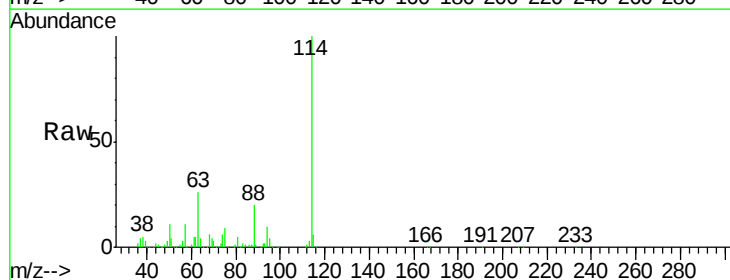
Instrument :
MSVOA_F
ClientSampleId :

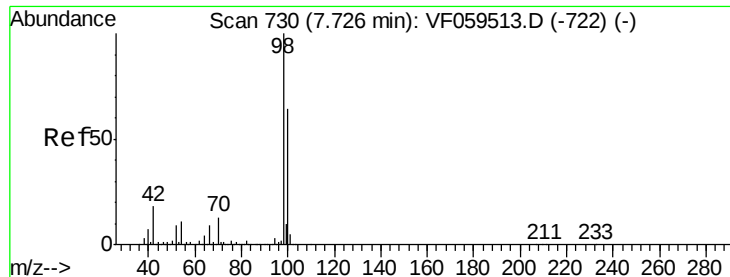
Tot Ion: 43 Resp: 292
Ion Ratio Lower Upper
43 100
61 0.0 33.7 50.5#
70 0.0 7.4 11.0#



#39
Methylcyclohexane
Concen: 2.155 ug/l
RT: 5.75 min Scan# 529
Delta R.T. 0.11 min
Lab File: VF059571.D
Acq: 19 Jul 2018 22:46

Tgt Ion: 83 Resp: 4670
Ion Ratio Lower Upper
83 100
55 39.3 70.2 105.4#
98 0.0 36.2 54.2#

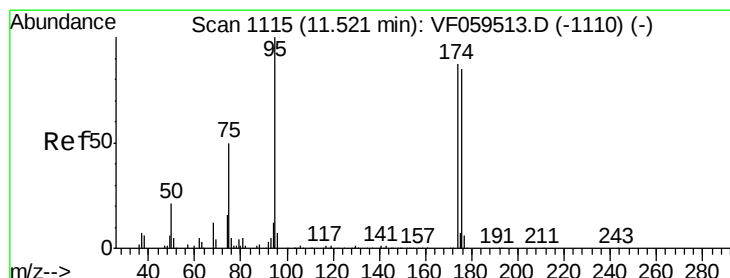
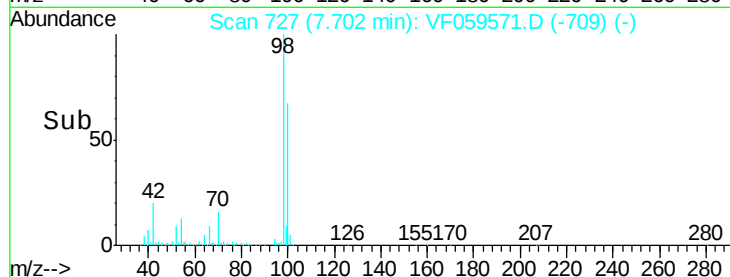
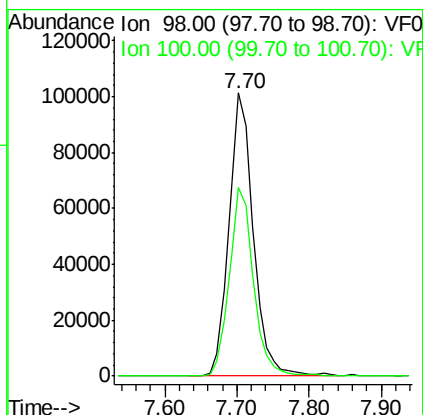
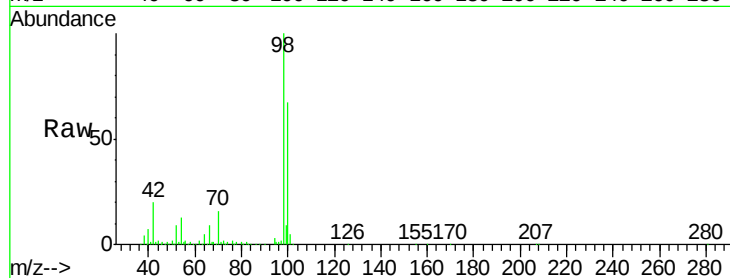




#50
Toluene-d8
Concen: 38.473 ug/l
RT: 7.70 min Scan# 727
Delta R.T. -0.02 min
Lab File: VF059571.D
Acq: 19 Jul 2018 22:46

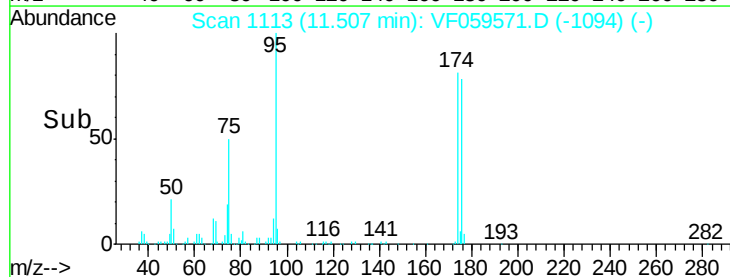
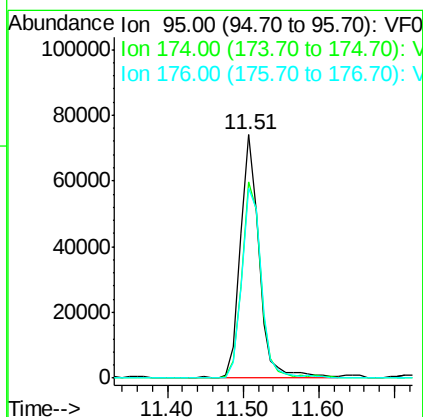
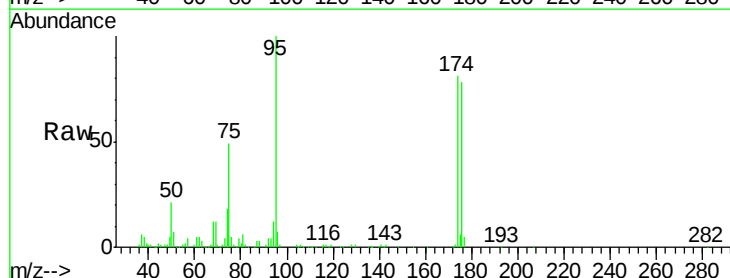
Instrument :
MSVOA_F
ClientSampled :

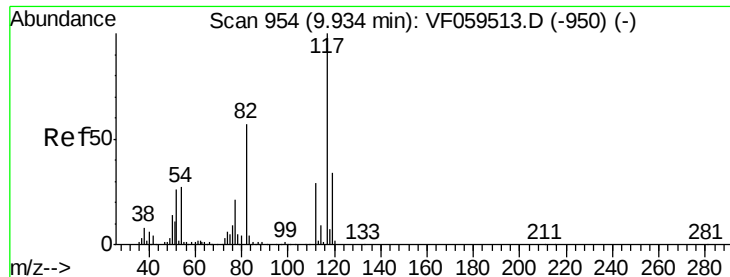
Tot Ion: 98 Resp: 239419
Ion Ratio Lower Upper
98 100
100 66.9 50.9 76.3



#62
4-Bromofluorobenzene
Concen: 38.864 ug/l
RT: 11.51 min Scan# 1113
Delta R.T. -0.01 min
Lab File: VF059571.D
Acq: 19 Jul 2018 22:46

Tgt Ion: 95 Resp: 126874
Ion Ratio Lower Upper
95 100
174 80.7 0.0 174.4
176 77.8 0.0 169.4

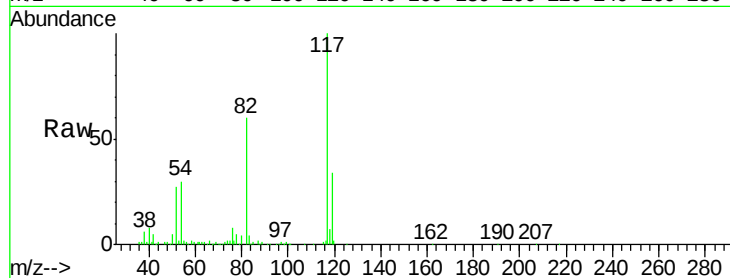




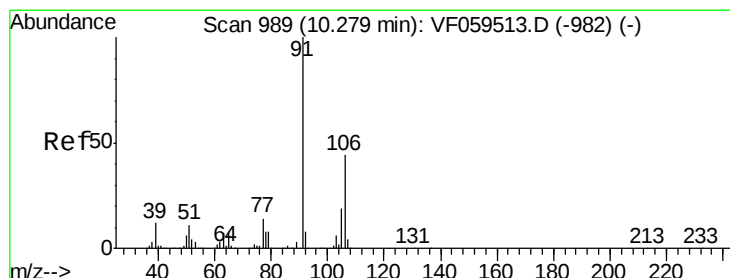
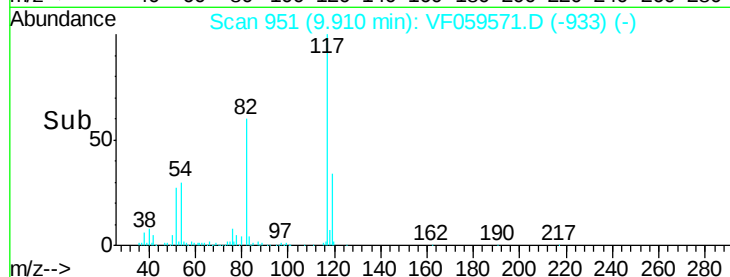
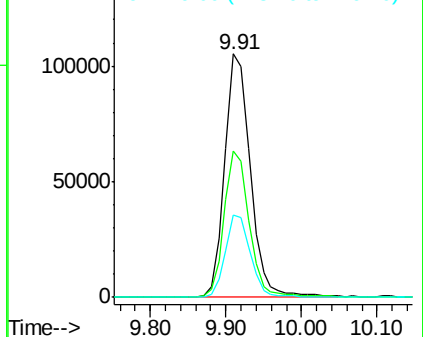
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.91 min Scan# 951
Delta R.T. -0.02 min
Lab File: VF059571.D
Acq: 19 Jul 2018 22:46

Instrument :
MSVOA_F
ClientSampled :

Tot Ion:117 Resp: 247963
Ion Ratio Lower Upper
117 100
82 60.3 46.1 69.1
119 33.7 27.2 40.8

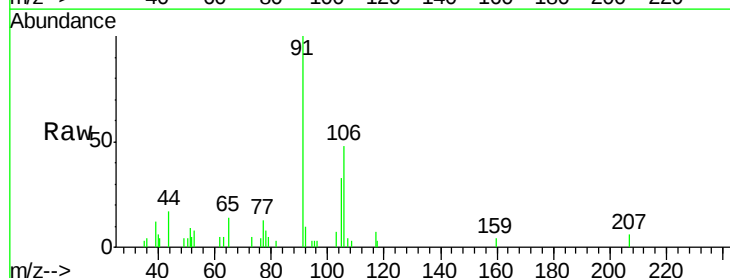


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

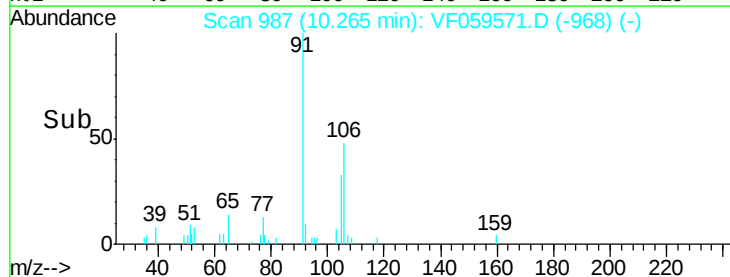
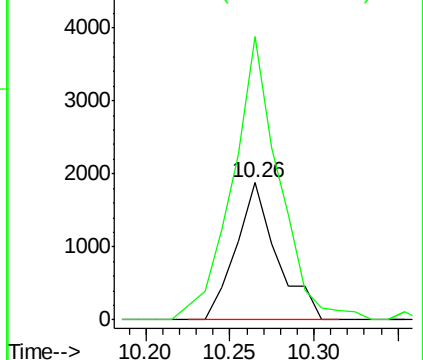


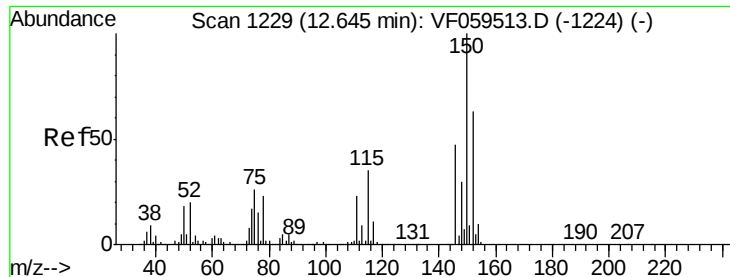
#68
m/p-Xylenes
Concen: 1.086 ug/l
RT: 10.26 min Scan# 987
Delta R.T. -0.01 min
Lab File: VF059571.D
Acq: 19 Jul 2018 22:46

Tgt Ion:106 Resp: 3174
Ion Ratio Lower Upper
106 100
91 206.5 181.0 271.4



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VF0



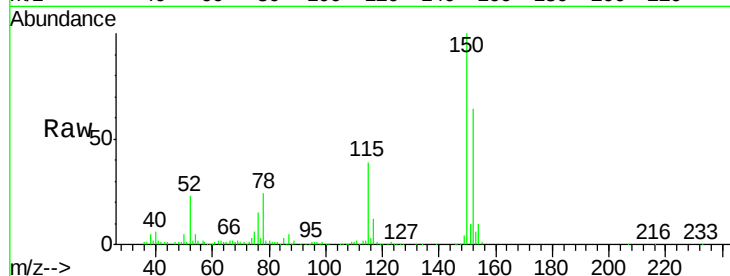


#72

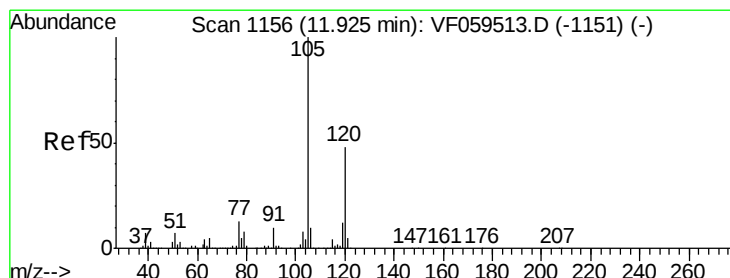
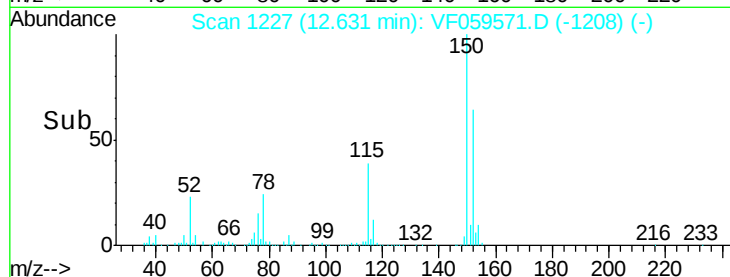
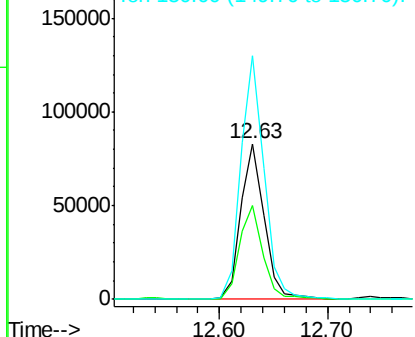
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.63 min Scan# 1227
Delta R.T. -0.01 min
Lab File: VF059571.D
Acq: 19 Jul 2018 22:46

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	60.7	27.8	83.3
150	156.4	0.0	318.4



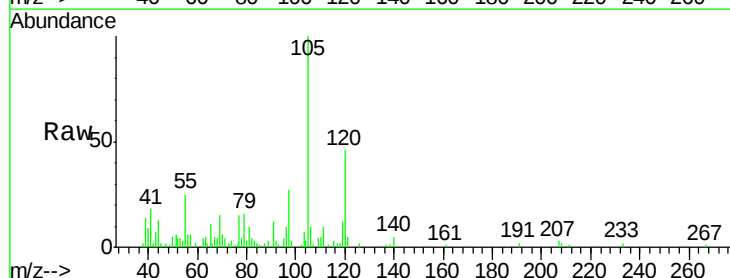
Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V



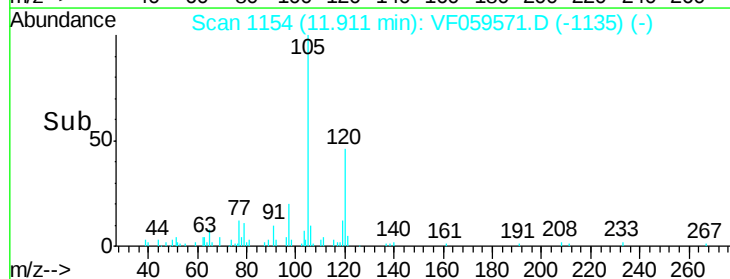
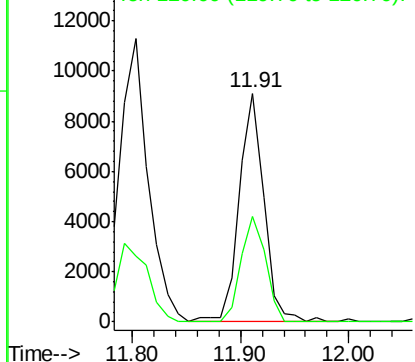
#80

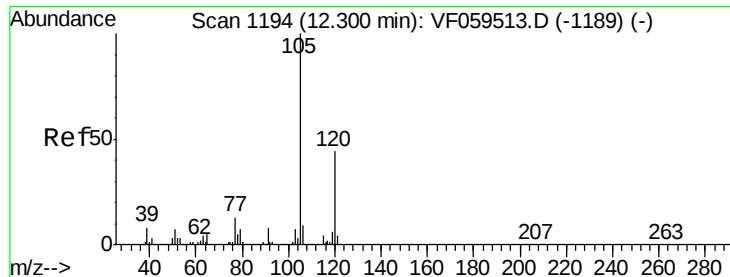
1,3,5-Trimethylbenzene
Concen: 2.195 ug/l
RT: 11.91 min Scan# 1154
Delta R.T. -0.01 min
Lab File: VF059571.D
Acq: 19 Jul 2018 22:46

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.0	24.1	72.4



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

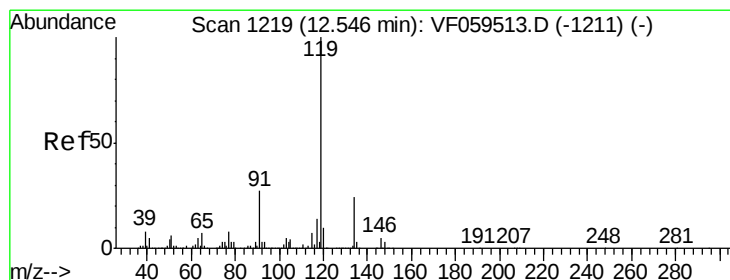
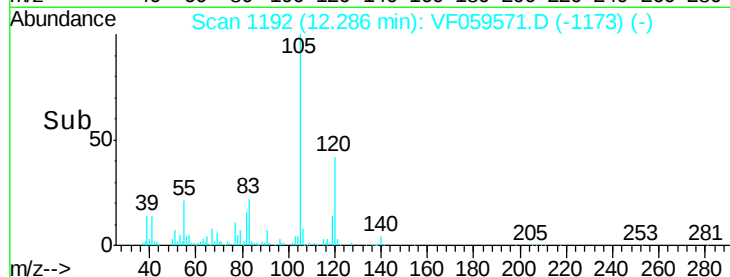
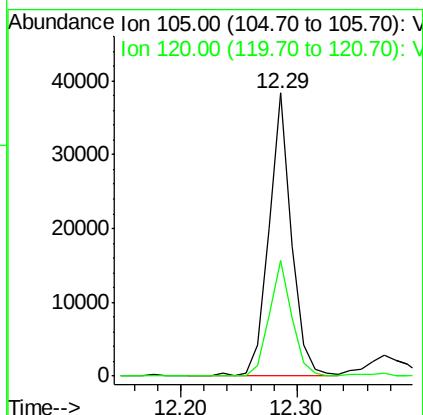
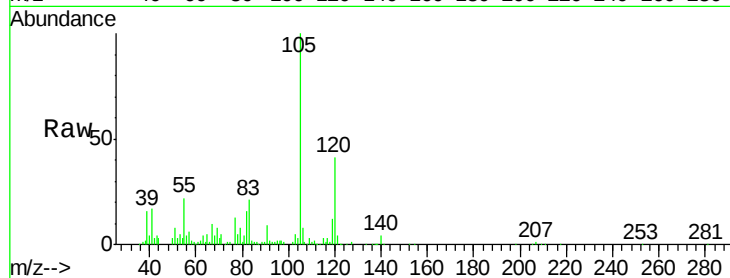




#84
1,2,4-Trimethylbenzene
Concen: 7.525 ug/l
RT: 12.29 min Scan# 1192
Delta R.T. -0.01 min
Lab File: VF059571.D
Acq: 19 Jul 2018 22:46

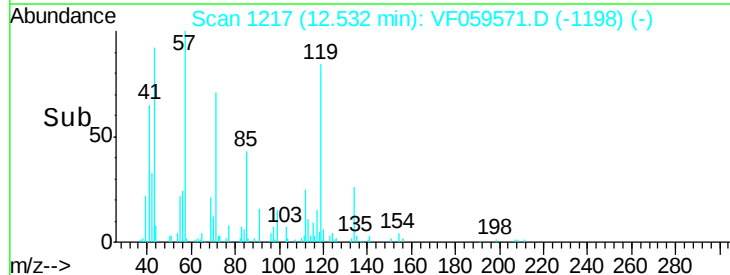
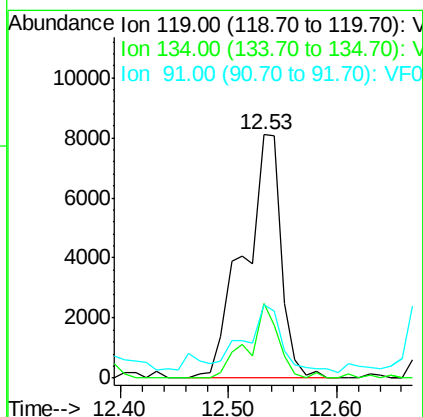
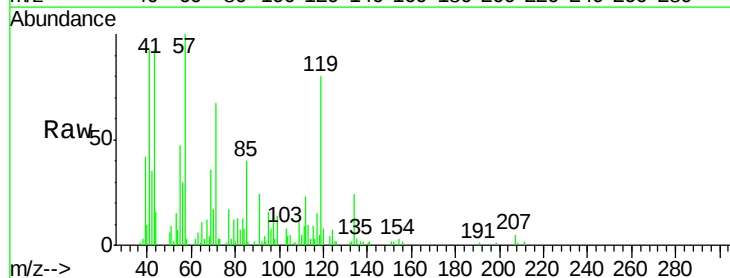
Instrument :
MSVOA_F
ClientSampleId :

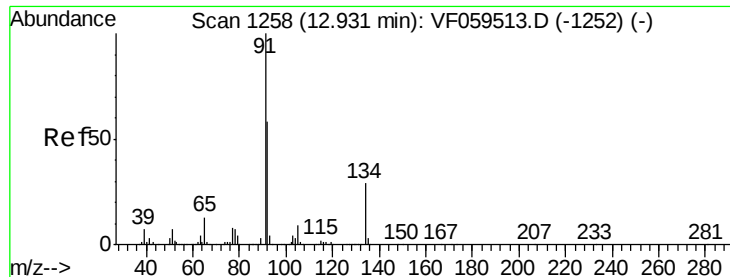
Tot Ion:105 Resp: 51490
Ion Ratio Lower Upper
105 100
120 41.1 22.5 67.5



#86
p-Isopropyltoluene
Concen: 2.766 ug/l
RT: 12.53 min Scan# 1217
Delta R.T. -0.01 min
Lab File: VF059571.D
Acq: 19 Jul 2018 22:46

Tgt Ion:119 Resp: 19533
Ion Ratio Lower Upper
119 100
134 30.5 12.0 36.0
91 30.4 13.5 40.4





#89

n-Butylbenzene

Concen: 1.175 ug/l

RT: 12.92 min Scan# 1256

Delta R.T. -0.01 min

Lab File: VF059571.D

Acq: 19 Jul 2018 22:46

Instrument :

MSVOA_F

ClientSampleId :

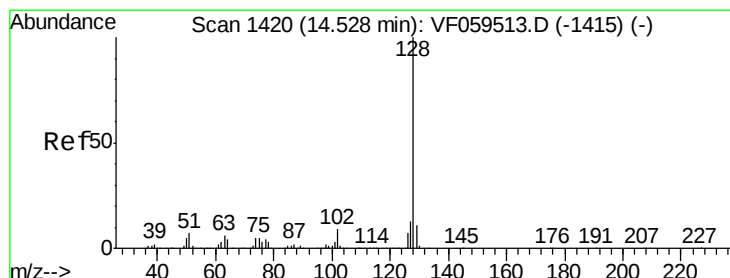
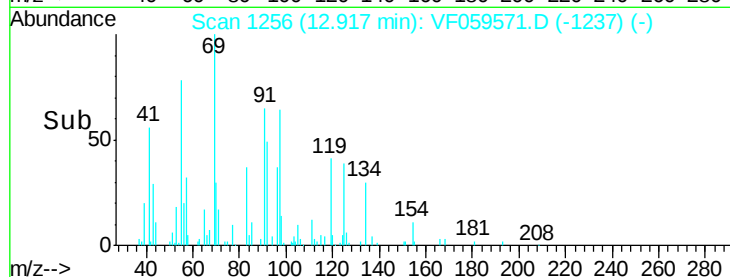
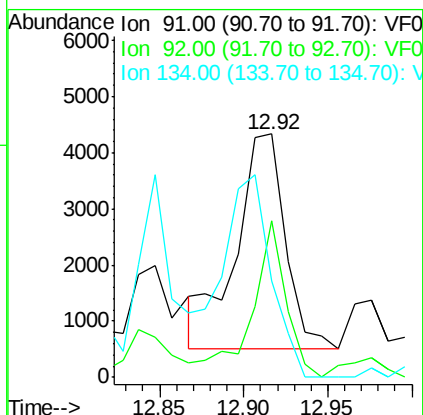
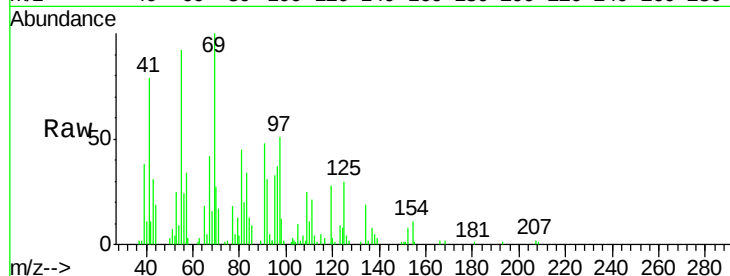
Tot Ion: 91 Resp: 7769

Ion Ratio Lower Upper

91 100

92 64.6 29.1 87.3

134 39.8 14.3 42.9



#95

Naphthalene

Concen: 351.236 ug/l

RT: 14.52 min Scan# 1419

Delta R.T. -0.00 min

Lab File: VF059571.D

Acq: 19 Jul 2018 22:46

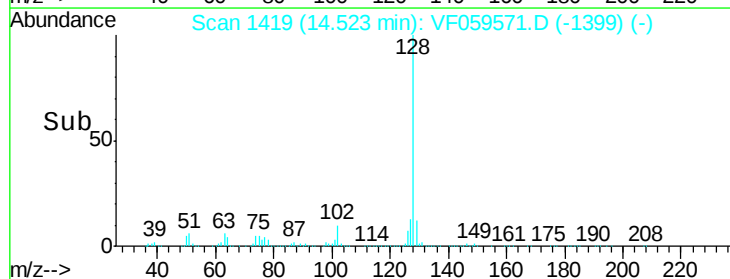
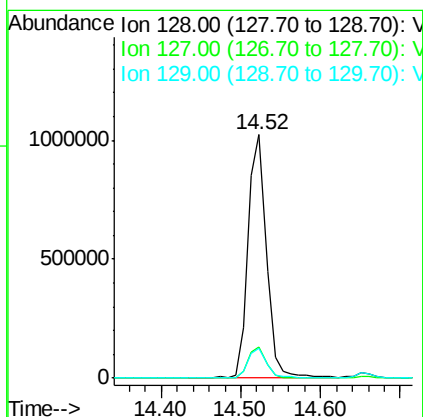
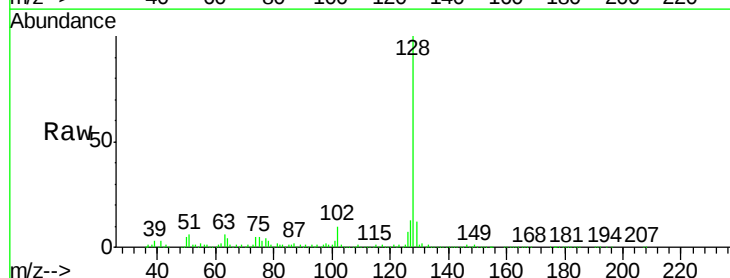
Tgt Ion: 128 Resp: 1618422

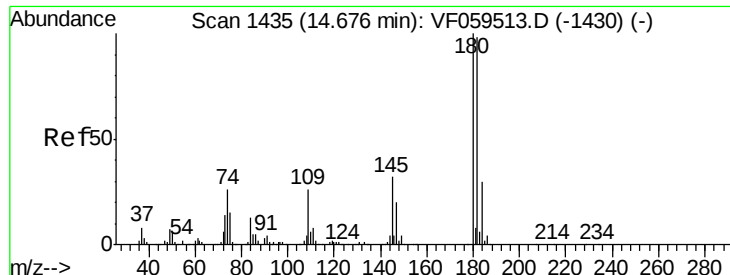
Ion Ratio Lower Upper

128 100

127 13.0 10.2 15.2

129 12.1 9.0 13.4





#96

1,2,3-Trichlorobenzene

Concen: 7.740 ug/l

RT: 14.70 min Scan# 1437

Delta R.T. 0.03 min

Lab File: VF059571.D

Acq: 19 Jul 2018 22:46

Instrument :

MSVOA_F

ClientSampleId :

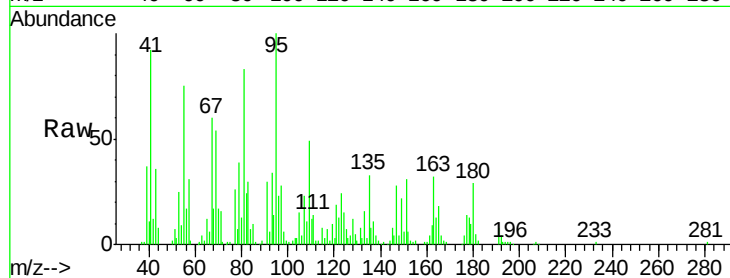
Tot Ion:180 Resp: 15512

Ion Ratio Lower Upper

180 100

182 5.1 48.8 146.4#

145 26.0 16.2 48.6



Abundance Ion 180.00 (179.70 to 180.70): V
Ion 182.00 (181.70 to 182.70): V
Ion 145.00 (144.70 to 145.70): V

