

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100919\
 Data File : VX012949.D
 Acq On : 09 Oct 2019 17:42
 Operator : JC/SP
 Sample : K5215-13
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 30361

Quant Time: Oct 10 01:38:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X100819W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 09 01:51:23 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	172660	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	291191	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	250886	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	100095	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	114148	52.89	ug/l	0.00
Spiked Amount			Recovery	=	105.78%	
35) Dibromofluoromethane	5.49	113	88235	52.79	ug/l	0.00
Spiked Amount			Recovery	=	105.58%	
50) Toluene-d8	8.71	98	340114	52.18	ug/l	0.00
Spiked Amount			Recovery	=	104.36%	
62) 4-Bromofluorobenzene	11.14	95	118086	46.62	ug/l	0.00
Spiked Amount			Recovery	=	93.24%	

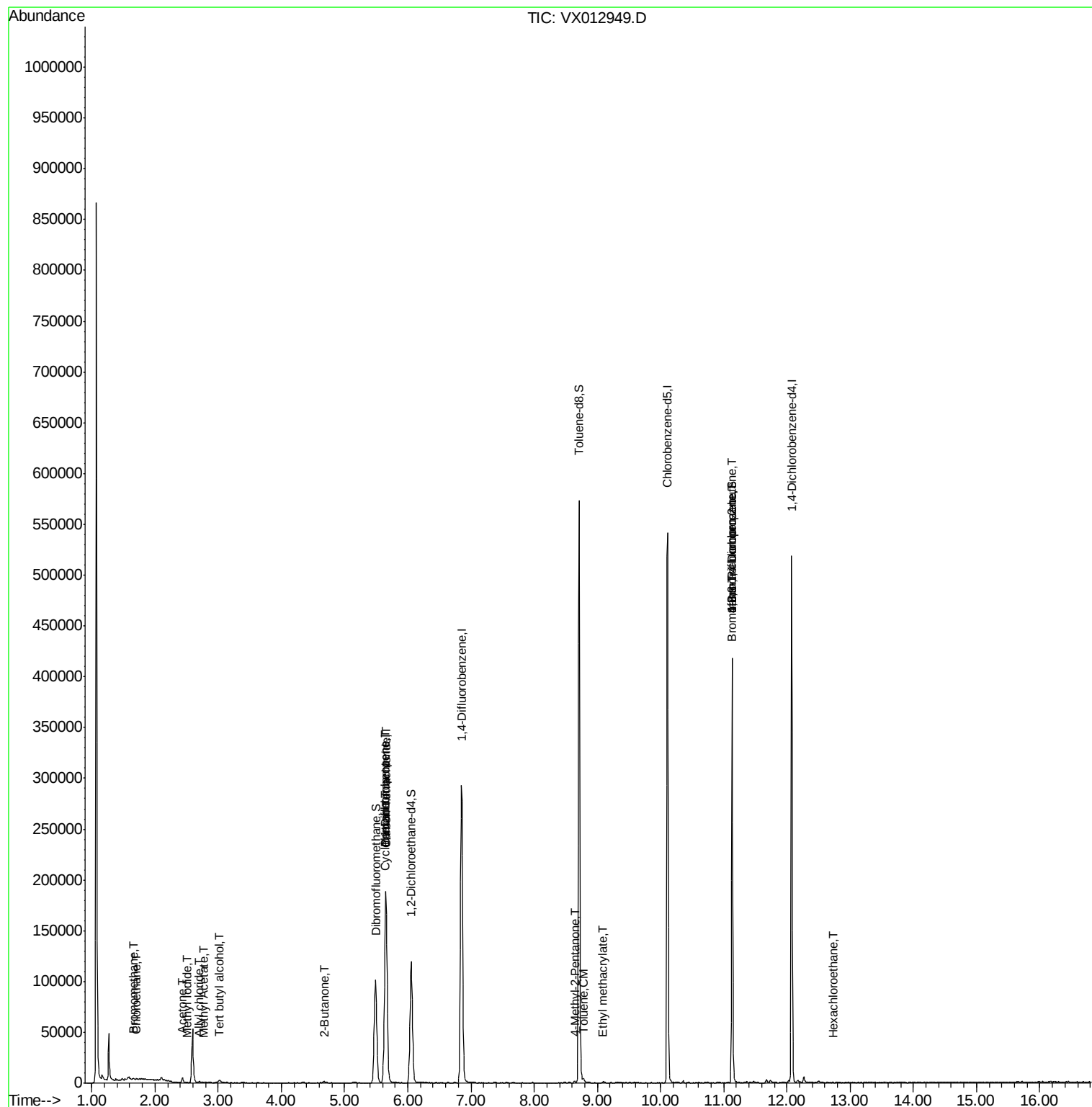
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	310	0.377	ug/l #	65
6) Chloroethane	1.70	64	810	1.033	ug/l #	43
10) Methyl Iodide	2.50	142	23	5.092	ug/l #	40
11) Tert butyl alcohol	3.03	59	2729	4.770	ug/l #	87
14) Allyl chloride	2.70	41	920	0.296	ug/l #	58
16) Acetone	2.44	43	4802	4.222	ug/l	99
18) Methyl Acetate	2.76	43	638	0.237	ug/l #	51
25) 2-Butanone	4.68	43	791	0.501	ug/l #	49
31) Cyclohexane	5.64	56	4080	1.303	ug/l #	34
36) 1,1-Dichloropropene	5.65	75	13808	5.393	ug/l #	51
38) Carbon Tetrachloride	5.66	117	17906	7.186	ug/l #	17
51) 4-Methyl-2-Pentanone	8.64	43	1086	0.379	ug/l #	85
52) Toluene	8.78	92	1132	0.234	ug/l	90
56) Ethyl methacrylate	9.09	69	213	1.891	ug/l #	65
71) Bromoform	11.12	173	101	3.197	ug/l #	29
76) 1,2,3-Trichloropropane	11.13	75	59481	26.792	ug/l #	32
81) trans-1,4-Dichloro-2-buten	11.13	75	59481	67.352	ug/l #	10
90) Hexachloroethane	12.74	117	58	2.165	ug/l #	13

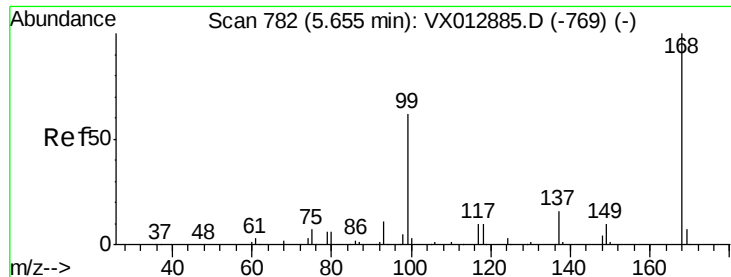
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.01 min

Lab File: VX012949.D

Acq: 09 Oct 2019 17:42

Instrument :

MSVOA_X

ClientSampleId :

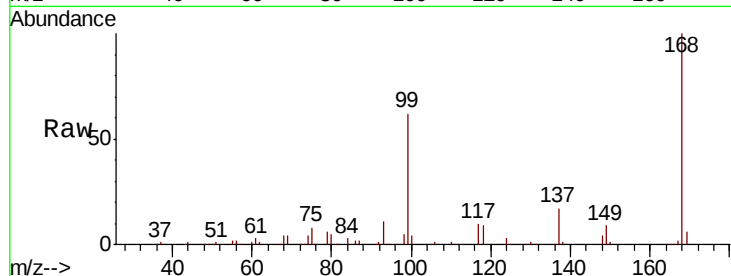
30361

Tot Ion:168 Resp: 172660

Ion Ratio Lower Upper

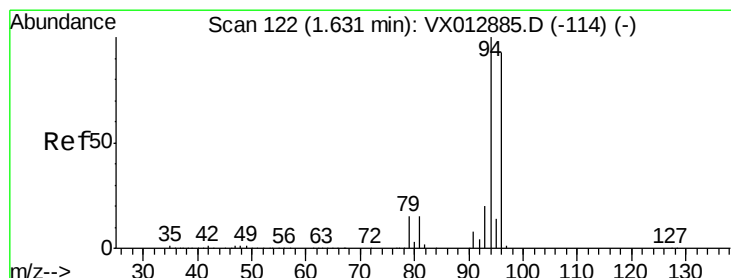
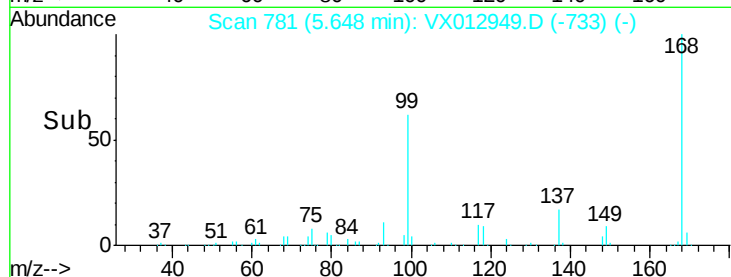
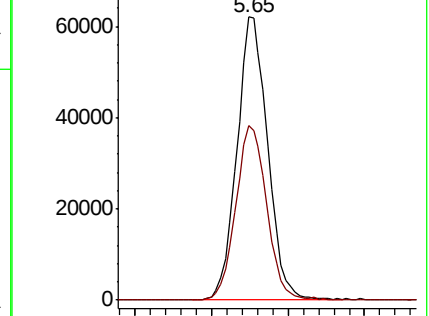
168 100

99 61.7 49.4 74.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.377 ug/l

RT: 1.65 min Scan# 125

Delta R.T. 0.02 min

Lab File: VX012949.D

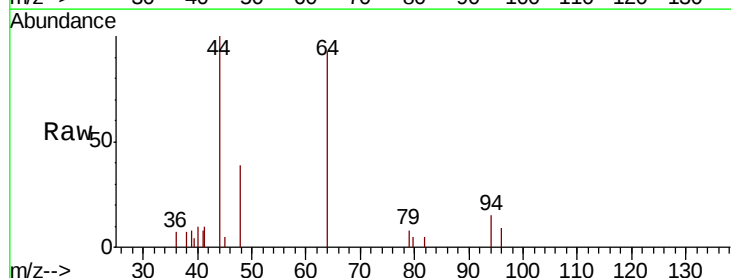
Acq: 09 Oct 2019 17:42

Tgt Ion: 94 Resp: 310

Ion Ratio Lower Upper

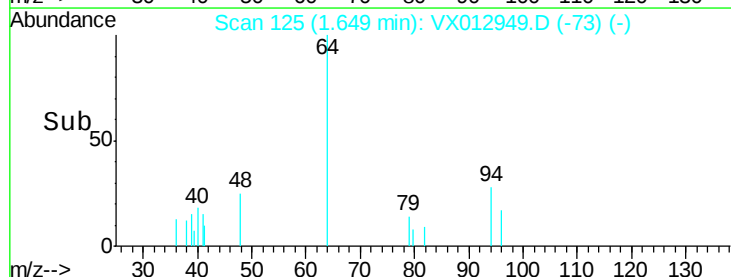
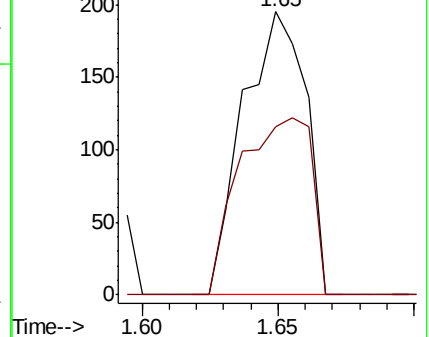
94 100

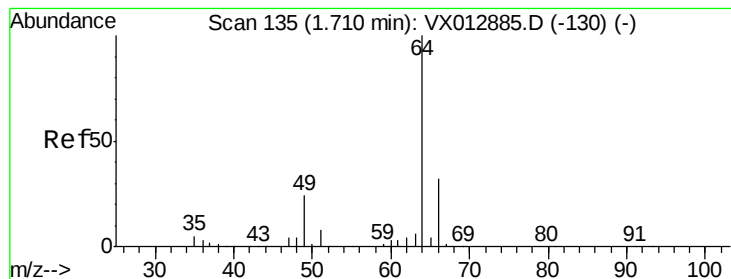
96 59.5 74.7 112.1#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 1.033 ug/l

RT: 1.70 min Scan# 134

Delta R.T. -0.01 min

Lab File: VX012949.D

Acq: 09 Oct 2019 17:42

Instrument :

MSVOA_X

ClientSampleId :

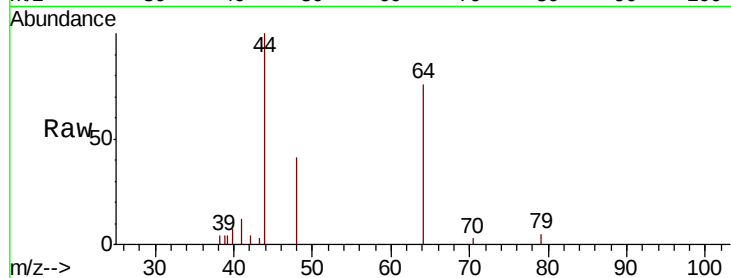
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Tot Ion: 64 Resp: 810

Ion Ratio Lower Upper

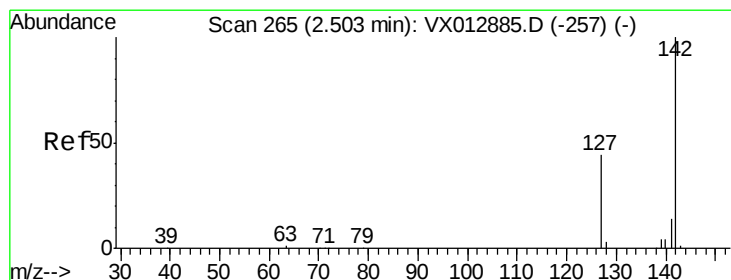
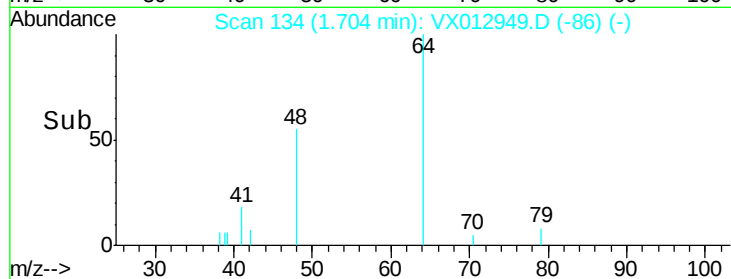
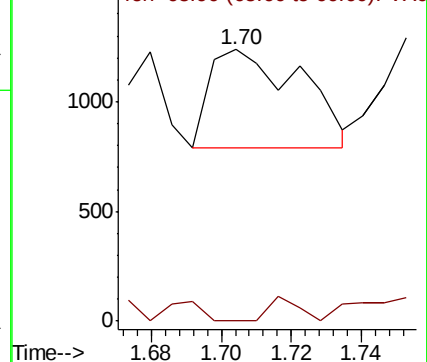
64 100

66 0.0 25.6 38.4#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 5.092 ug/l

RT: 2.50 min Scan# 265

Delta R.T. 0.00 min

Lab File: VX012949.D

Acq: 09 Oct 2019 17:42

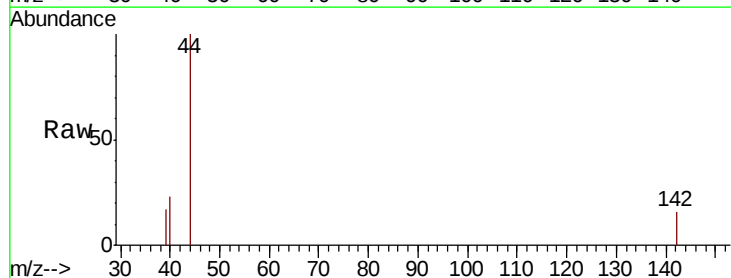
Tgt Ion: 142 Resp: 23

Ion Ratio Lower Upper

142 100

127 0.0 34.9 52.3#

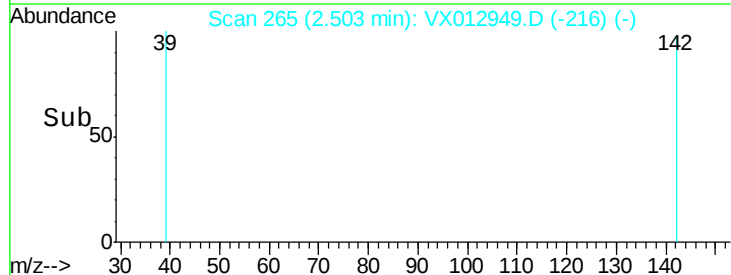
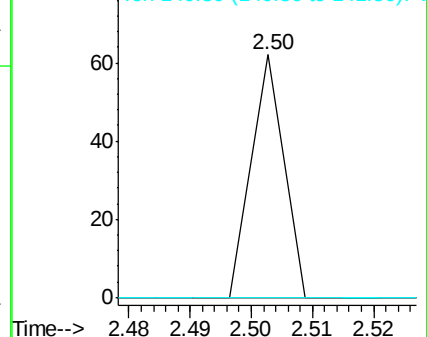
141 0.0 11.6 17.4#

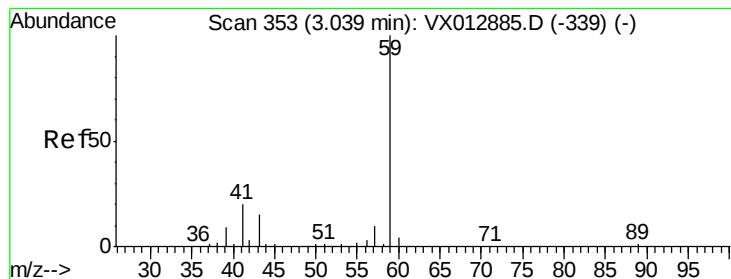


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



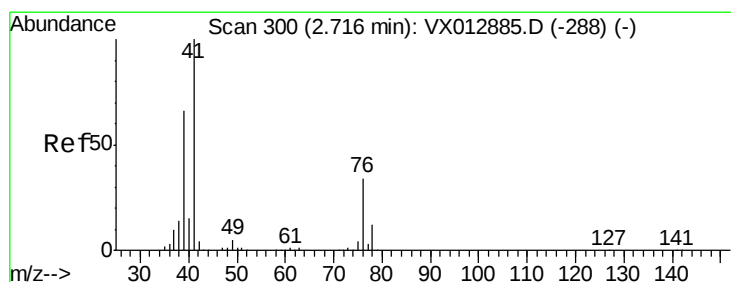
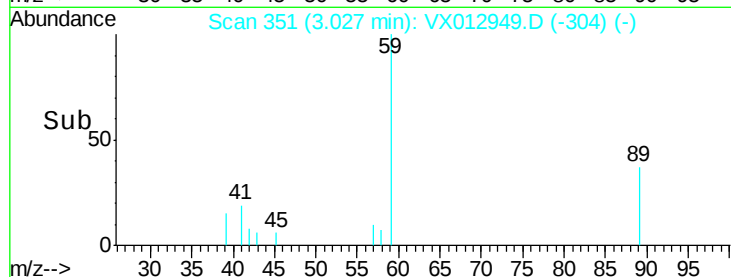
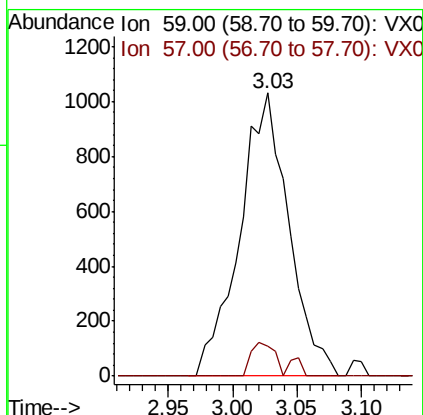
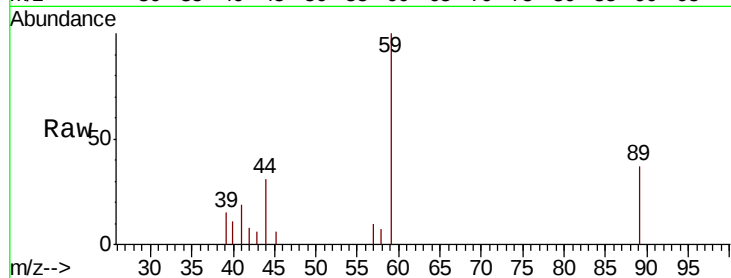


#11

Tert butyl alcohol
 Concen: 4.770 ug/l
 RT: 3.03 min Scan# 351
 Delta R.T. -0.01 min
 Lab File: VX012949.D
 Acq: 09 Oct 2019 17:42

Instrument :
 MSVOA_X
 ClientSampleId :
 30361

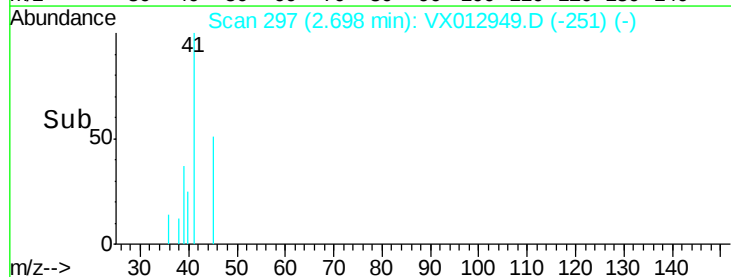
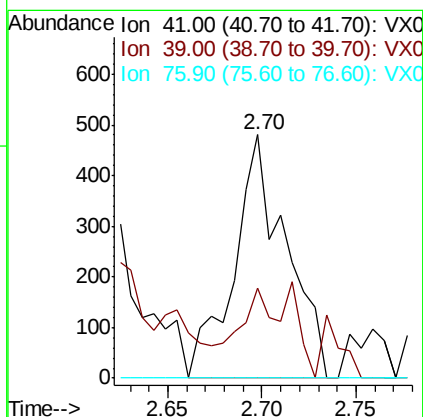
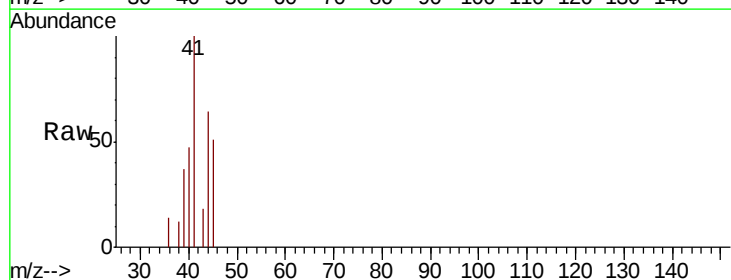
Tot Ion: 59 Resp: 2729
 Ion Ratio Lower Upper
 59 100
 57 5.5 8.3 12.5#

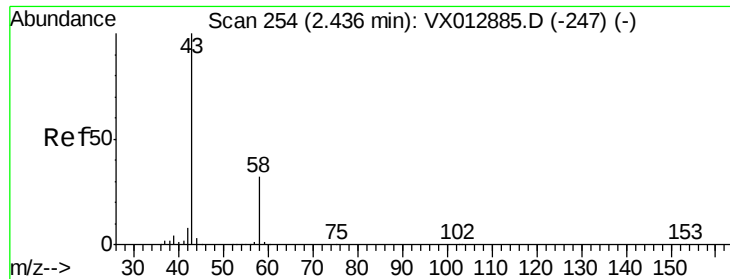


#14

Allyl chloride
 Concen: 0.296 ug/l
 RT: 2.70 min Scan# 297
 Delta R.T. -0.02 min
 Lab File: VX012949.D
 Acq: 09 Oct 2019 17:42

Tgt Ion: 41 Resp: 920
 Ion Ratio Lower Upper
 41 100
 39 37.5 51.0 76.6#
 76 0.0 26.2 39.4#





#16

Acetone

Concen: 4.222 ug/l

RT: 2.44 min Scan# 254

Delta R.T. -0.00 min

Lab File: VX012949.D

Acq: 09 Oct 2019 17:42

Instrument :

MSVOA_X

ClientSampled :

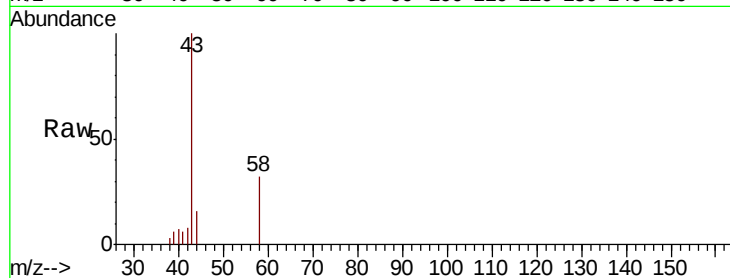
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Tot Ion: 43 Resp: 4802

Ion Ratio Lower Upper

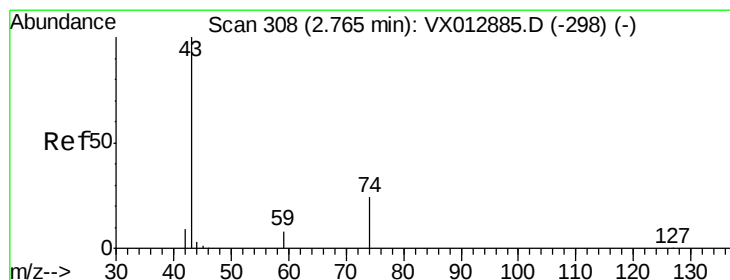
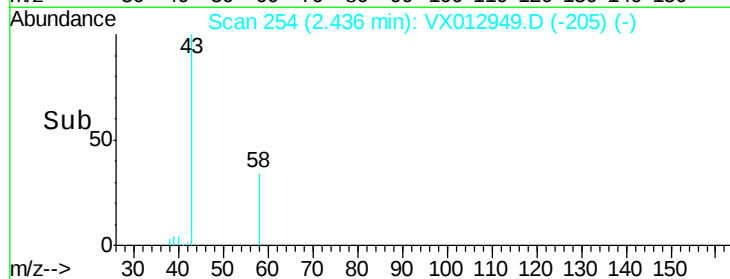
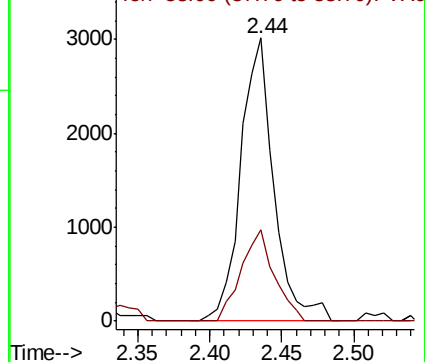
43 100

58 32.1 25.4 38.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 0.237 ug/l

RT: 2.76 min Scan# 308

Delta R.T. -0.00 min

Lab File: VX012949.D

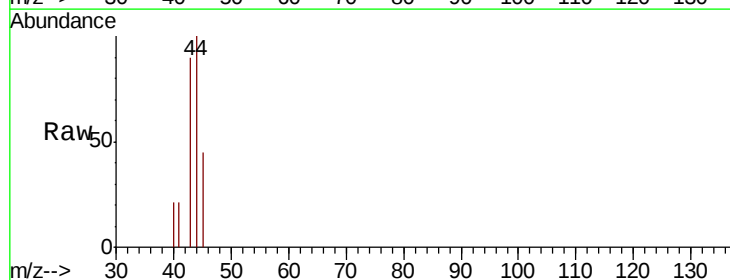
Acq: 09 Oct 2019 17:42

Tgt Ion: 43 Resp: 638

Ion Ratio Lower Upper

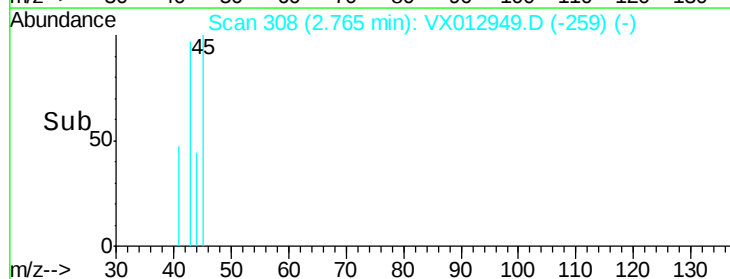
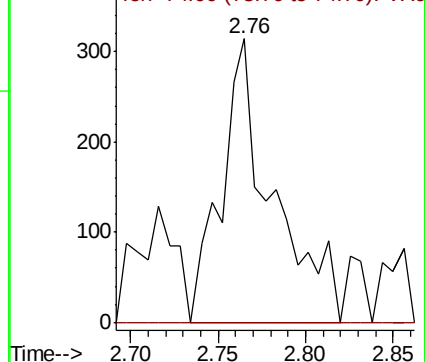
43 100

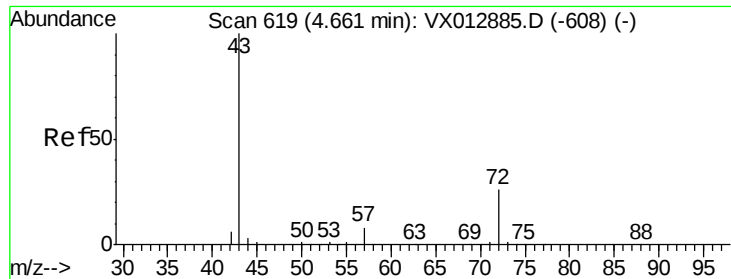
74 0.0 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

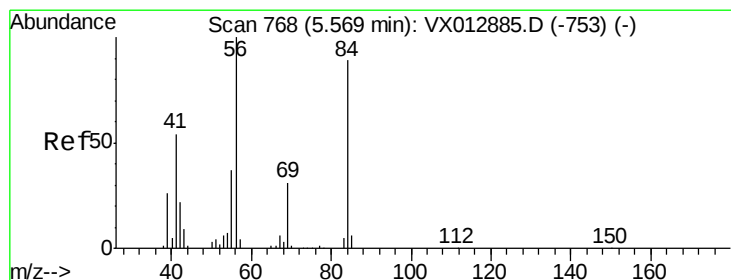
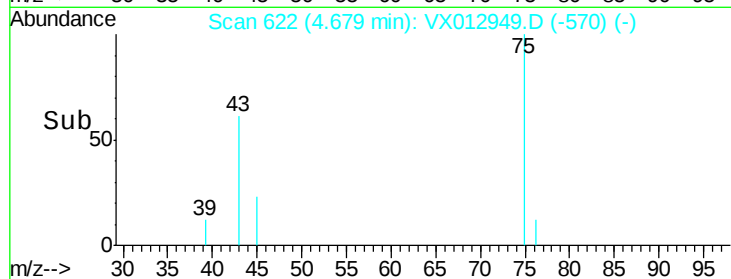
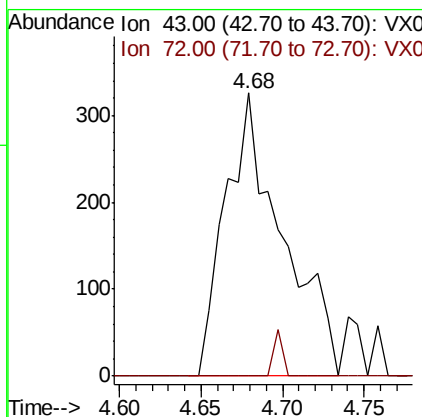
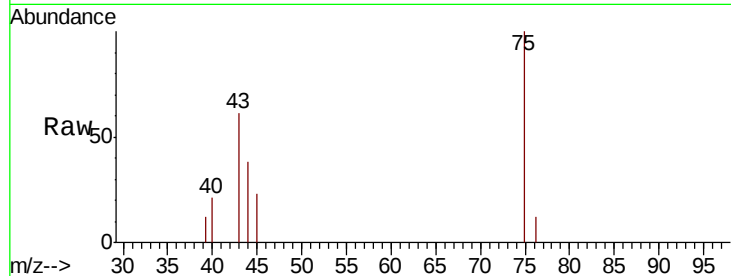




#25
2-Butanone
Concen: 0.501 ug/l
RT: 4.68 min Scan# 622
Delta R.T. 0.02 min
Lab File: VX012949.D
Acq: 09 Oct 2019 17:42

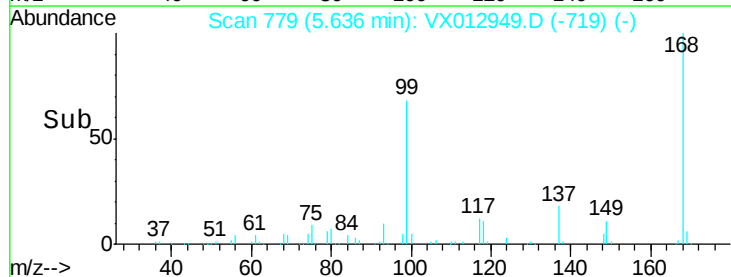
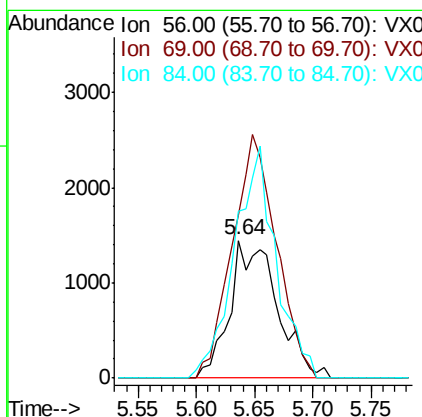
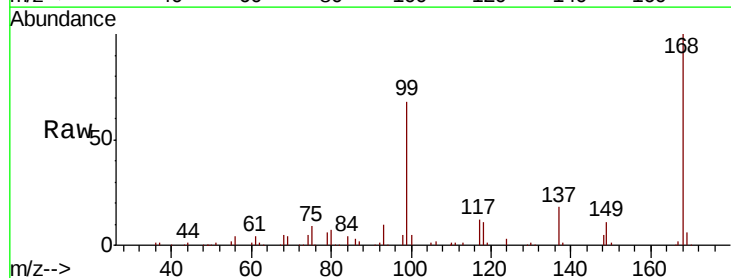
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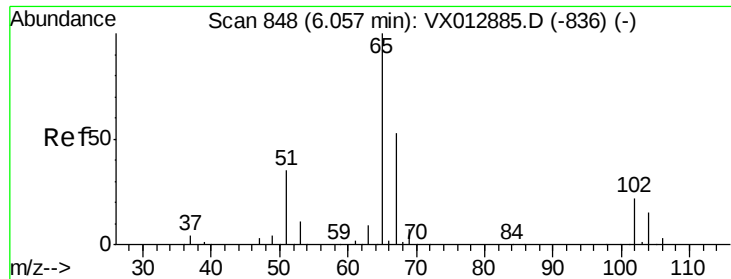
Tot Ion: 43 Resp: 791
Ion Ratio Lower Upper
43 100
72 0.0 21.0 31.6#



#31
Cyclohexane
Concen: 1.303 ug/l
RT: 5.64 min Scan# 779
Delta R.T. 0.07 min
Lab File: VX012949.D
Acq: 09 Oct 2019 17:42

Tgt Ion: 56 Resp: 4080
Ion Ratio Lower Upper
56 100
69 118.1 25.2 37.8#
84 121.2 71.3 106.9#

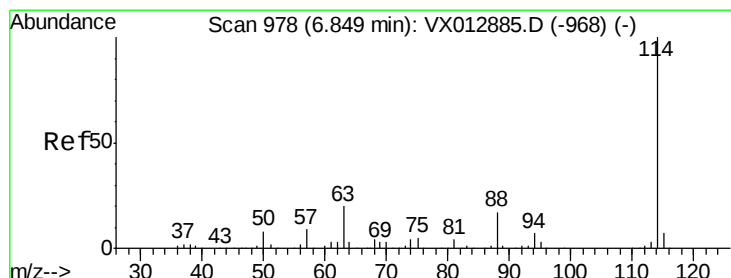
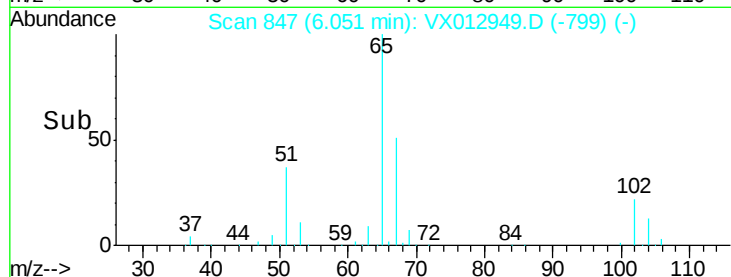
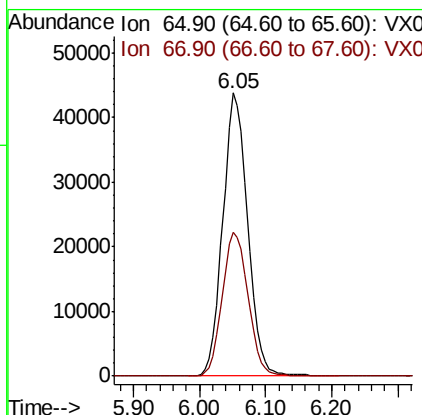
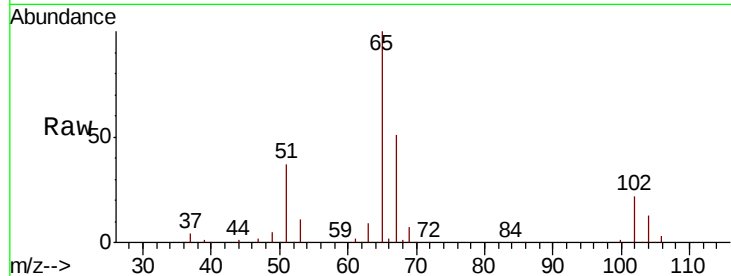




#33
 1,2-Dichloroethane-d4
 Concen: 52.895 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. -0.01 min
 Lab File: VX012949.D
 Acq: 09 Oct 2019 17:42

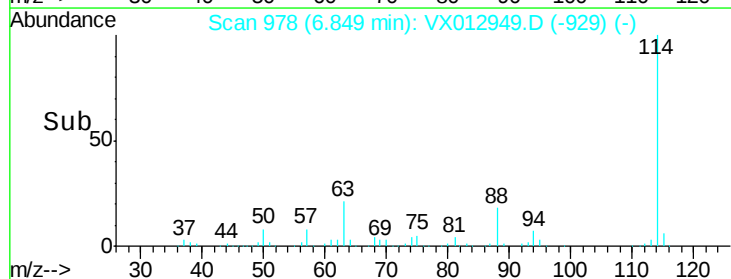
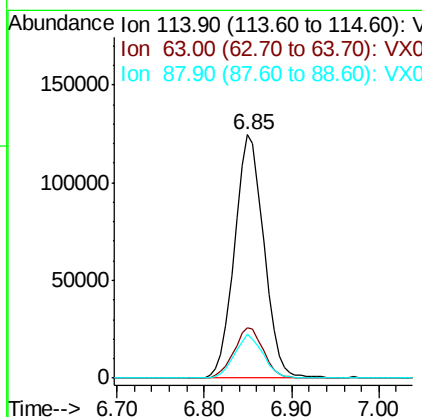
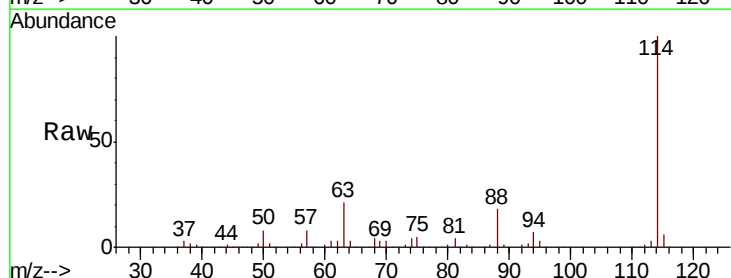
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 MSVOA_X
 ClientSampleId :
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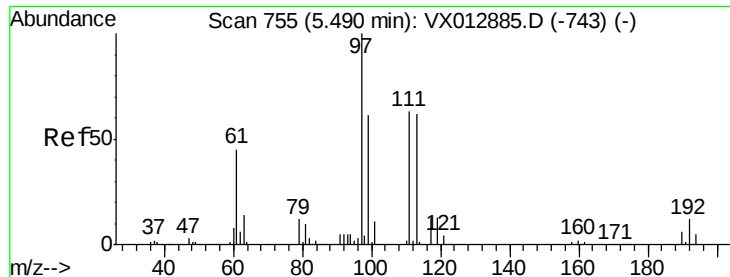
Tot Ion: 65 Resp: 114148
 Ion Ratio Lower Upper
 65 100
 67 52.7 0.0 104.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. -0.00 min
 Lab File: VX012949.D
 Acq: 09 Oct 2019 17:42

Tgt Ion: 114 Resp: 291191
 Ion Ratio Lower Upper
 114 100
 63 20.9 0.0 40.8
 88 18.0 0.0 33.8





#35

Dibromofluoromethane

Concen: 52.795 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX012949.D

Acq: 09 Oct 2019 17:42

Instrument :

MSVOA_X

ClientSampleId :

30361

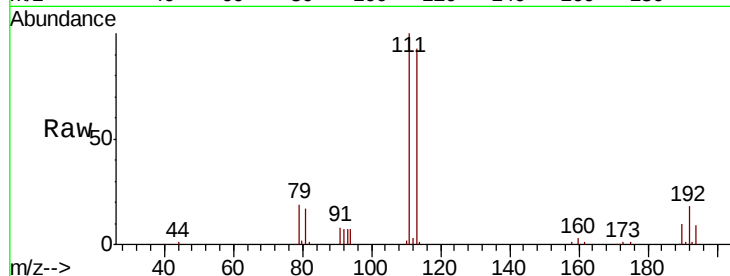
Tot Ion:113 Resp: 88235

Ion Ratio Lower Upper

113 100

111 102.5 83.2 124.8

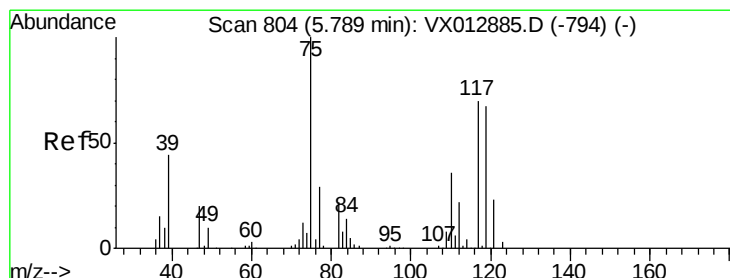
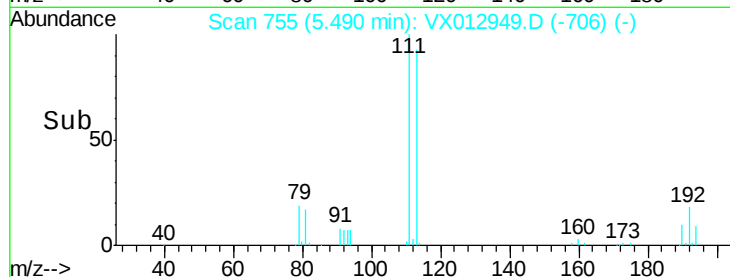
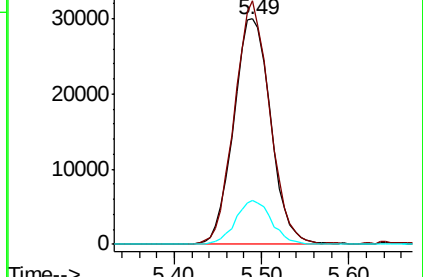
192 18.9 15.4 23.2



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 5.393 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX012949.D

Acq: 09 Oct 2019 17:42

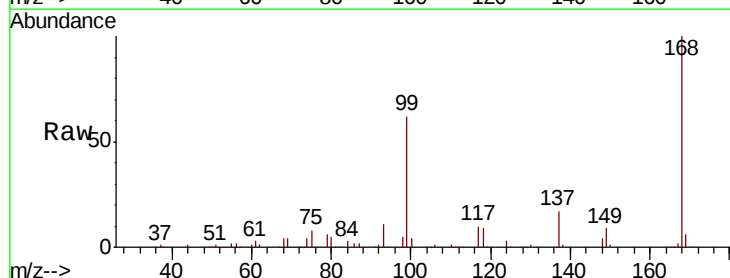
Tgt Ion: 75 Resp: 13808

Ion Ratio Lower Upper

75 100

110 10.1 17.6 52.9#

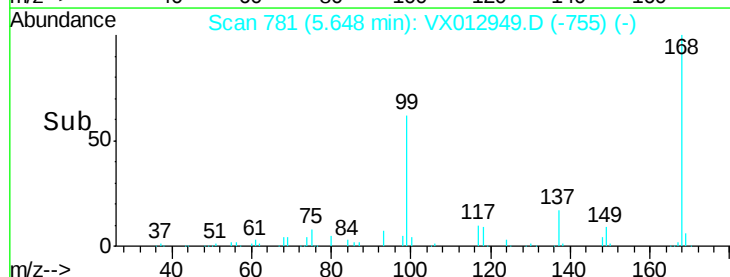
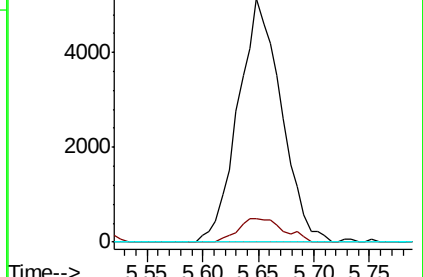
77 0.0 24.4 36.6#

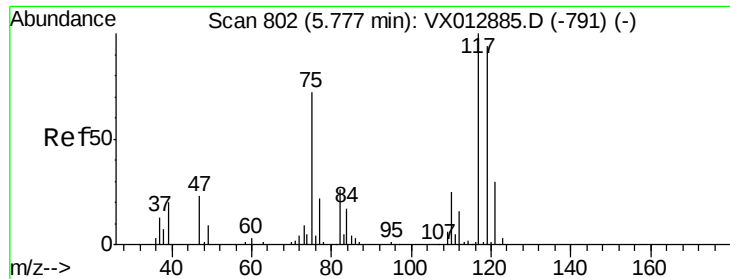


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

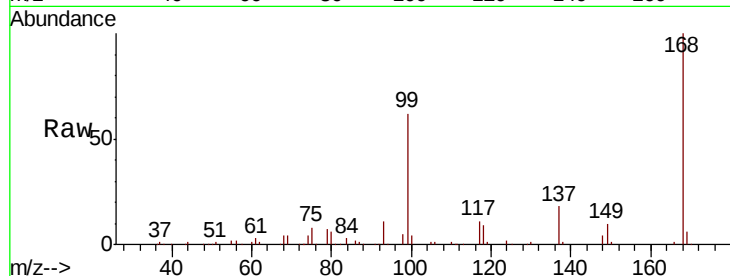




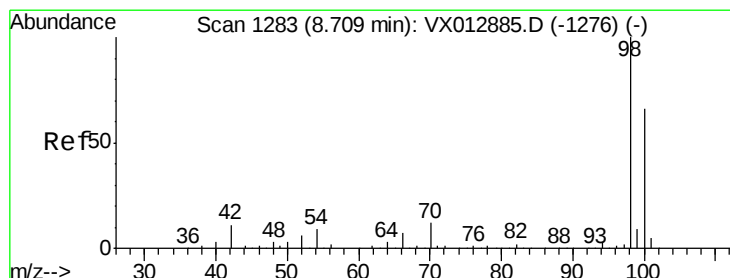
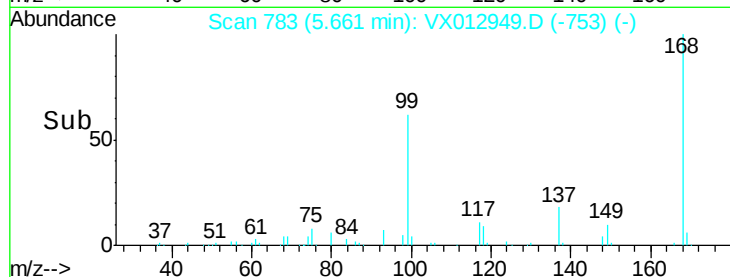
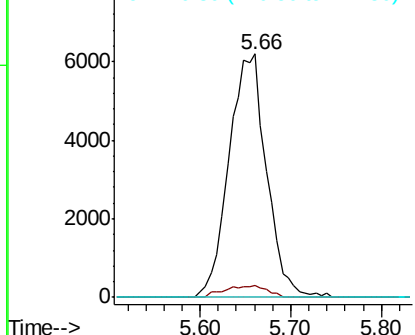
#38
Carbon Tetrachloride
Concen: 7.186 ug/l
RT: 5.66 min Scan# 783
Delta R.T. -0.12 min
Lab File: VX012949.D
Acq: 09 Oct 2019 17:42

Instrument :
MSVOA_X
ClientSampleId :
30361

Tot Ion:117 Resp: 17906
Ion Ratio Lower Upper
117 100
119 4.8 74.5 111.7#
121 0.0 24.2 36.4#

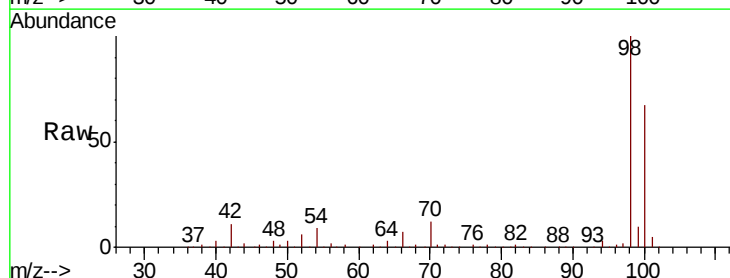


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

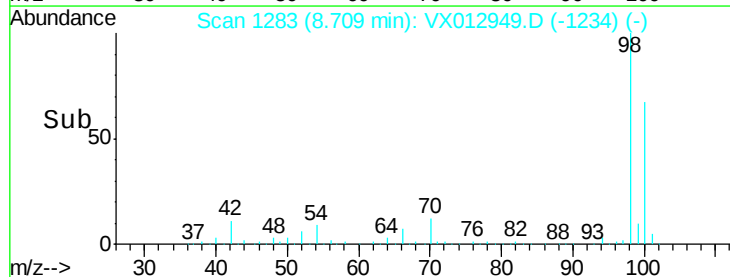
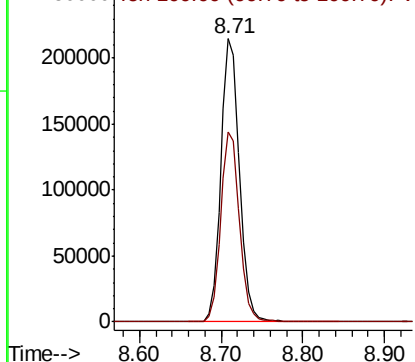


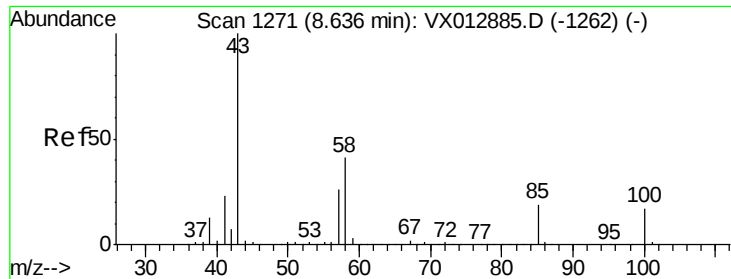
#50
Toluene-d8
Concen: 52.177 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VX012949.D
Acq: 09 Oct 2019 17:42

Tgt Ion: 98 Resp: 340114
Ion Ratio Lower Upper
98 100
100 67.9 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 0.379 ug/l

RT: 8.64 min Scan# 1271

Delta R.T. -0.00 min

Lab File: VX012949.D

Acq: 09 Oct 2019 17:42

Instrument :

MSVOA_X

ClientSampleId :

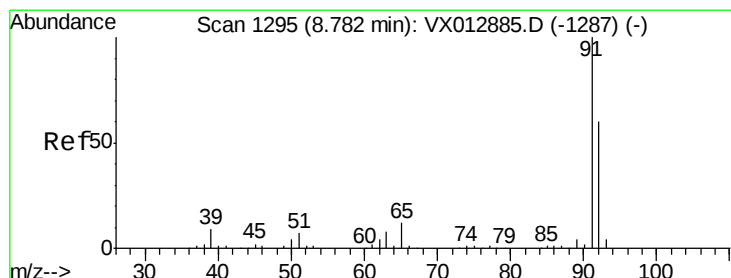
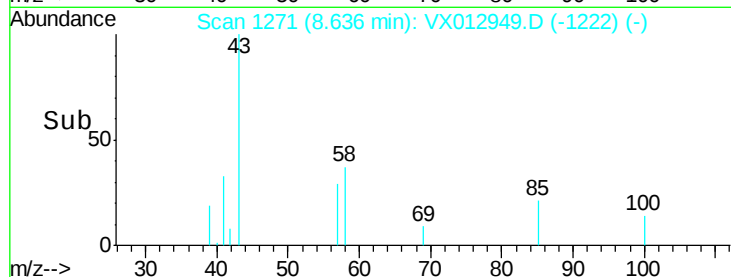
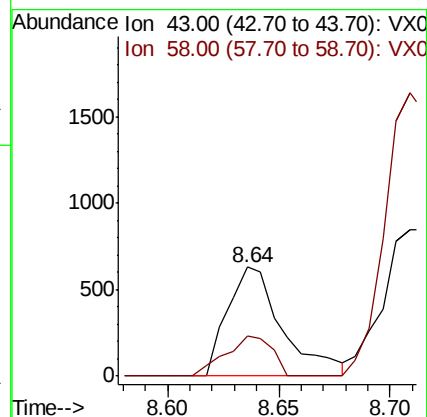
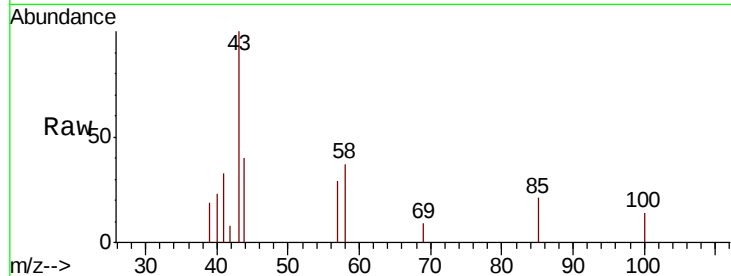
30361

Tot Ion: 43 Resp: 1086

Ion Ratio Lower Upper

43 100

58 30.9 32.4 48.6#



#52

Toluene

Concen: 0.234 ug/l

RT: 8.78 min Scan# 1295

Delta R.T. -0.00 min

Lab File: VX012949.D

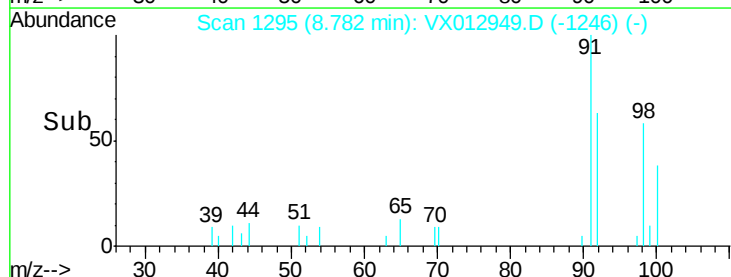
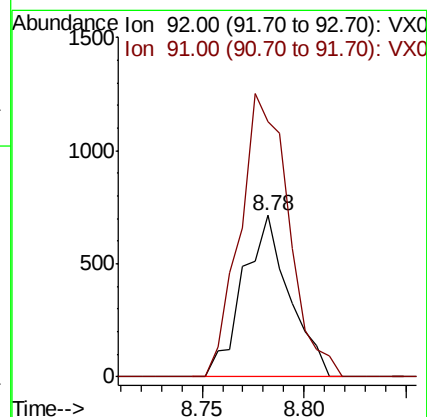
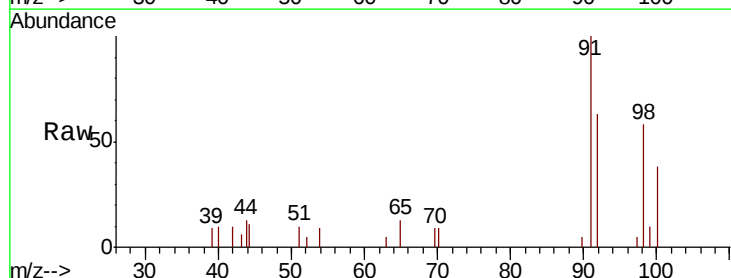
Acq: 09 Oct 2019 17:42

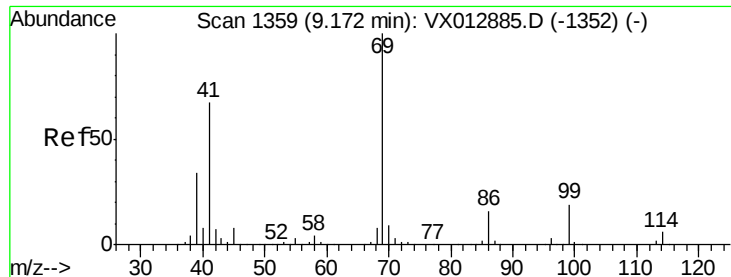
Tgt Ion: 92 Resp: 1132

Ion Ratio Lower Upper

92 100

91 183.8 135.9 203.9





#56

Ethyl methacrylate

Concen: 1.891 ug/l

RT: 9.09 min Scan# 1346

Delta R.T. -0.08 min

Lab File: VX012949.D

Acq: 09 Oct 2019 17:42

Instrument :

MSVOA_X

ClientSampleId :

30361

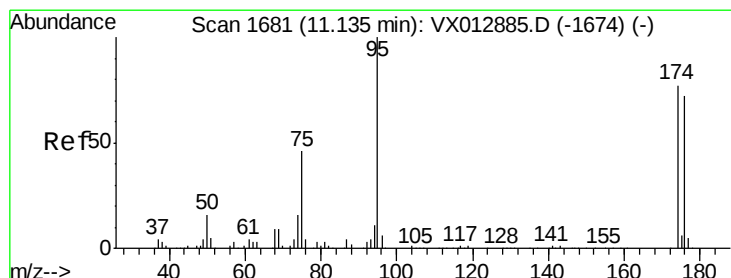
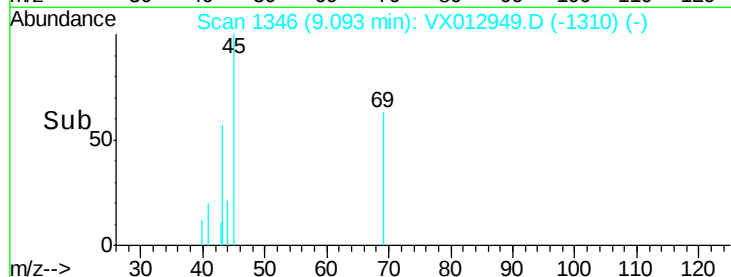
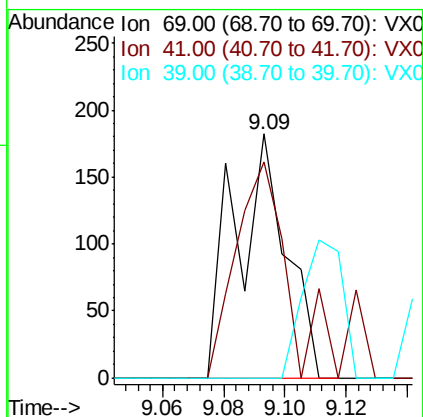
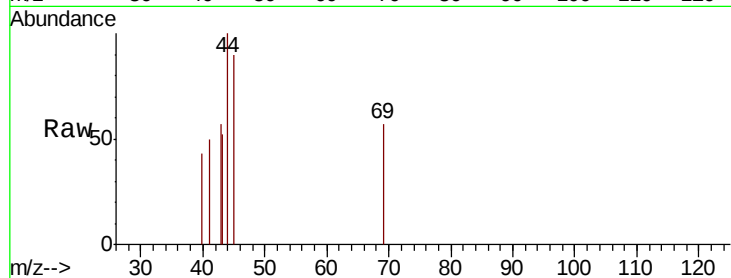
Tot Ion: 69 Resp: 213

Ion Ratio Lower Upper

69 100

41 100.5 52.1 78.1#

39 44.1 27.8 41.8#



#62

4-Bromofluorobenzene

Concen: 46.623 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VX012949.D

Acq: 09 Oct 2019 17:42

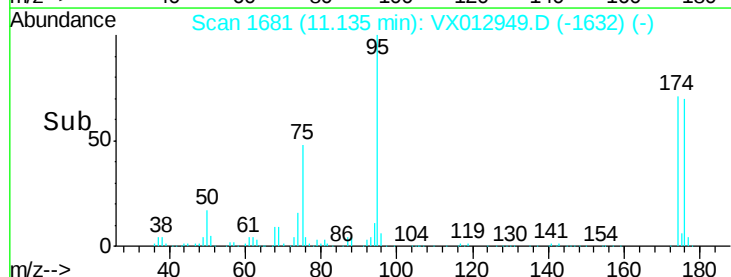
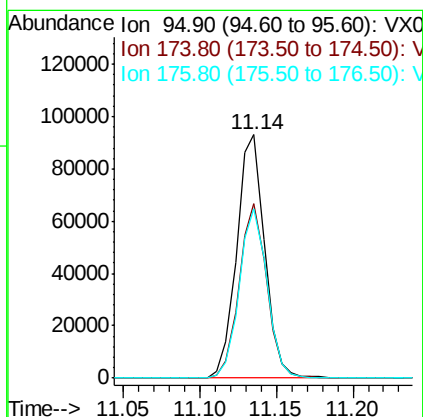
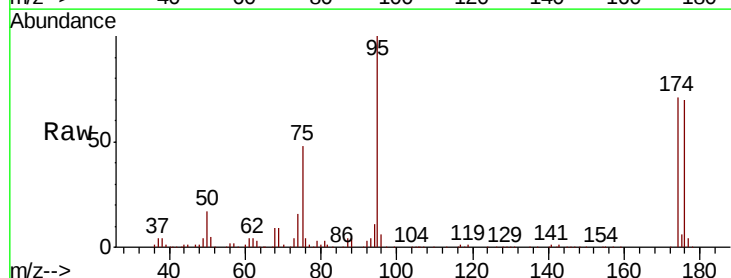
Tgt Ion: 95 Resp: 118086

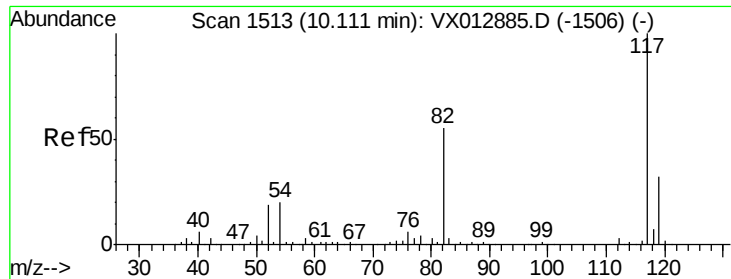
Ion Ratio Lower Upper

95 100

174 70.4 0.0 143.4

176 69.2 0.0 136.0

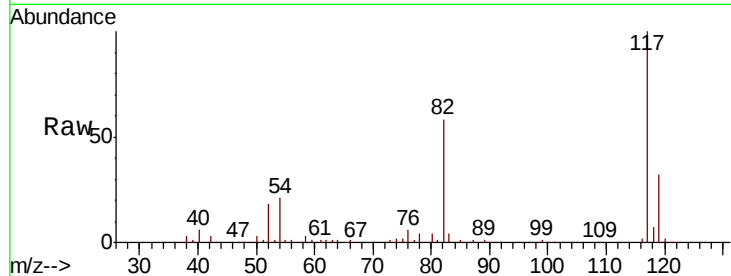




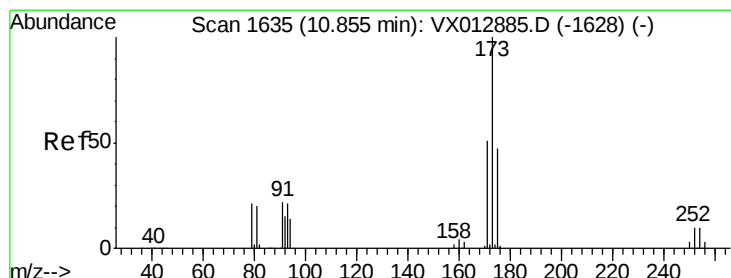
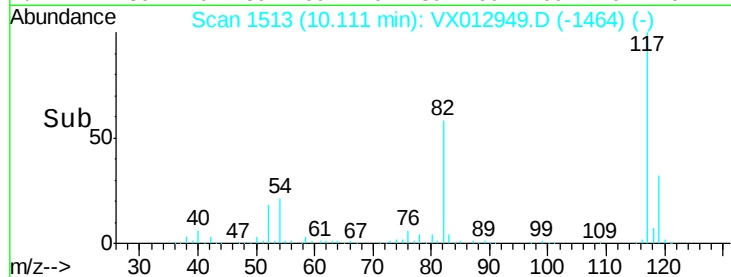
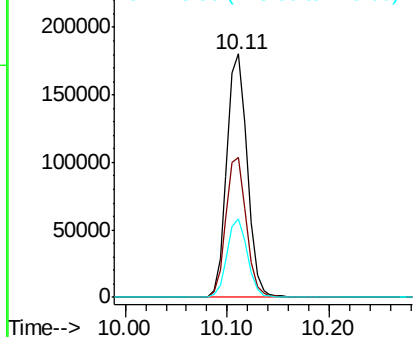
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX012949.D
Acq: 09 Oct 2019 17:42

Instrument :
MSVOA_X
ClientSampled :
30361

Tot Ion:117 Resp: 250886
Ion Ratio Lower Upper
117 100
82 57.5 44.1 66.1
119 32.2 25.8 38.8

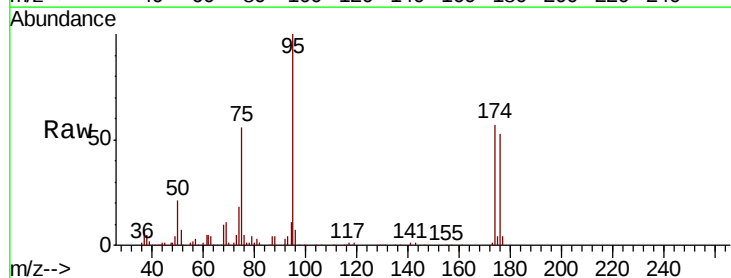


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

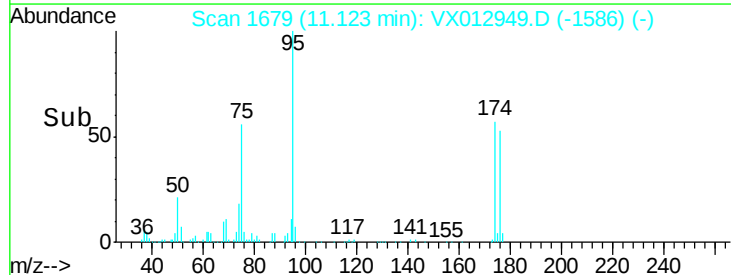
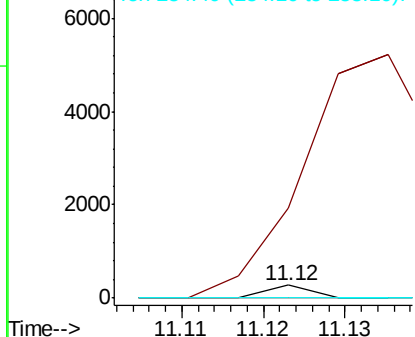


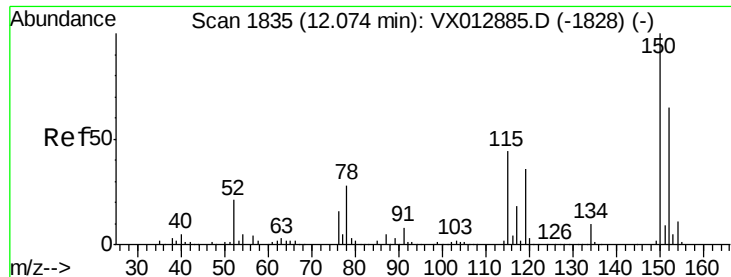
#71
Bromoform
Concen: 3.197 ug/l
RT: 11.12 min Scan# 1679
Delta R.T. 0.27 min
Lab File: VX012949.D
Acq: 09 Oct 2019 17:42

Tgt Ion:173 Resp: 101
Ion Ratio Lower Upper
173 100
175 0.0 24.1 72.3#
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: 12.07 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX012949.D

Acq: 09 Oct 2019 17:42

Instrument :

MSVOA_X

ClientSampleId :

30361

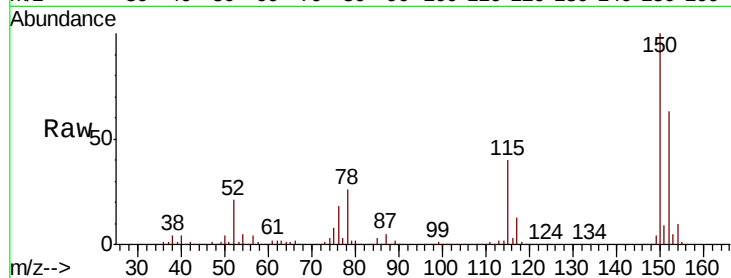
Tot Ion:152 Resp: 100095

Ion Ratio Lower Upper

152 100

115 63.5 44.5 133.5

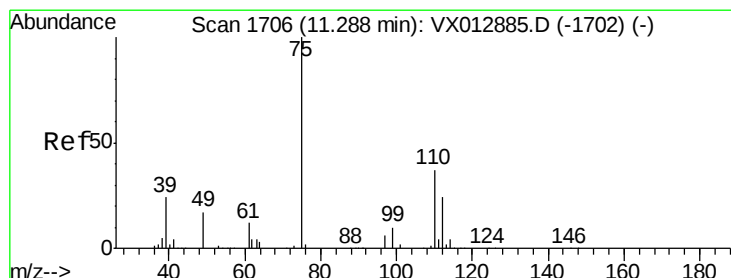
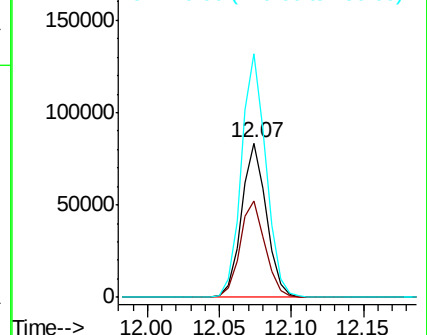
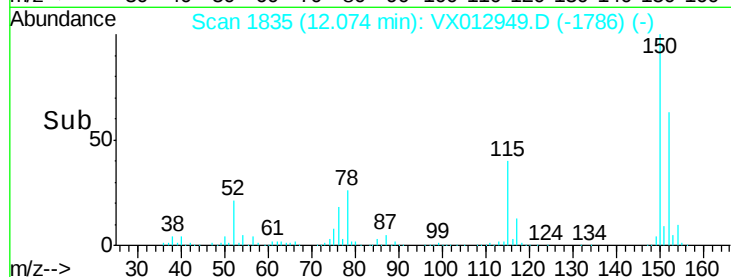
150 157.3 0.0 353.4



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: 26.792 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX012949.D

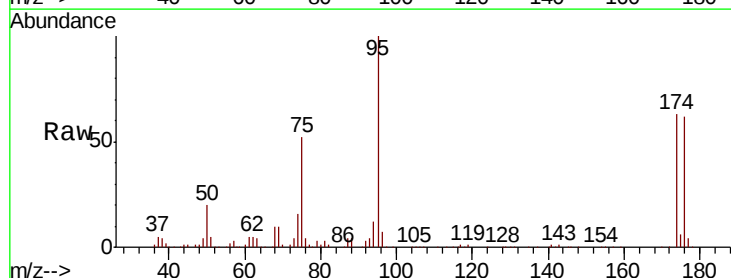
Acq: 09 Oct 2019 17:42

Tgt Ion: 75 Resp: 59481

Ion Ratio Lower Upper

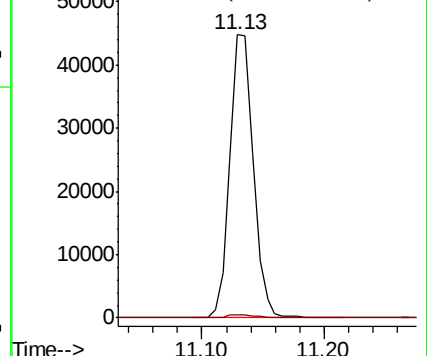
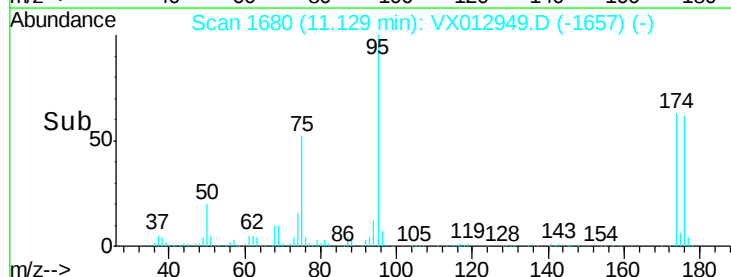
75 100

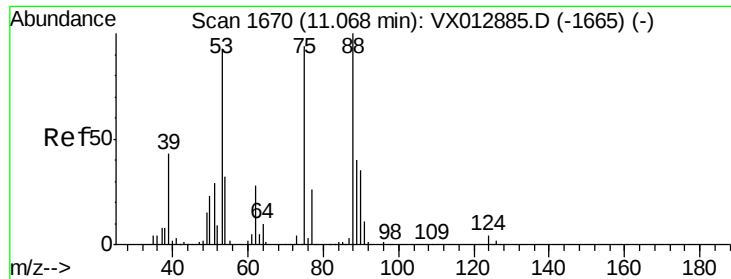
77 1.2 22.9 68.8#



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: 67.352 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX012949.D

Acq: 09 Oct 2019 17:42

Instrument :

MSVOA_X

ClientSampleId :

30361

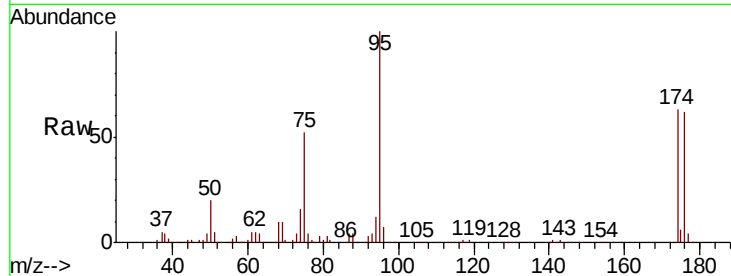
Tot Ion: 75 Resp: 59481

Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

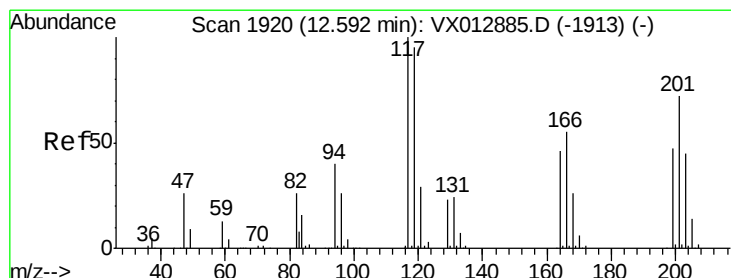
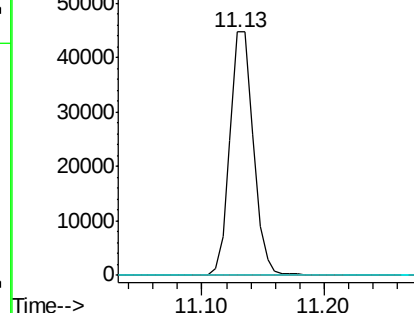
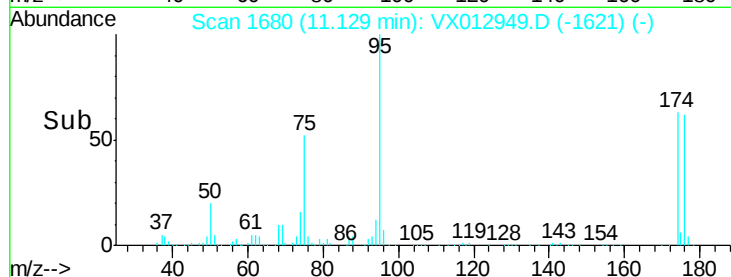
89 0.0 37.4 56.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#90

Hexachloroethane

Concen: 2.165 ug/l

RT: 12.74 min Scan# 1945

Delta R.T. 0.15 min

Lab File: VX012949.D

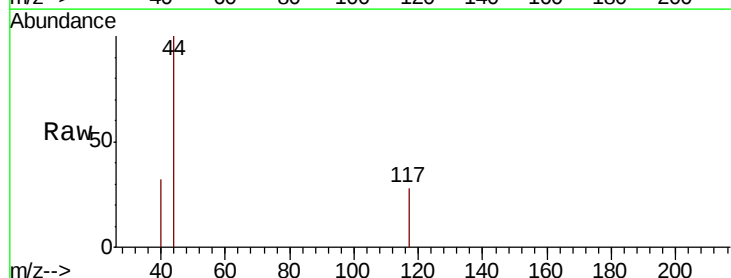
Acq: 09 Oct 2019 17:42

Tgt Ion: 117 Resp: 58

Ion Ratio Lower Upper

117 100

201 0.0 36.9 110.7#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

