

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX112719\
 Data File : VX013678.D
 Acq On : 28 Nov 2019 02:21
 Operator : JC/SP
 Sample : K5968-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 GR-OF-20191121

Quant Time: Nov 28 04:23:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112619W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 26 15:53:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	686518	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	1093108	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	962462	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	443199	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	393003	49.32	ug/l	0.00
Spiked Amount			Recovery	=	98.64%	
35) Dibromofluoromethane	5.49	113	322509	47.72	ug/l	0.00
Spiked Amount			Recovery	=	95.44%	
50) Toluene-d8	8.71	98	1284502	48.79	ug/l	0.00
Spiked Amount			Recovery	=	97.58%	
62) 4-Bromofluorobenzene	11.14	95	434435	45.76	ug/l	0.00
Spiked Amount			Recovery	=	91.52%	

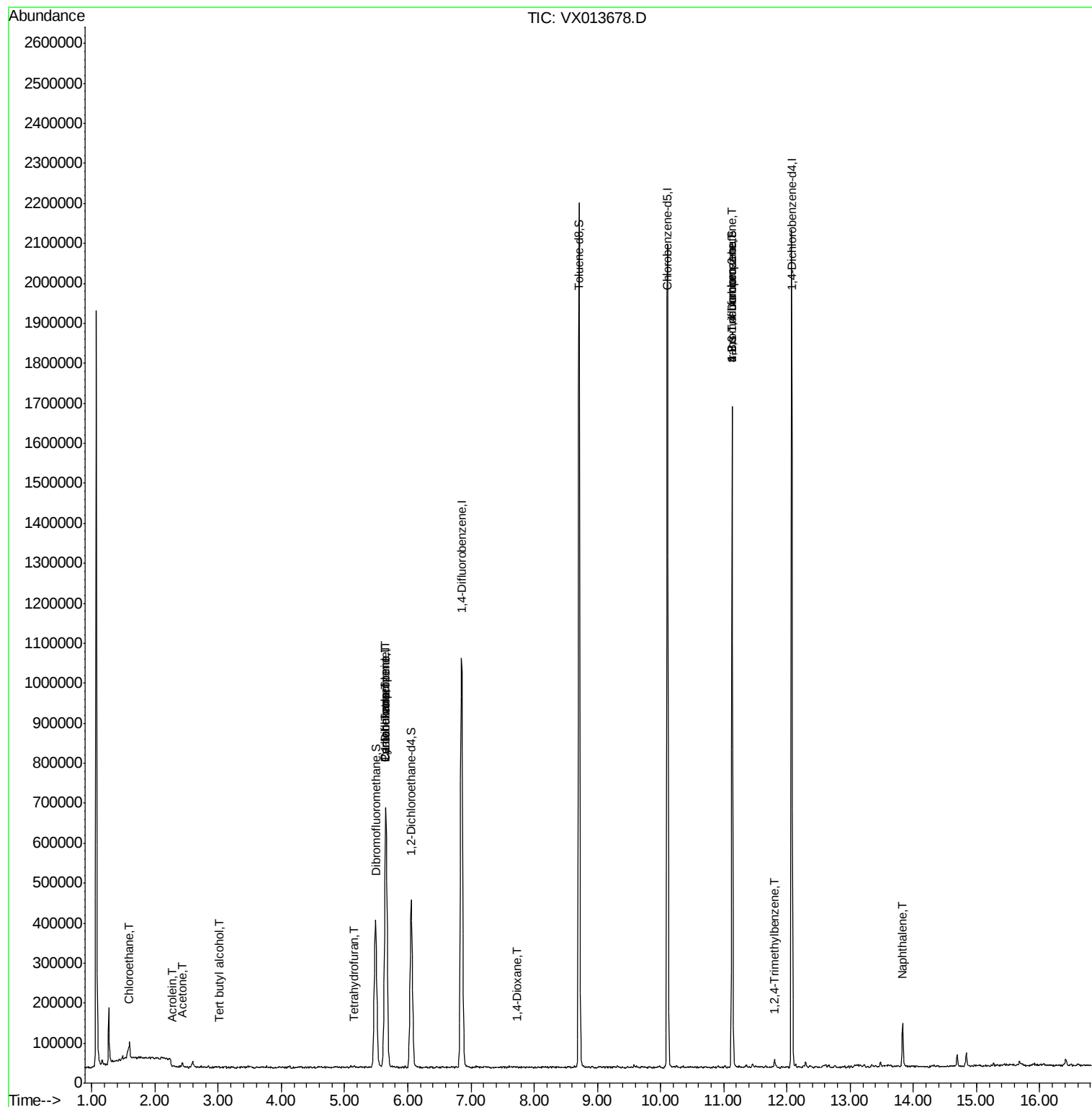
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.58	64	13163	2.397	ug/l #	57
11) Tert butyl alcohol	3.02	59	1468	0.746	ug/l #	5
13) Acrolein	2.28	56	565	6.423	ug/l #	79
16) Acetone	2.44	43	15391	3.912	ug/l	99
29) Tetrahydrofuran	5.14	42	2770	0.768	ug/l #	53
31) Cyclohexane	5.65	56	11589	0.984	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	45485	4.584	ug/l #	42
38) Carbon Tetrachloride	5.65	117	60657	6.629	ug/l #	16
49) 1,4-Dioxane	7.73	88	272	1.365	ug/l #	1
76) 1,2,3-Trichloropropane	11.14	75	215282	21.597	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.14	75	215282	59.084	ug/l #	11
84) 1,2,4-Trimethylbenzene	11.81	105	10397	0.402	ug/l	97
95) Naphthalene	13.83	128	79357	2.643	ug/l	97

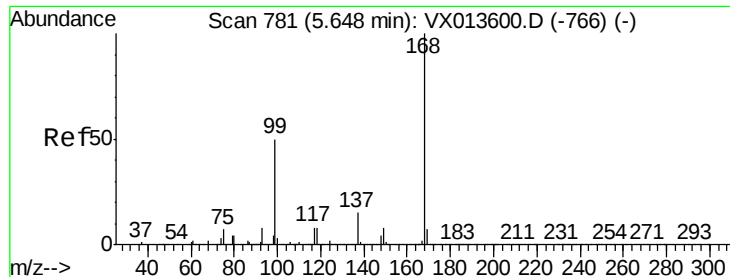
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX013678.D

Acq: 28 Nov 2019 02:21

Instrument :

MSVOA_X

ClientSampleId :

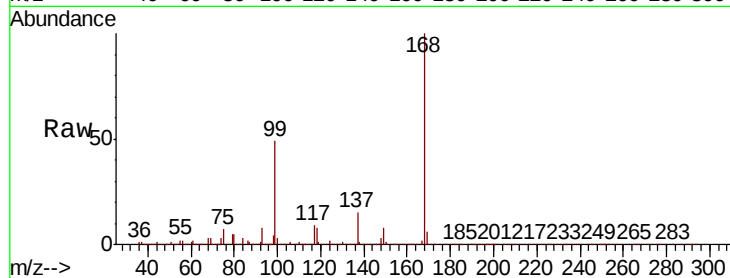
GR-OF-20191121

Tot Ion:168 Resp: 686518

Ion Ratio Lower Upper

168 100

99 48.9 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

250000

200000

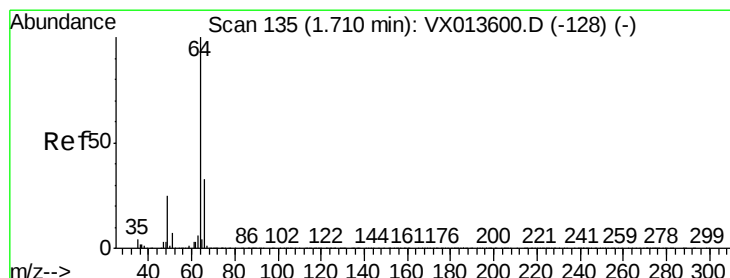
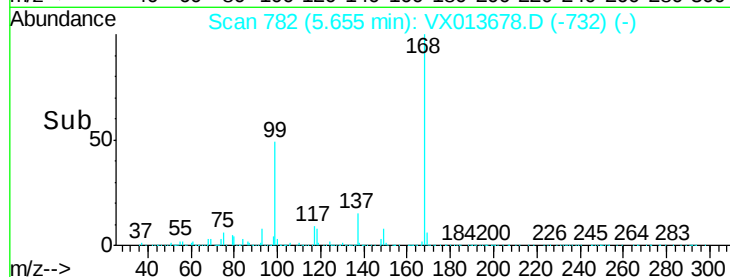
150000

100000

50000

0

Time-->



#6

Chloroethane

Concen: 2.397 ug/l

RT: 1.58 min Scan# 113

Delta R.T. -0.13 min

Lab File: VX013678.D

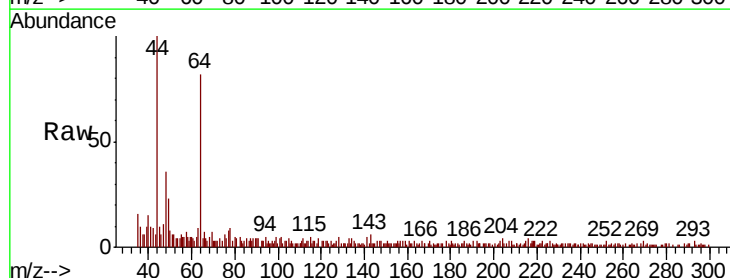
Acq: 28 Nov 2019 02:21

Tgt Ion: 64 Resp: 13163

Ion Ratio Lower Upper

64 100

66 8.8 26.7 40.1#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

8000

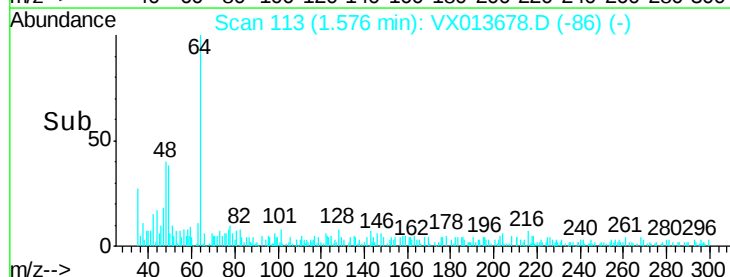
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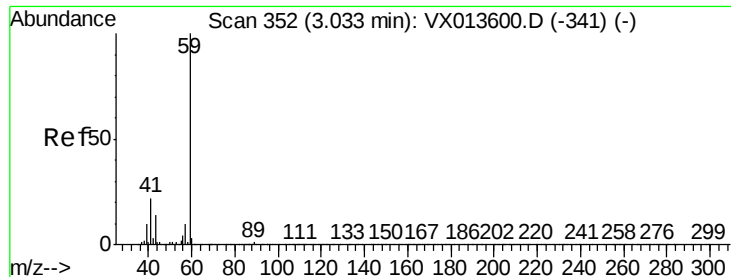
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2000

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Time-->



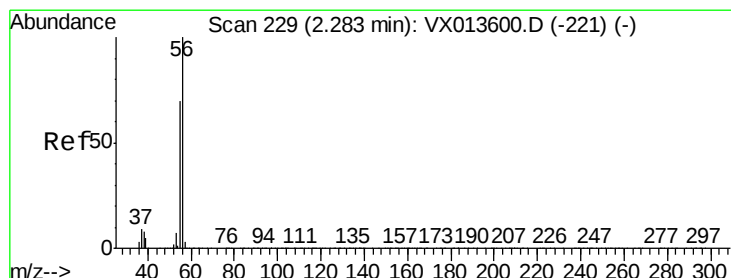
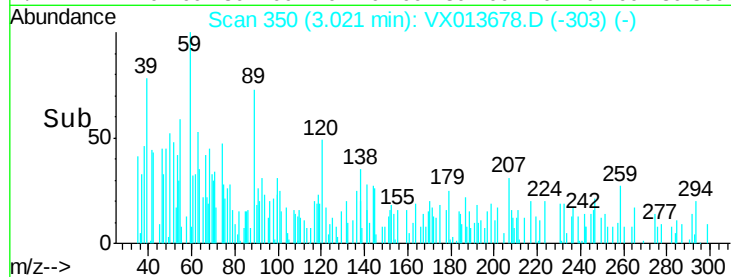
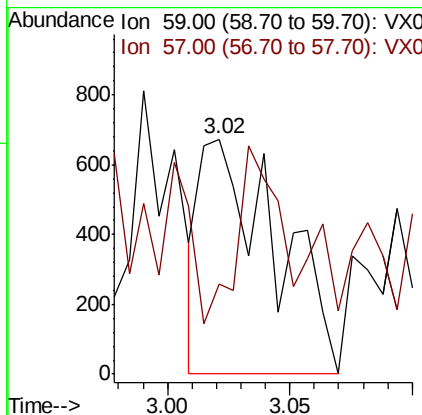
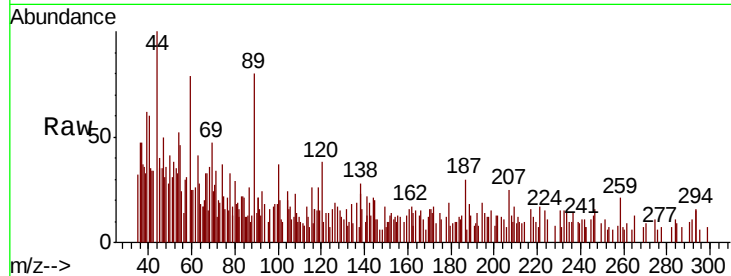


#11

Tert butyl alcohol
Concen: 0.746 ug/l
RT: 3.02 min Scan# 350
Delta R.T. -0.01 min
Lab File: VX013678.D
Acq: 28 Nov 2019 02:21

Instrument :
MSVOA_X
ClientSampleId :
GR-OF-20191121

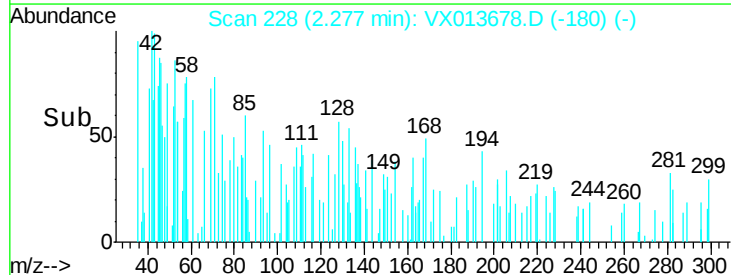
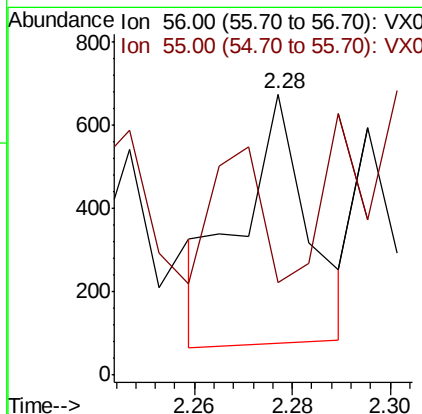
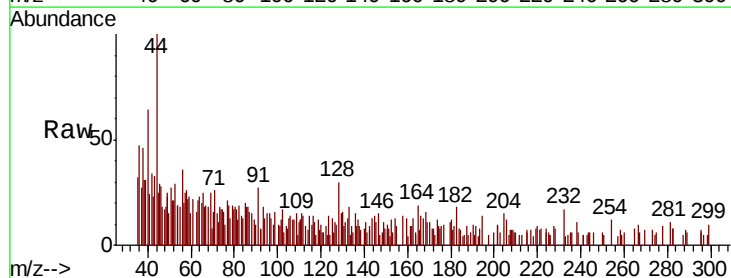
Tot Ion: 59 Resp: 1468
Ion Ratio Lower Upper
59 100
57 44.5 7.8 11.6#

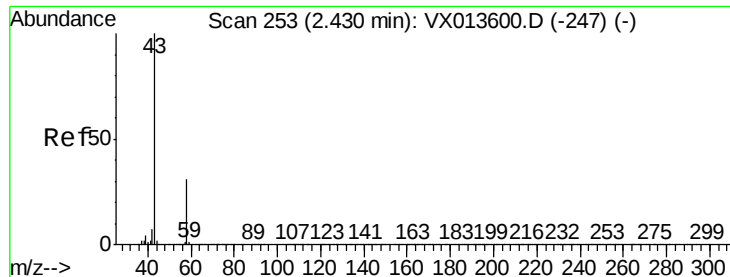


#13

Acrolein
Concen: 6.423 ug/l
RT: 2.28 min Scan# 228
Delta R.T. -0.01 min
Lab File: VX013678.D
Acq: 28 Nov 2019 02:21

Tgt Ion: 56 Resp: 565
Ion Ratio Lower Upper
56 100
55 53.1 56.2 84.4#

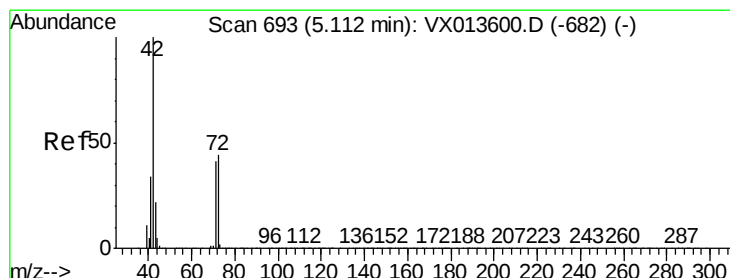
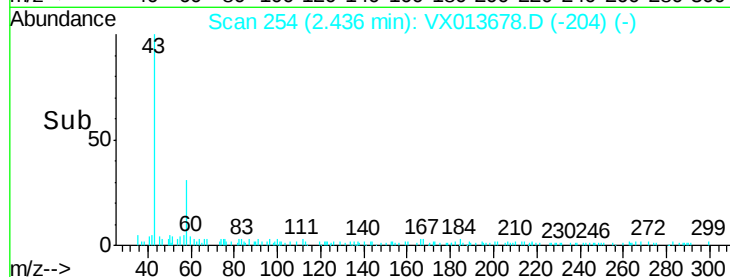
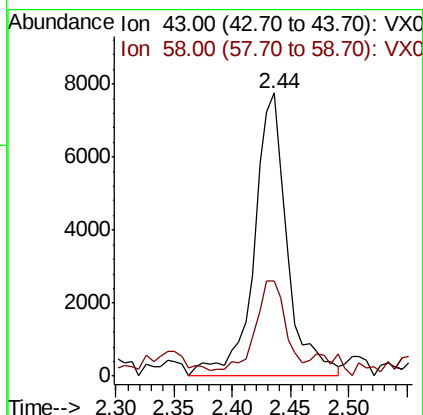
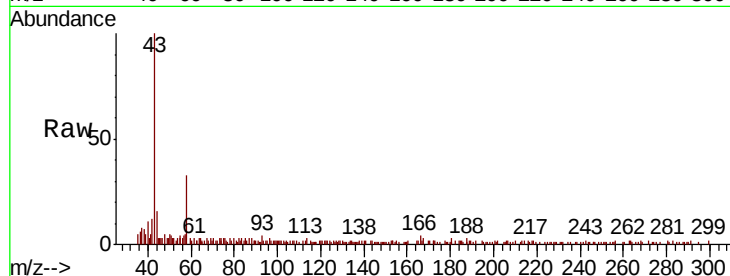




#16
Acetone
Concen: 3.912 ug/l
RT: 2.44 min Scan# 254
Delta R.T. 0.01 min
Lab File: VX013678.D
Acq: 28 Nov 2019 02:21

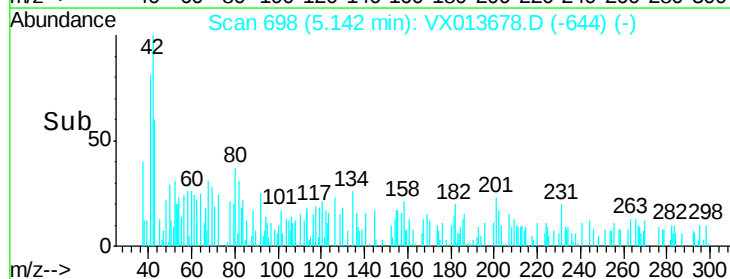
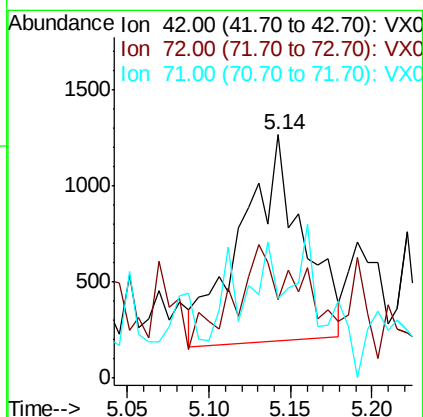
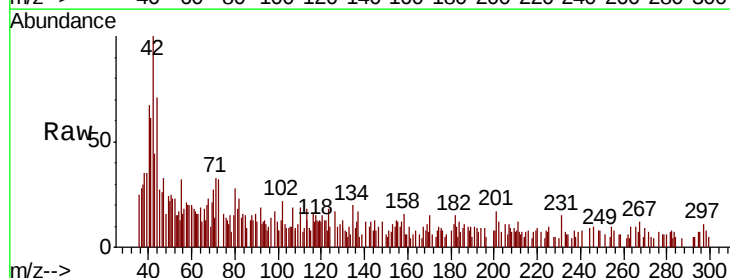
Instrument :
MSVOA_X
ClientSampleId :
GR-OF-20191121

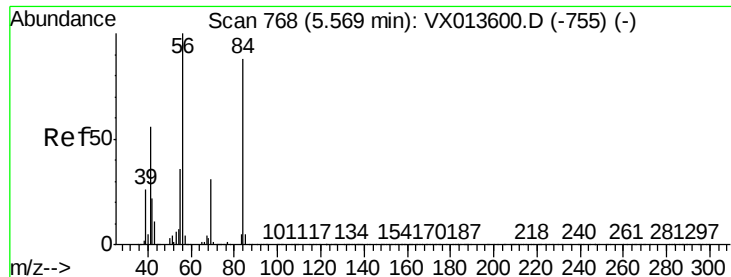
Tot Ion: 43 Resp: 15391
Ion Ratio Lower Upper
43 100
58 30.4 24.6 36.8



#29
Tetrahydrofuran
Concen: 0.768 ug/l
RT: 5.14 min Scan# 698
Delta R.T. 0.03 min
Lab File: VX013678.D
Acq: 28 Nov 2019 02:21

Tgt Ion: 42 Resp: 2770
Ion Ratio Lower Upper
42 100
72 16.1 36.3 54.5#
71 10.9 33.2 49.8#

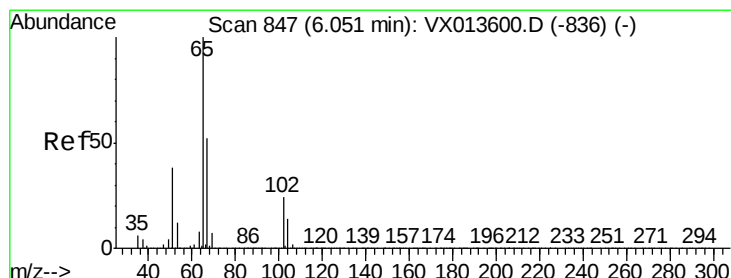
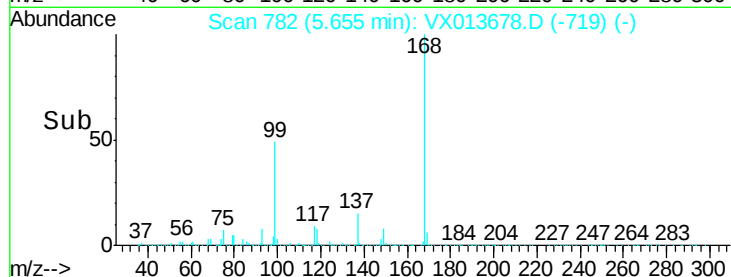
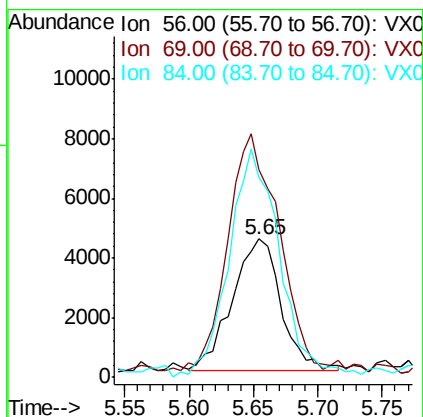
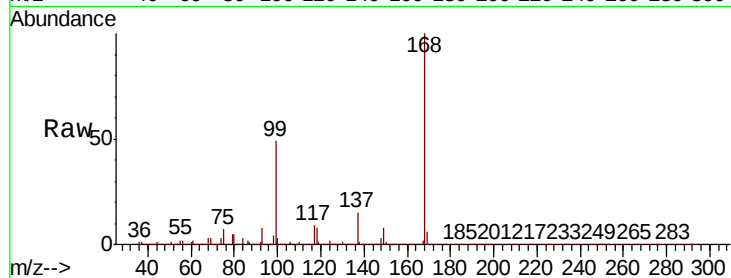




#31
Cyclohexane
Concen: 0.984 ug/l
RT: 5.65 min Scan# 782
Delta R.T. 0.09 min
Lab File: VX013678.D
Acq: 28 Nov 2019 02:21

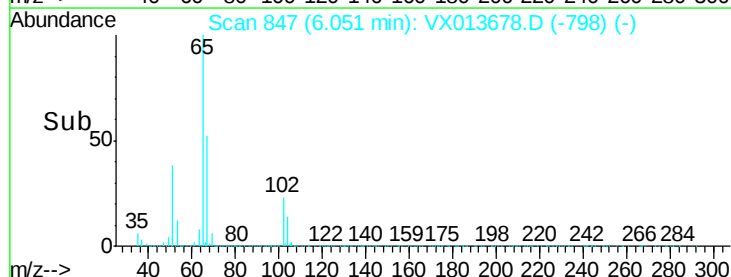
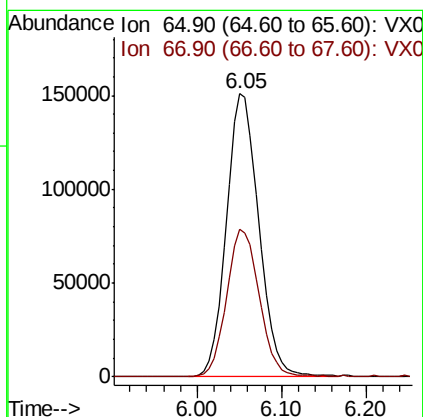
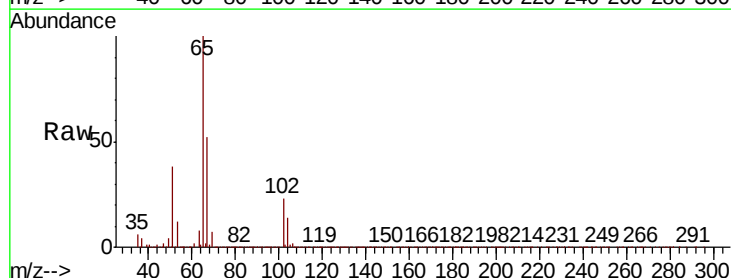
Instrument :
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ClientSampleId :
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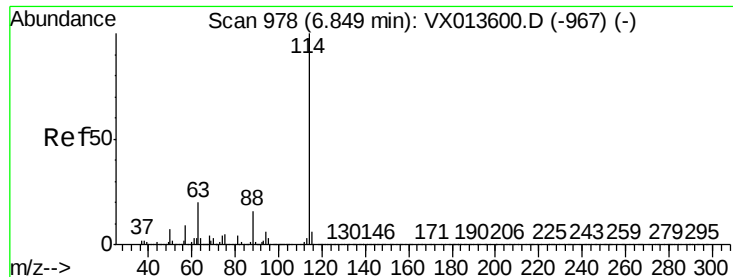
Tot Ion: 56 Resp: 11589
Ion Ratio Lower Upper
56 100
69 148.8 24.6 36.8#
84 151.6 70.0 105.0#



#33
1,2-Dichloroethane-d4
Concen: 49.317 ug/l
RT: 6.05 min Scan# 847
Delta R.T. 0.00 min
Lab File: VX013678.D
Acq: 28 Nov 2019 02:21

Tgt Ion: 65 Resp: 393003
Ion Ratio Lower Upper
65 100
67 52.8 0.0 104.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX013678.D

Acq: 28 Nov 2019 02:21

Instrument :

MSVOA_X

ClientSampleId :

GR-OF-20191121

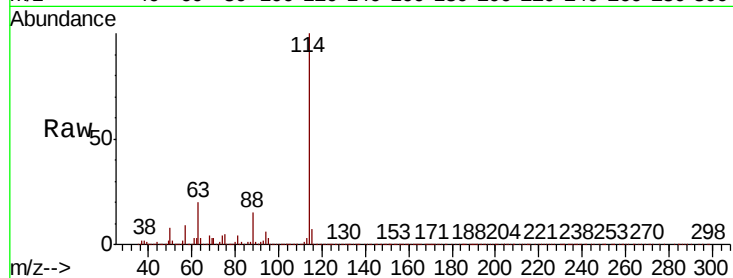
Tot Ion:114 Resp: 1093108

Ion Ratio Lower Upper

114 100

63 20.3 0.0 39.6

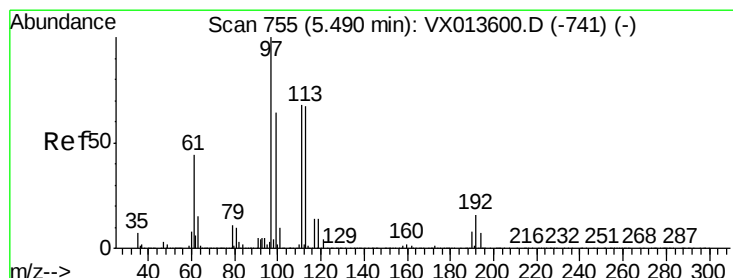
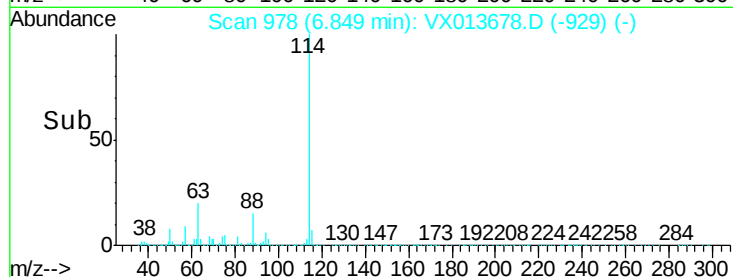
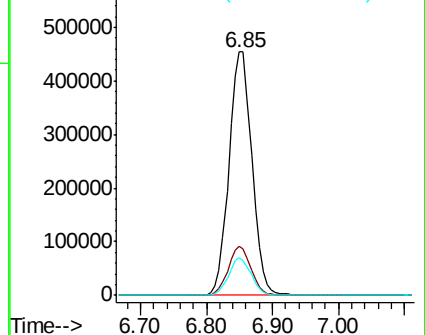
88 15.4 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 47.724 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX013678.D

Acq: 28 Nov 2019 02:21

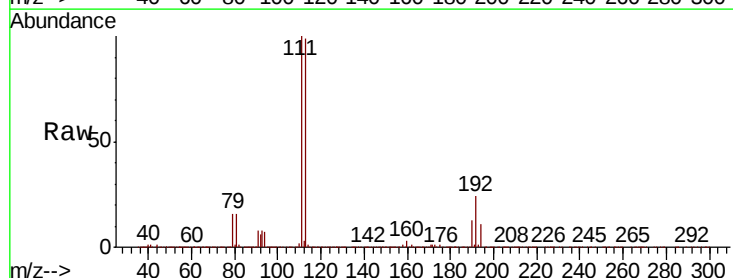
Tgt Ion:113 Resp: 322509

Ion Ratio Lower Upper

113 100

111 101.7 83.6 125.4

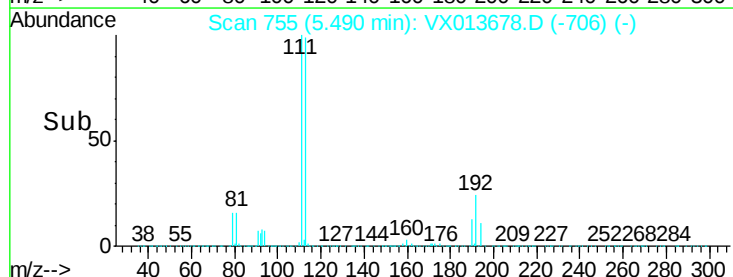
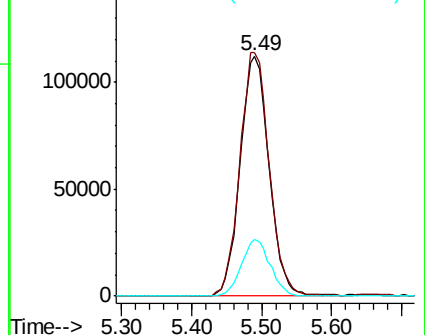
192 23.5 19.2 28.8

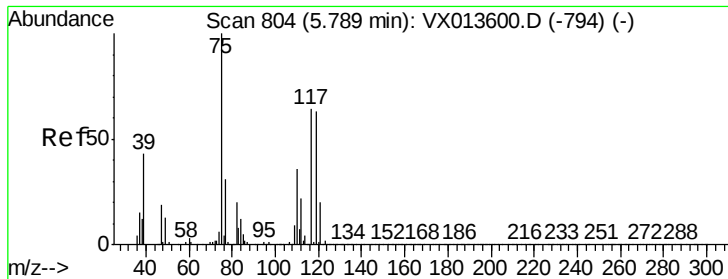


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

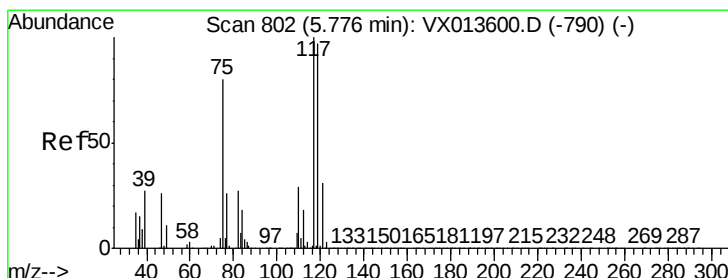
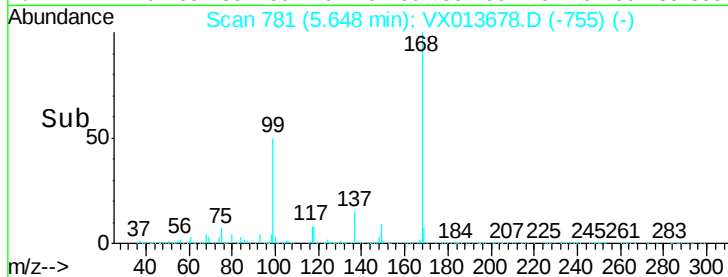
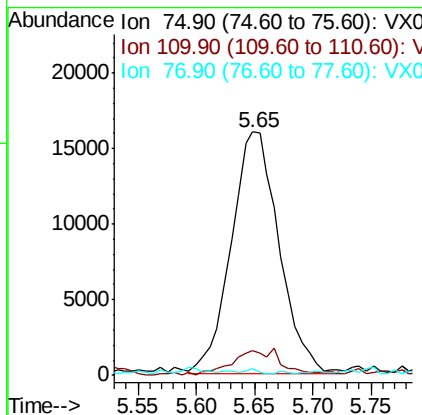
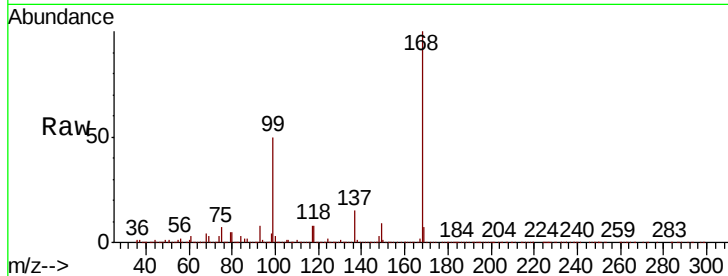




#36
 1,1-Dichloropropene
 Concen: 4.584 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.14 min
 Lab File: VX013678.D
 Acq: 28 Nov 2019 02:21

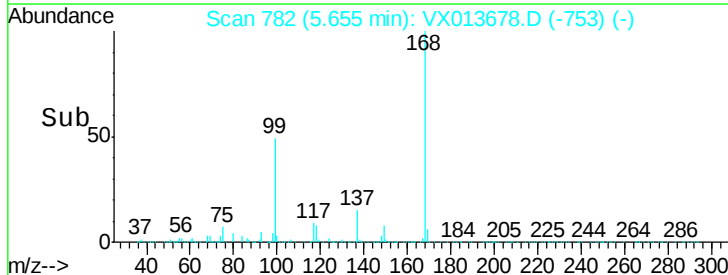
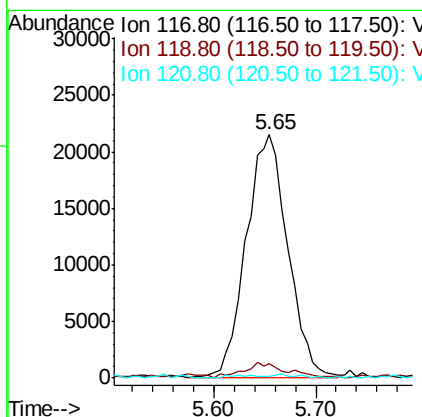
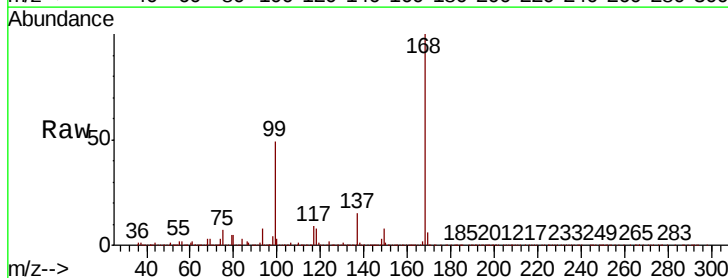
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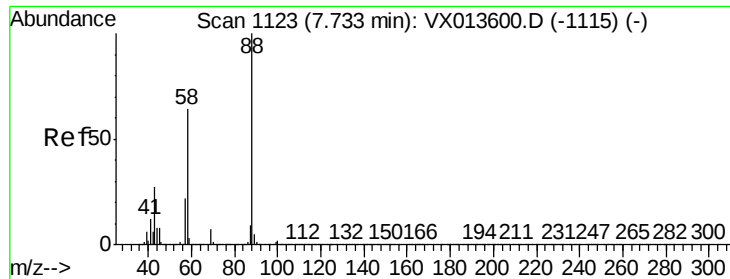
Tot Ion	Ratio	Lower	Upper
75	100		
110	0.0	18.1	54.1#
77	0.5	24.5	36.7#



#38
 Carbon Tetrachloride
 Concen: 6.629 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.12 min
 Lab File: VX013678.D
 Acq: 28 Nov 2019 02:21

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.1	77.5	116.3#
121	0.3	25.0	37.6#





#49

1,4-Dioxane

Concen: 1.365 ug/l

RT: 7.73 min Scan# 1123

Delta R.T. 0.00 min

Lab File: VX013678.D

Acq: 28 Nov 2019 02:21

Instrument :

MSVOA_X

ClientSampleId :

GR-OF-20191121

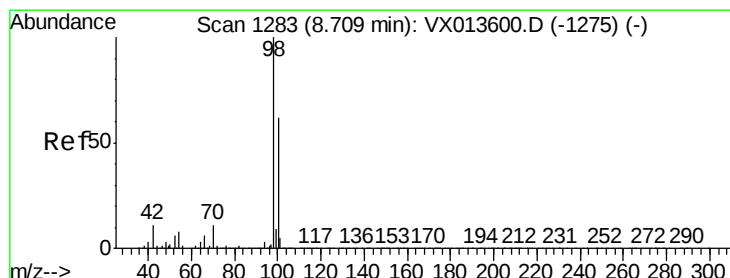
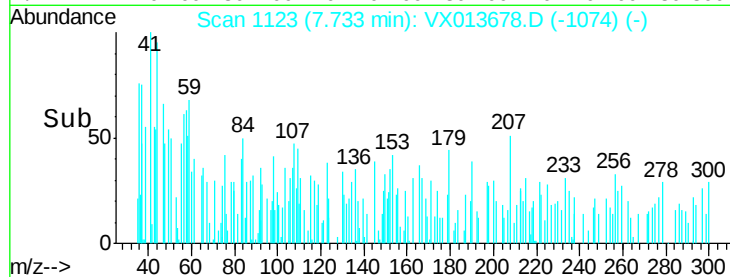
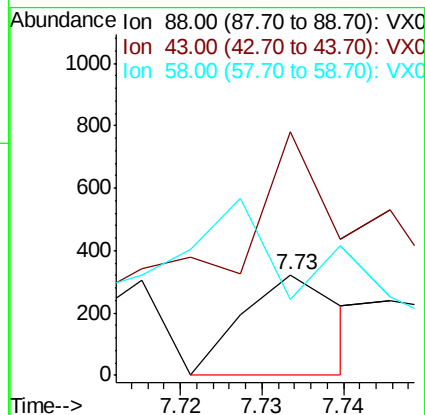
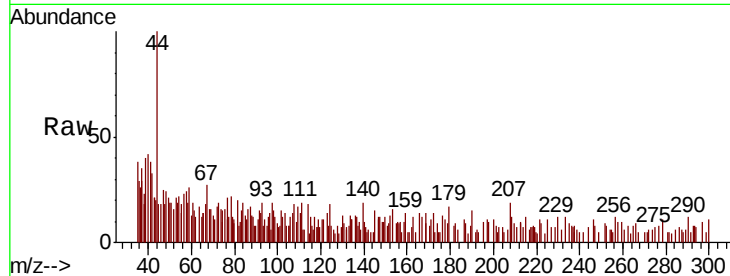
Tot Ion: 88 Resp: 272

Ion Ratio Lower Upper

88 100

43 119.9 25.8 38.6#

58 249.3 54.6 82.0#



#50

Toluene-d8

Concen: 48.787 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX013678.D

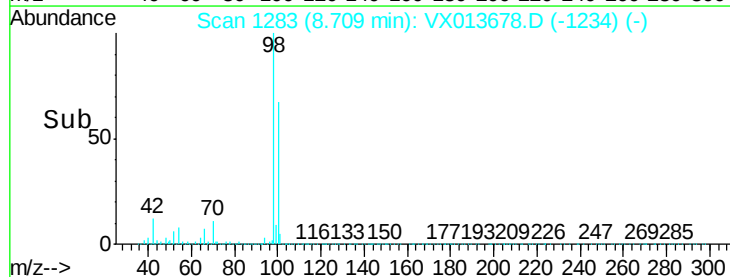
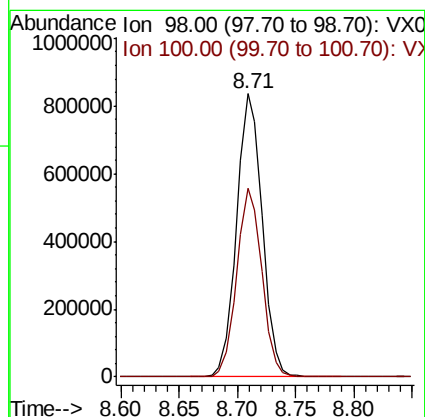
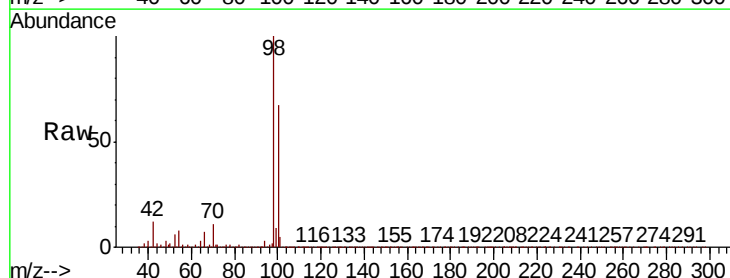
Acq: 28 Nov 2019 02:21

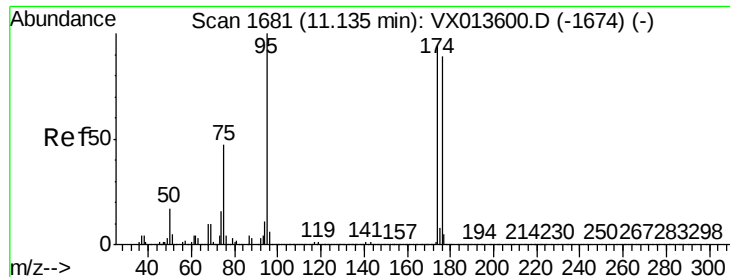
Tgt Ion: 98 Resp: 1284502

Ion Ratio Lower Upper

98 100

100 65.7 53.1 79.7

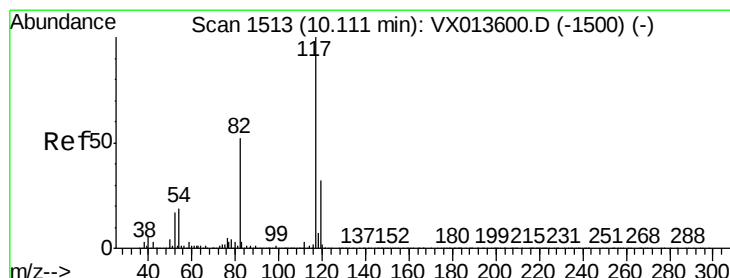
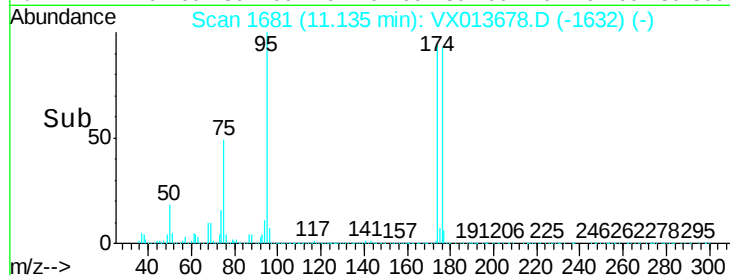
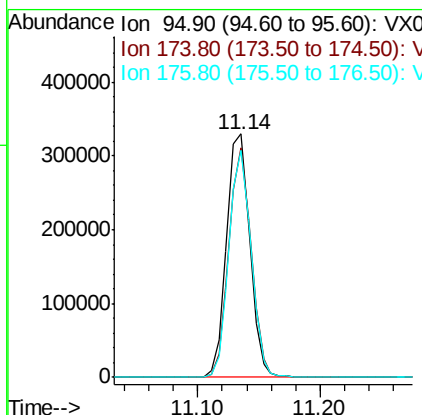
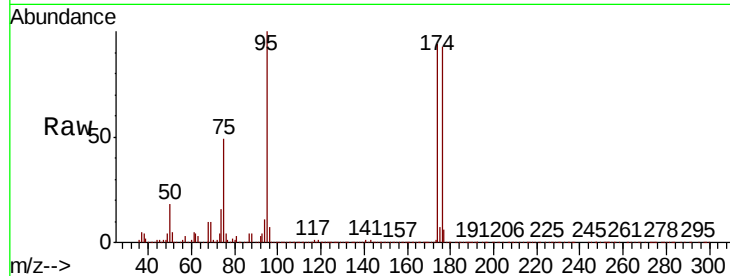




#62
4-Bromofluorobenzene
Concen: 45.758 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VX013678.D
Acq: 28 Nov 2019 02:21

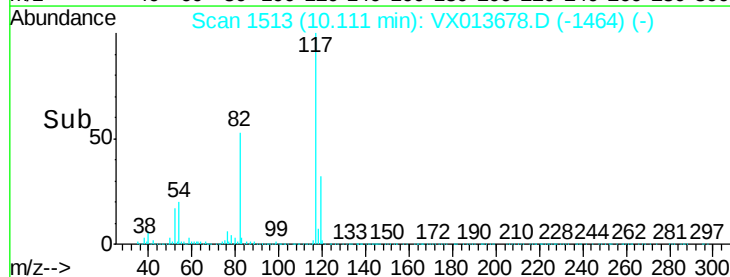
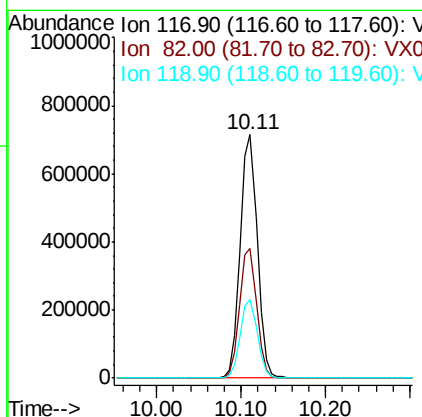
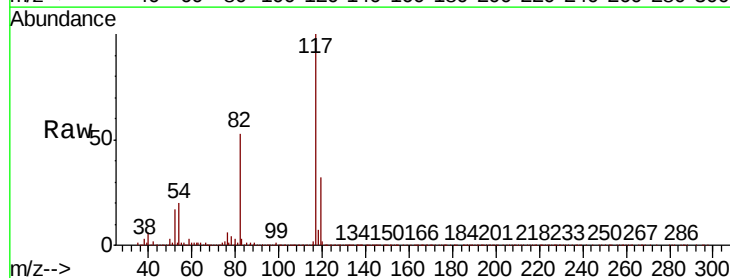
Instrument :
MSVOA_X
ClientSampleId :
GR-OF-20191121

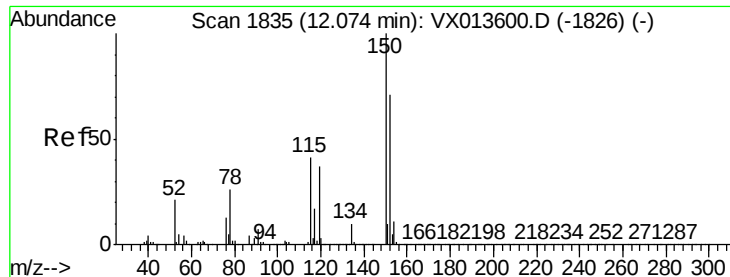
Tot Ion	Ratio	Lower	Upper
95	100		
174	90.3	0.0	180.0
176	88.5	0.0	173.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX013678.D
Acq: 28 Nov 2019 02:21

Tgt Ion	Ratio	Lower	Upper
117	100		
82	53.1	41.8	62.8
119	32.4	25.8	38.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX013678.D

Acq: 28 Nov 2019 02:21

Instrument :

MSVOA_X

ClientSampleId :

GR-OF-20191121

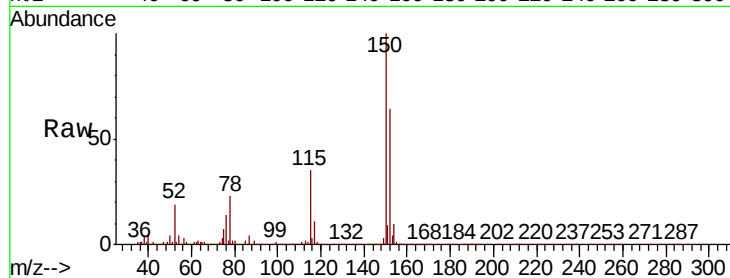
Tot Ion:152 Resp: 443199

Ion Ratio Lower Upper

152 100

115 54.6 38.4 115.1

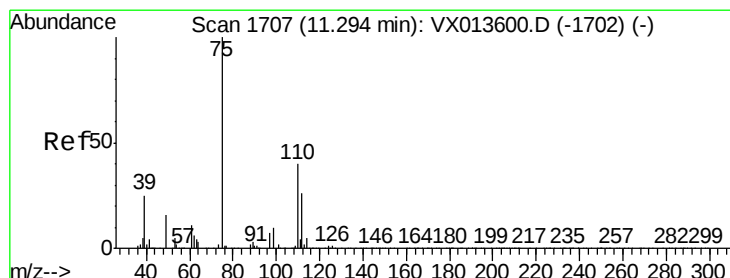
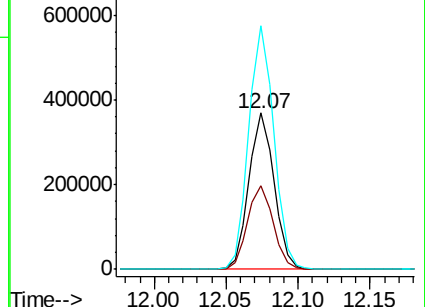
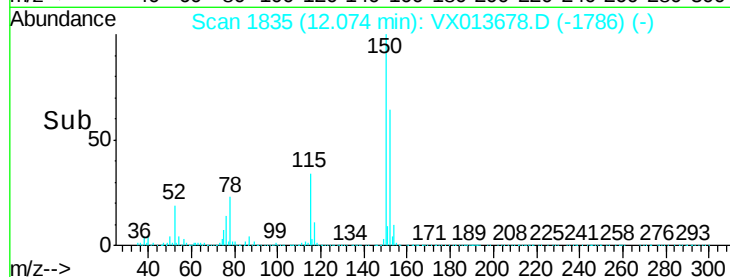
150 156.2 0.0 346.8



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



#76

1,2,3-Trichloropropane

Concen: 21.597 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX013678.D

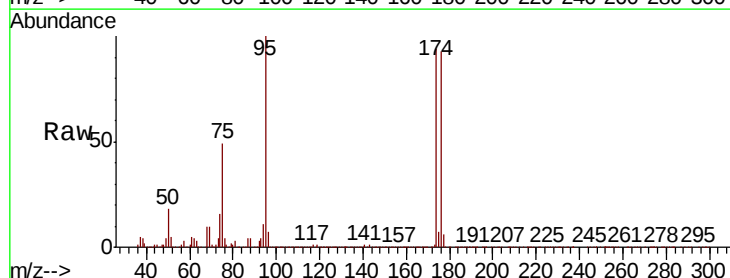
Acq: 28 Nov 2019 02:21

Tgt Ion: 75 Resp: 215282

Ion Ratio Lower Upper

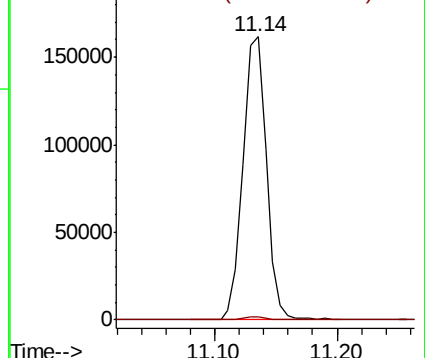
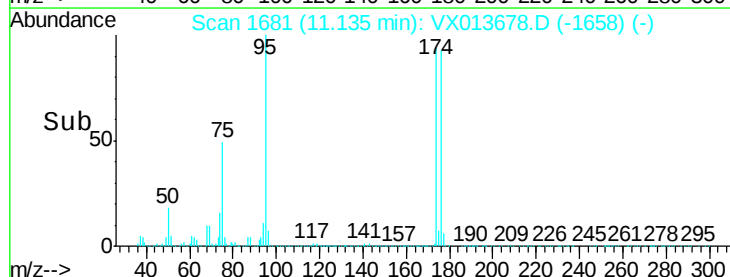
75 100

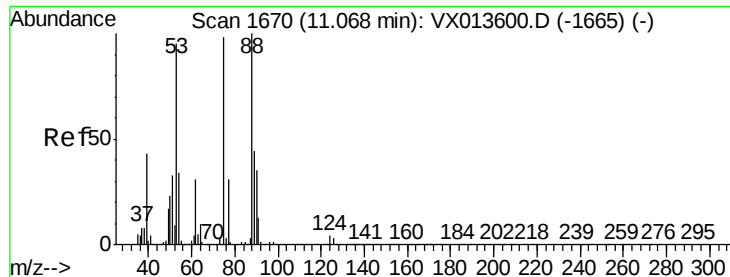
77 1.4 19.1 57.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 59.084 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX013678.D

Acq: 28 Nov 2019 02:21

Instrument :

MSVOA_X

ClientSampleId :

GR-OF-20191121

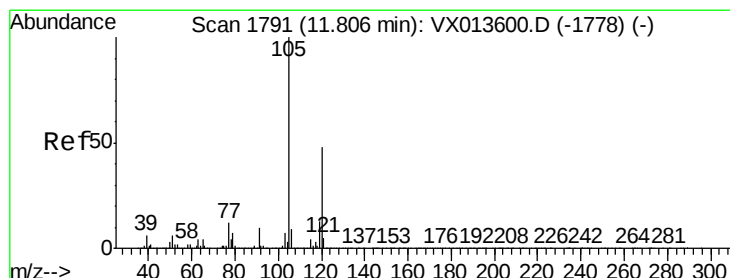
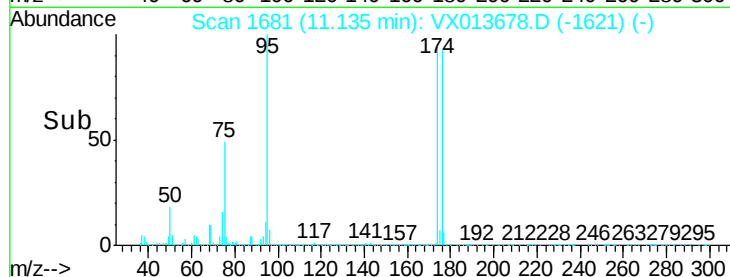
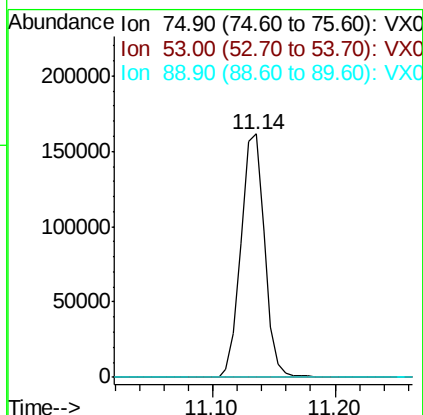
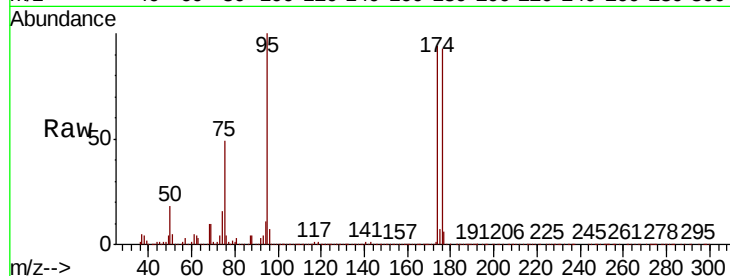
Tot Ion: 75 Resp: 215282

Ion Ratio Lower Upper

75 100

53 0.2 78.2 117.2#

89 0.1 35.4 53.2#



#84

1,2,4-Trimethylbenzene

Concen: 0.402 ug/l

RT: 11.81 min Scan# 1791

Delta R.T. 0.00 min

Lab File: VX013678.D

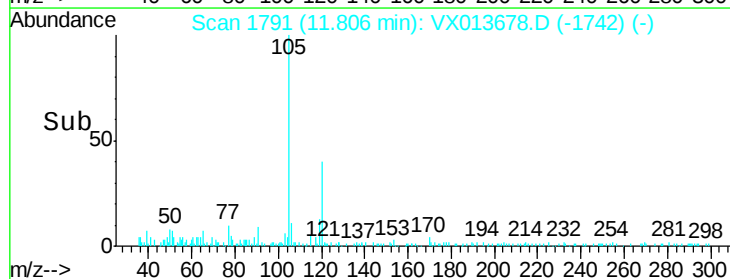
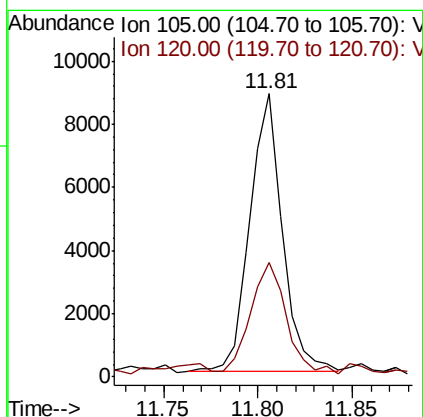
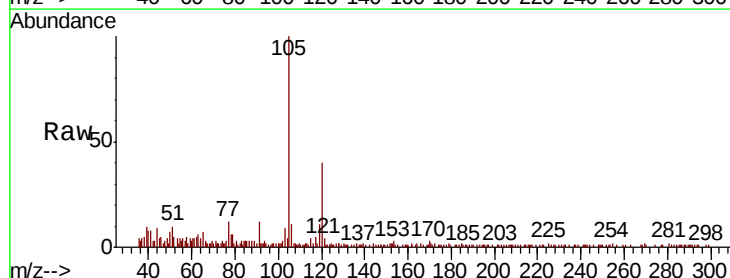
Acq: 28 Nov 2019 02:21

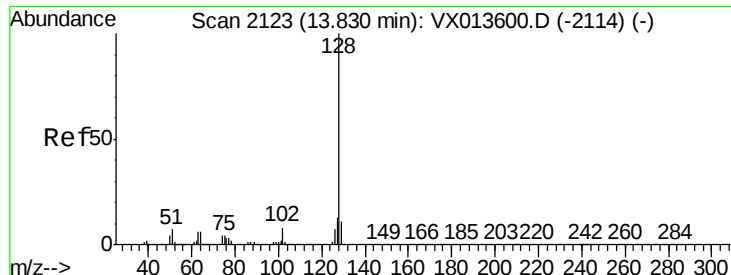
Tgt Ion: 105 Resp: 10397

Ion Ratio Lower Upper

105 100

120 44.3 23.1 69.3





#95

Naphthalene

Concen: 2.643 ug/l

RT: 13.83 min Scan# 2123

Delta R.T. 0.00 min

Lab File: VX013678.D

Acq: 28 Nov 2019 02:21

Instrument :

MSVOA_X

ClientSampleId :

GR-OF-20191121

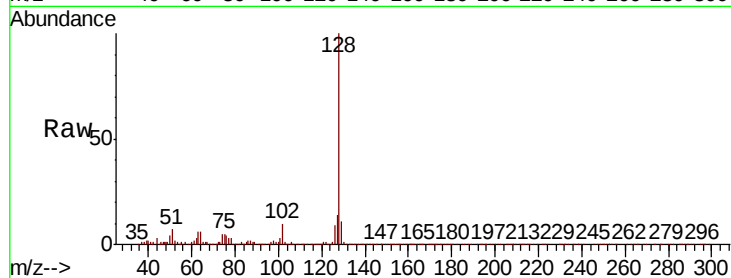
Tot Ion:128 Resp: 79357

Ion Ratio Lower Upper

128 100

127 14.3 10.3 15.5

129 10.3 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

