

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100719\
 Data File : VX012857.D
 Acq On : 07 Oct 2019 23:00
 Operator : JC/SP
 Sample : VX1007WBL02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Oct 08 11:15:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092319W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 23 12:27:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	177900	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	302333	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	256800	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	97430	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	121402	46.86	ug/l	0.00
Spiked Amount			Recovery	=	93.72%	
35) Dibromofluoromethane	5.49	113	93205	51.77	ug/l	0.00
Spiked Amount			Recovery	=	103.54%	
50) Toluene-d8	8.71	98	369732	53.32	ug/l	0.00
Spiked Amount			Recovery	=	106.64%	
62) 4-Bromofluorobenzene	11.13	95	126279	46.32	ug/l	0.00
Spiked Amount			Recovery	=	92.64%	

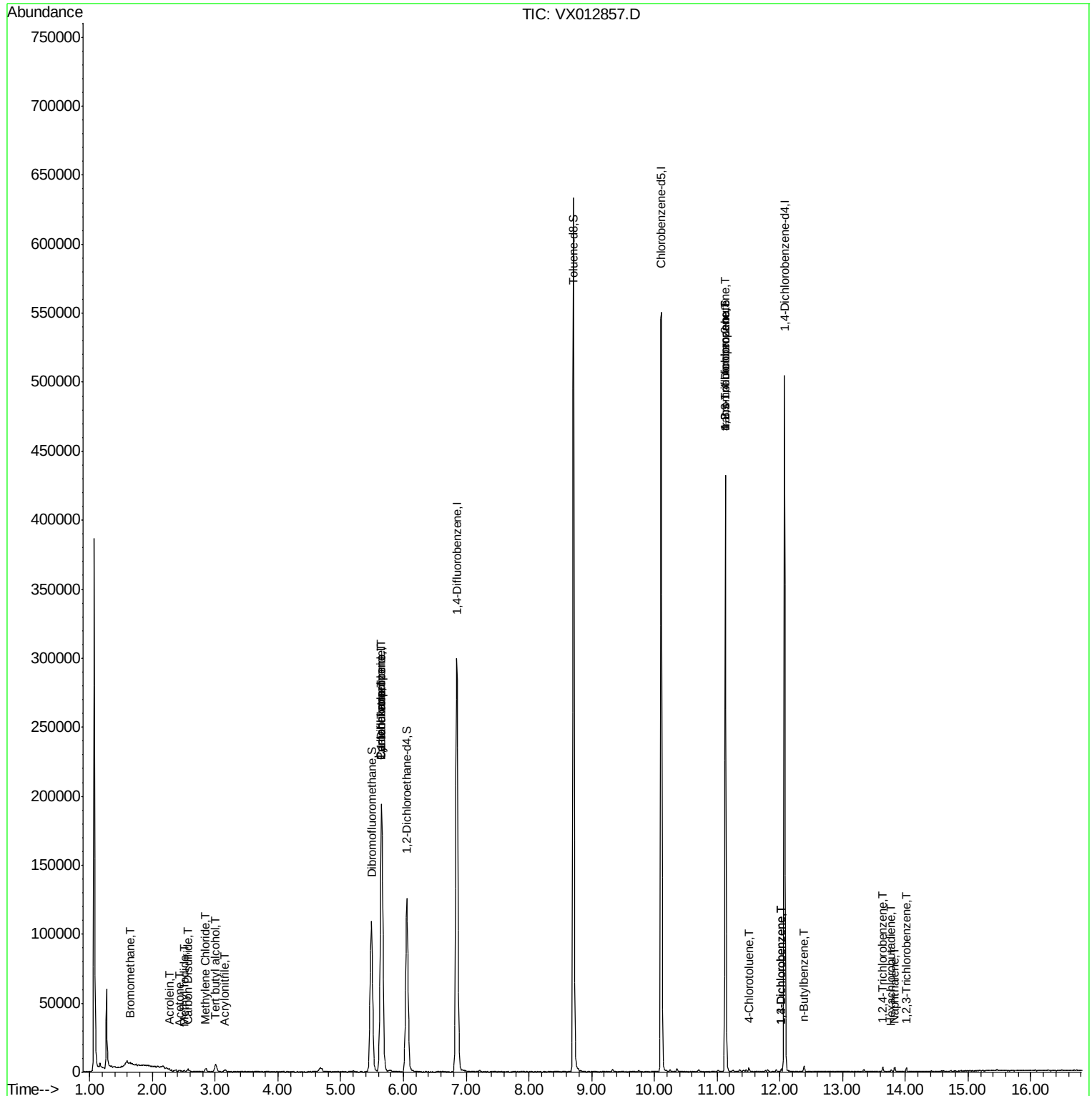
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	730	0.813	ug/l #	68
10) Methyl Iodide	2.51	142	839	5.320	ug/l #	76
11) Tert butyl alcohol	3.01	59	3722	5.751	ug/l #	72
13) Acrolein	2.28	56	302	11.036	ug/l #	61
15) Acrylonitrile	3.14	53	475	0.362	ug/l	84
16) Acetone	2.44	43	802	0.584	ug/l #	84
17) Carbon Disulfide	2.56	76	2446	0.456	ug/l #	85
20) Methylene Chloride	2.84	84	911	0.393	ug/l #	80
31) Cyclohexane	5.64	56	3883	1.077	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	14611	5.014	ug/l #	52
38) Carbon Tetrachloride	5.65	117	18419	6.222	ug/l #	17
76) 1,2,3-Trichloropropane	11.13	75	63452	24.620	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.13	75	63452	70.555	ug/l #	8
82) 4-Chlorotoluene	11.51	91	1292	0.203	ug/l	89
87) 1,3-Dichlorobenzene	12.02	146	769	0.238	ug/l	93
88) 1,4-Dichlorobenzene	12.02	146	769	0.235	ug/l	93
89) n-Butylbenzene	12.39	91	1276	0.215	ug/l	82
93) 1,2,4-Trichlorobenzene	13.64	180	856	0.434	ug/l	78
94) Hexachlorobutadiene	13.78	225	300	0.353	ug/l	75
95) Naphthalene	13.84	128	2316	0.324	ug/l	96
96) 1,2,3-Trichlorobenzene	14.02	180	580	0.293	ug/l	82

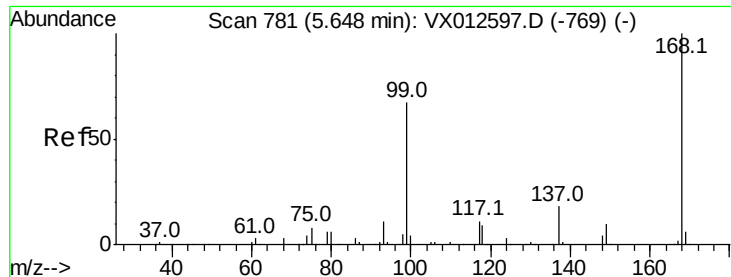
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V\OASRV\HPCHEM1\MSVOA_X\METHOD\82X092319W.M
Quant Title : SW846 8260
QLast Update : Mon Sep 23 12:27:01 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX012857.D

Acq: 07 Oct 2019 23:00

Instrument :

MSVOA_X

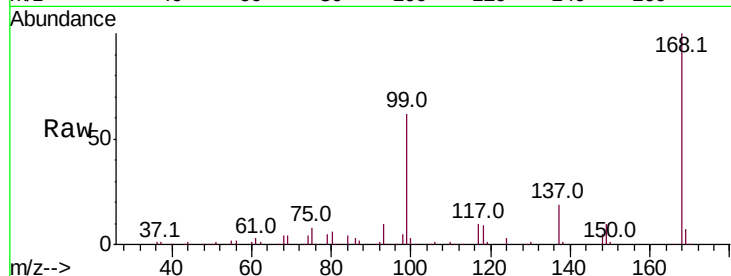
ClientSampleId :

Tot Ion:168 Resp: 177900

Ion Ratio Lower Upper

168 100

99 62.3 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): VX012597.D (-769) (-)

Ion 98.90 (98.60 to 99.60): VX012597.D (-769) (-)

5.65

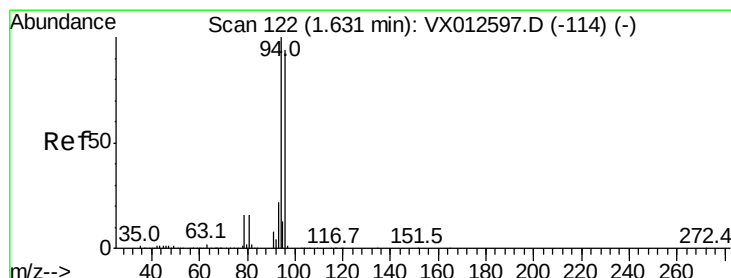
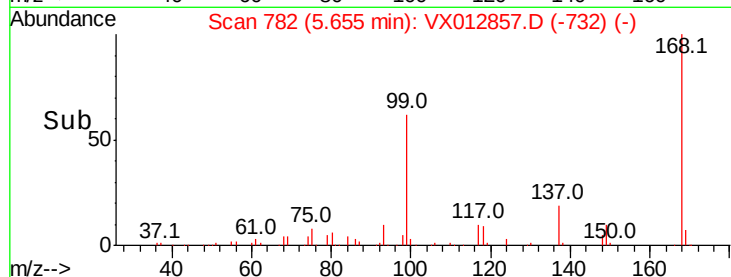
60000

40000

20000

0

Time--> 5.50 5.60 5.70



#5

Bromomethane

Concen: 0.813 ug/l

RT: 1.65 min Scan# 125

Delta R.T. 0.02 min

Lab File: VX012857.D

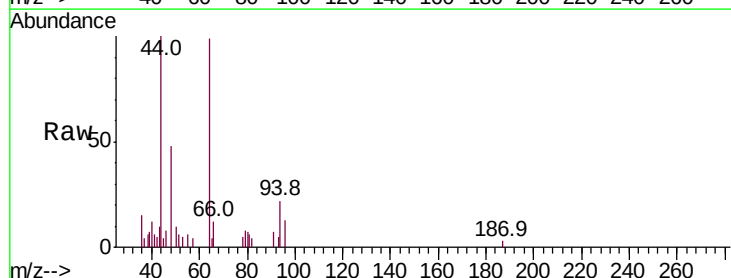
Acq: 07 Oct 2019 23:00

Tgt Ion: 94 Resp: 730

Ion Ratio Lower Upper

94 100

96 60.5 72.8 109.2#



Abundance Ion 93.90 (93.60 to 94.60): VX012597.D (-114) (-)

Ion 95.90 (95.60 to 96.60): VX012597.D (-114) (-)

1.65

400

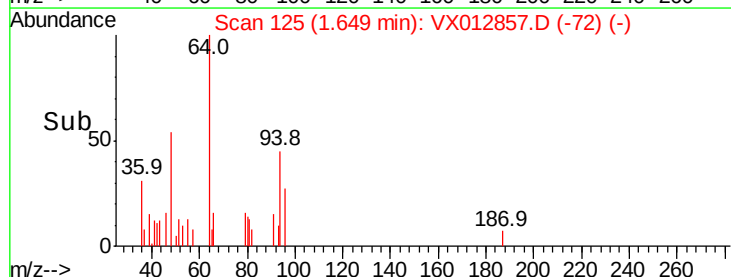
300

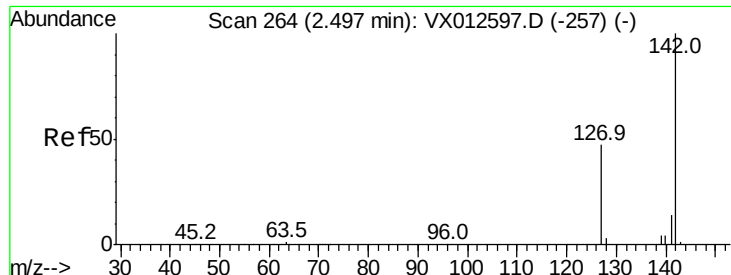
200

100

0

Time--> 1.60 1.65 1.70

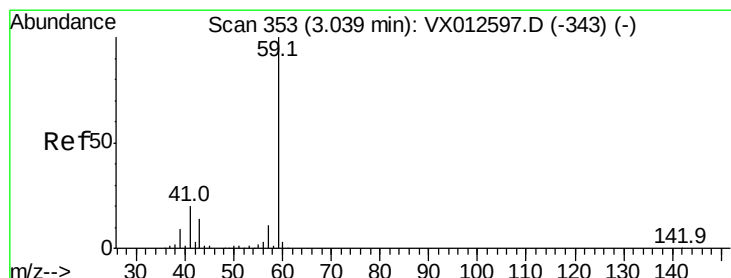
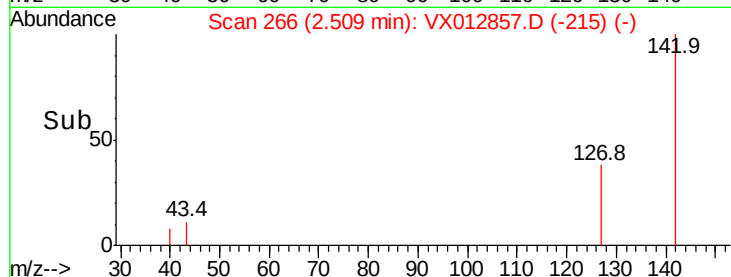
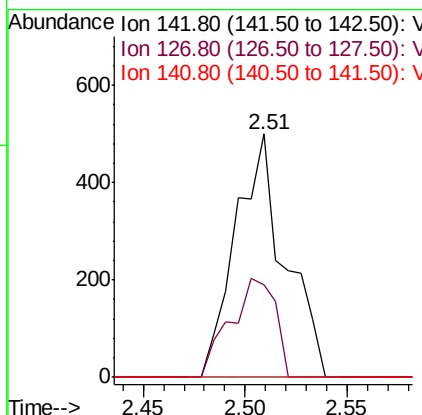
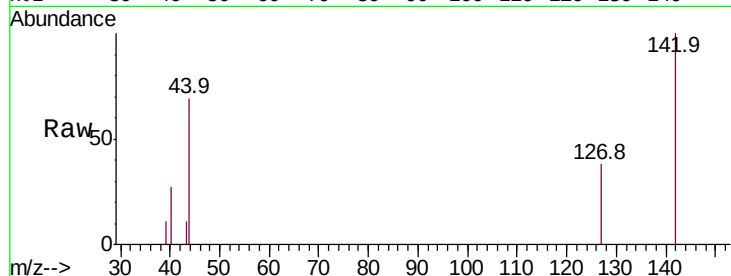




#10
Methvl Iodide
Concen: 5.320 ug/l
RT: 2.51 min Scan# 266
Delta R.T. 0.01 min
Lab File: VX012857.D
Acq: 07 Oct 2019 23:00

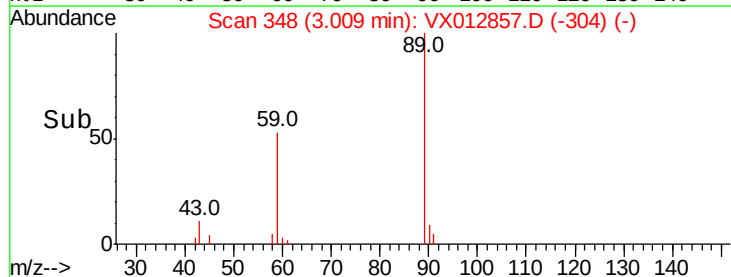
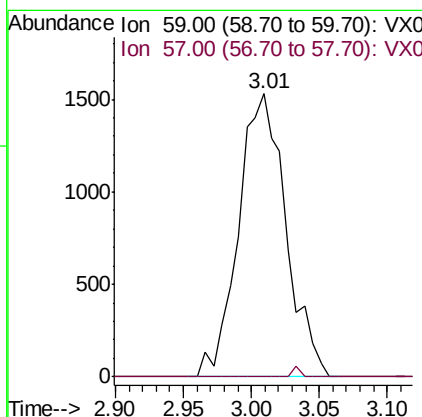
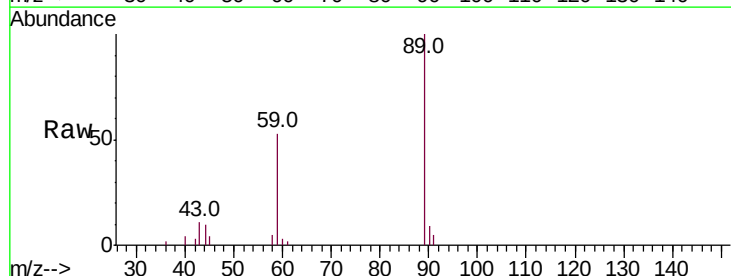
Instrument :
MSVOA_X
ClientSampleId :

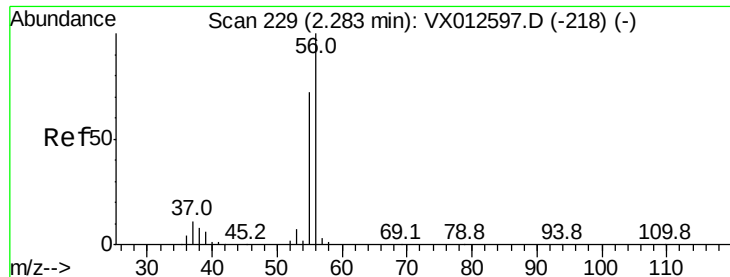
Tot Ion:142 Resp: 839
Ion Ratio Lower Upper
142 100
127 36.9 40.8 61.2#
141 0.0 12.1 18.1#



#11
Tert butyl alcohol
Concen: 5.751 ug/l
RT: 3.01 min Scan# 348
Delta R.T. -0.03 min
Lab File: VX012857.D
Acq: 07 Oct 2019 23:00

Tgt Ion: 59 Resp: 3722
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#





#13

Acrolein

Concen: 11.036 ug/l

RT: 2.28 min Scan# 228

Delta R.T. -0.01 min

Lab File: VX012857.D

Acq: 07 Oct 2019 23:00

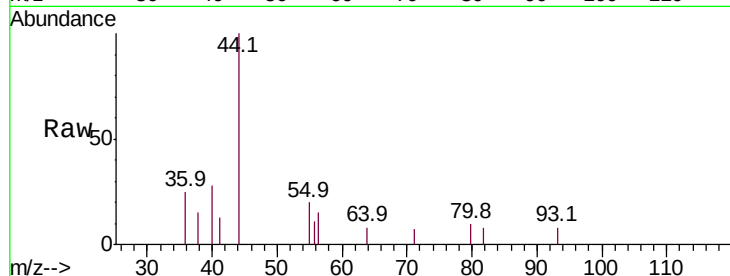
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 302

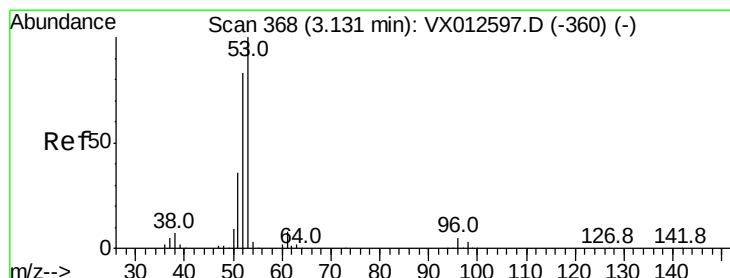
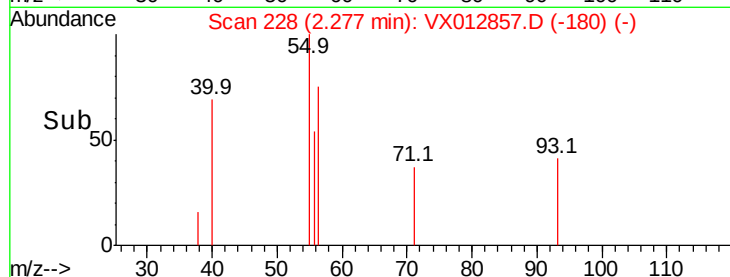
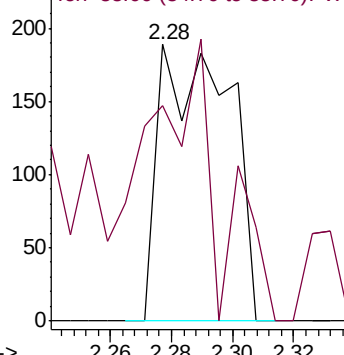
Ion Ratio Lower Upper

56 100

55 102.0 55.8 83.8#



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 55.00 (54.70 to 55.70): VX0



#15

Acrylonitrile

Concen: 0.362 ug/l

RT: 3.14 min Scan# 370

Delta R.T. 0.01 min

Lab File: VX012857.D

Acq: 07 Oct 2019 23:00

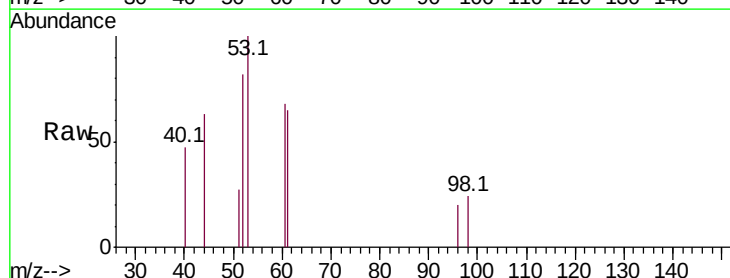
Tgt Ion: 53 Resp: 475

Ion Ratio Lower Upper

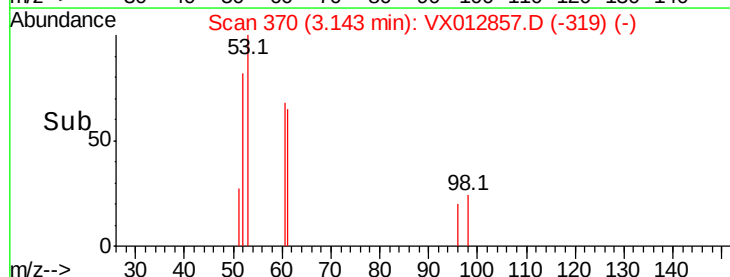
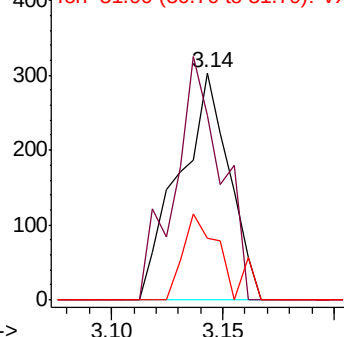
53 100

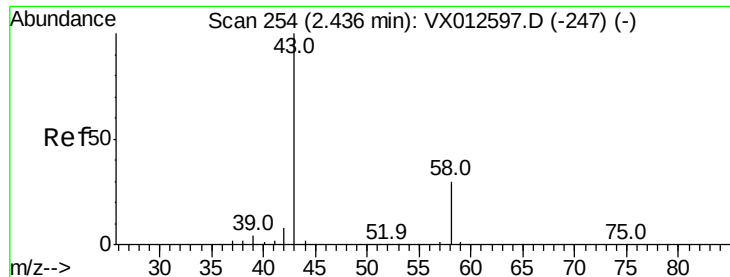
52 99.2 67.0 100.4

51 29.7 29.6 44.4



Abundance Ion 53.00 (52.70 to 53.70): VX0
Ion 52.00 (51.70 to 52.70): VX0
Ion 51.00 (50.70 to 51.70): VX0





#16

Acetone

Concen: 0.584 ug/l

RT: 2.44 min Scan# 254

Delta R.T. 0.00 min

Lab File: VX012857.D

Acq: 07 Oct 2019 23:00

Instrument :

MSVOA_X

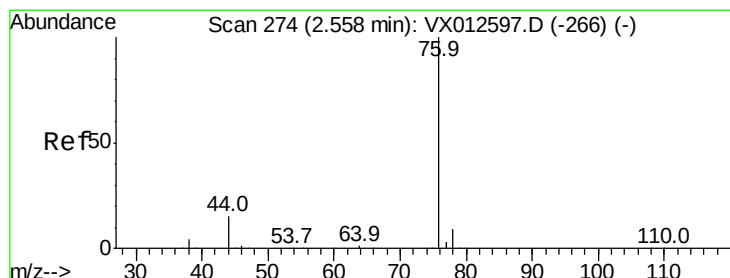
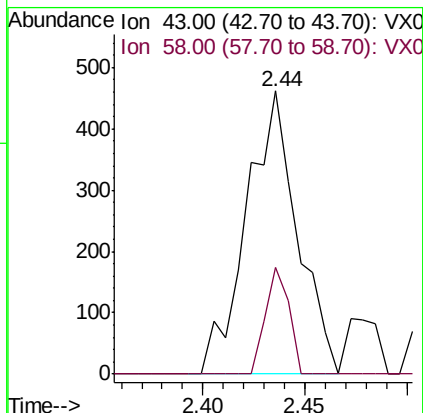
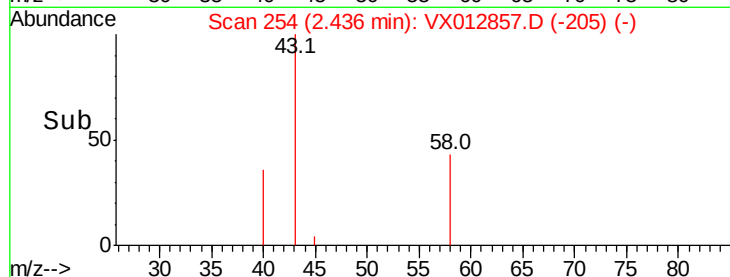
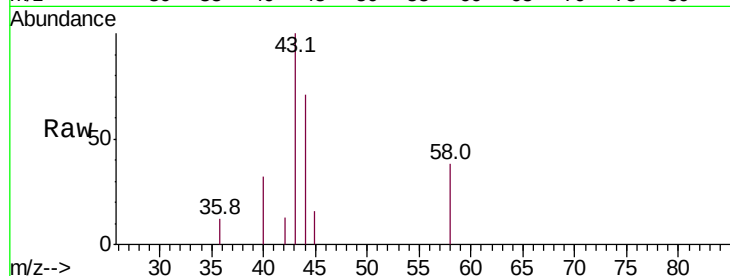
ClientSampled :

Tot Ion: 43 Resp: 802

Ion Ratio Lower Upper

43 100

58 37.7 23.3 34.9#



#17

Carbon Disulfide

Concen: 0.456 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX012857.D

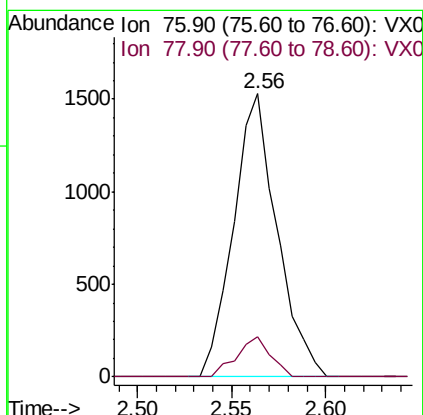
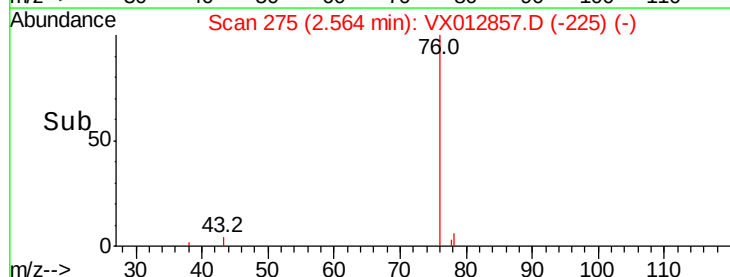
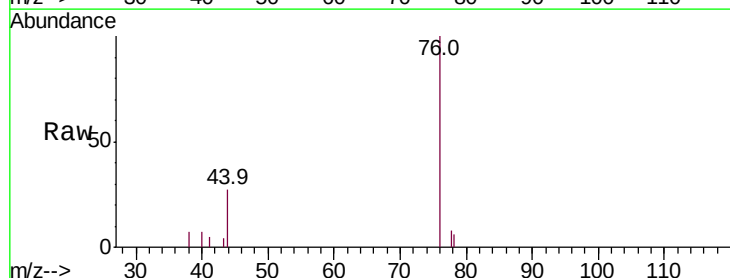
Acq: 07 Oct 2019 23:00

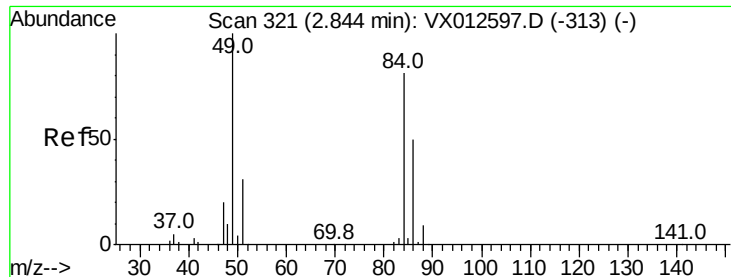
Tgt Ion: 76 Resp: 2446

Ion Ratio Lower Upper

76 100

78 14.4 7.3 10.9#

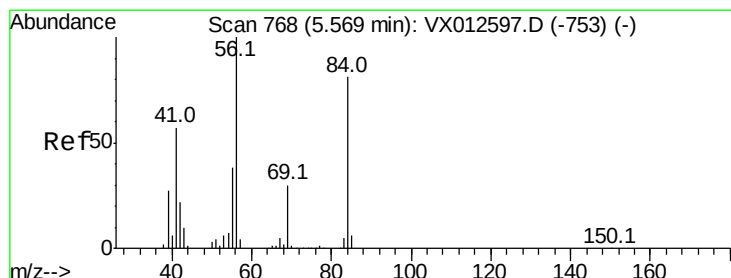
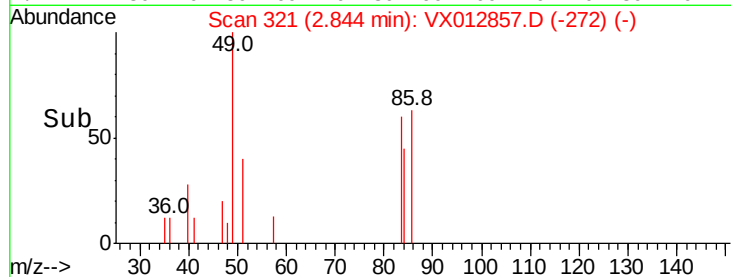
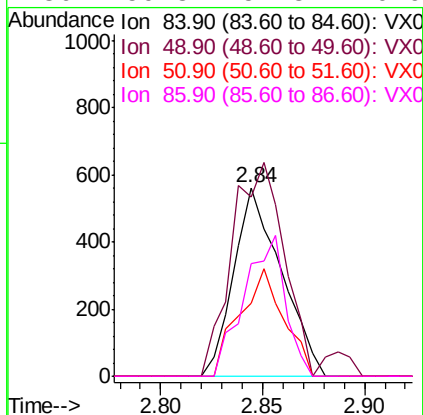
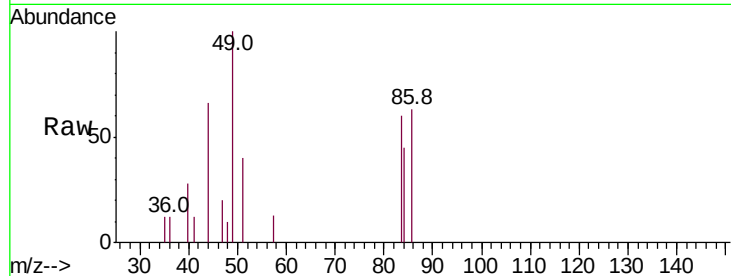




#20
Methylene Chloride
Concen: 0.393 ug/l
RT: 2.84 min Scan# 321
Delta R.T. 0.00 min
Lab File: VX012857.D
Acq: 07 Oct 2019 23:00

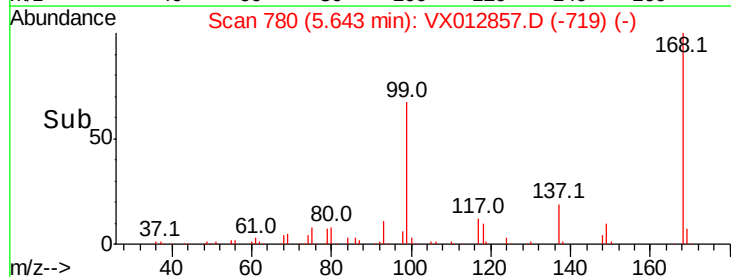
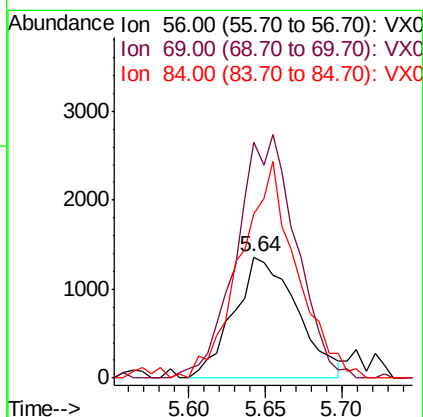
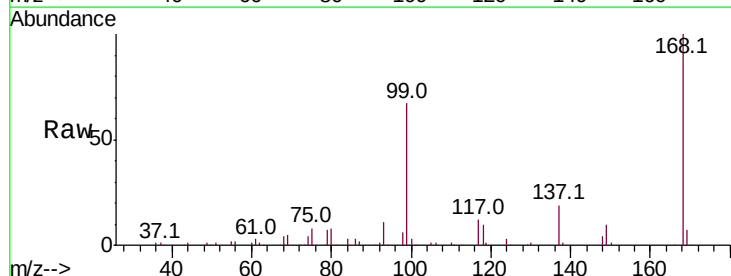
Instrument :
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ClientSampleId :

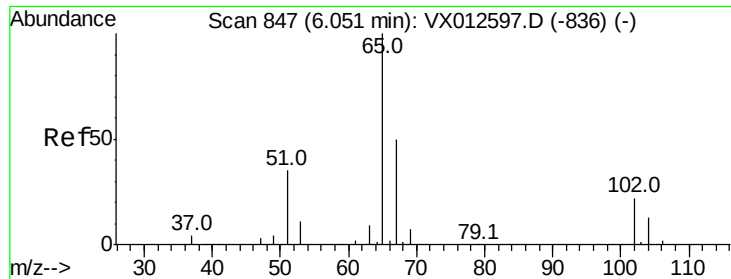
Tot Ion: 84 Resp: 911
Ion Ratio Lower Upper
84 100
49 95.4 106.8 160.2#
51 38.6 32.3 48.5
86 59.8 51.3 76.9



#31
Cyclohexane
Concen: 1.077 ug/l
RT: 5.64 min Scan# 780
Delta R.T. 0.07 min
Lab File: VX012857.D
Acq: 07 Oct 2019 23:00

Tgt Ion: 56 Resp: 3883
Ion Ratio Lower Upper
56 100
69 187.4 25.0 37.6#
84 135.5 66.4 99.6#

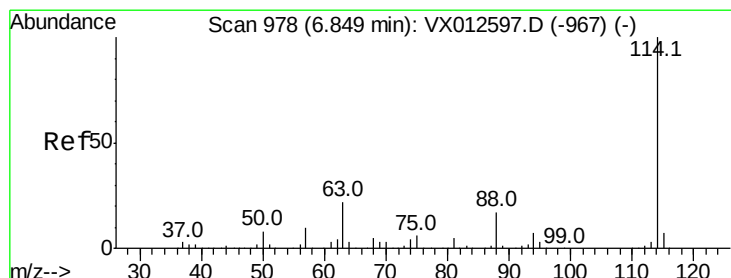
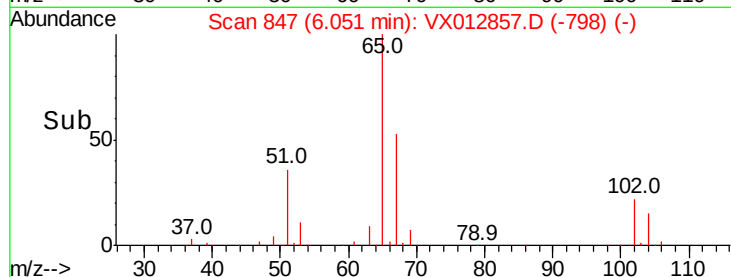
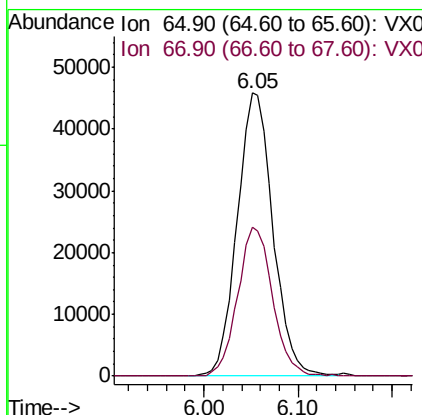
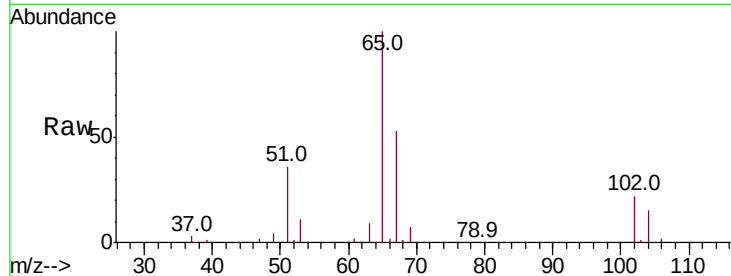




#33
 1,2-Dichloroethane-d4
 Concen: 46.863 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. 0.00 min
 Lab File: VX012857.D
 Acq: 07 Oct 2019 23:00

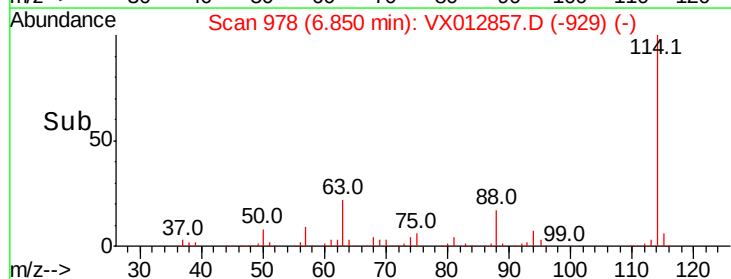
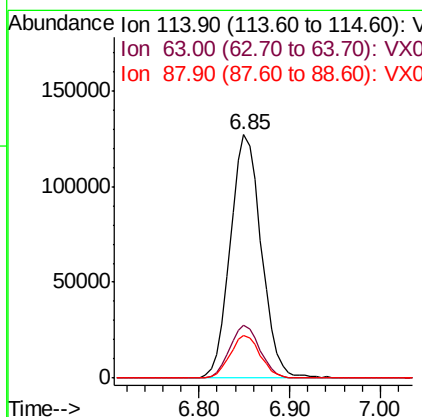
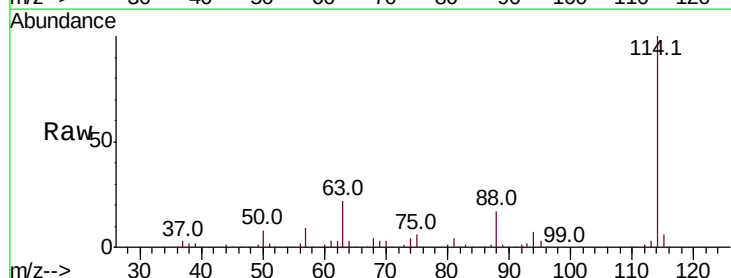
Instrument :
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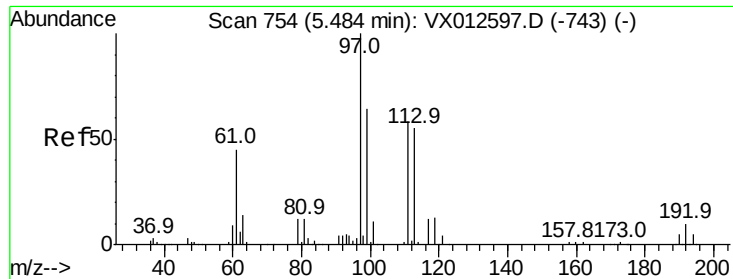
Tot Ion: 65 Resp: 121402
 Ion Ratio Lower Upper
 65 100
 67 51.7 0.0 101.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX012857.D
 Acq: 07 Oct 2019 23:00

Tgt Ion:114 Resp: 302333
 Ion Ratio Lower Upper
 114 100
 63 21.7 0.0 43.2
 88 17.4 0.0 33.2





#35

Dibromofluoromethane

Concen: 51.766 ug/l

RT: 5.49 min Scan# 755

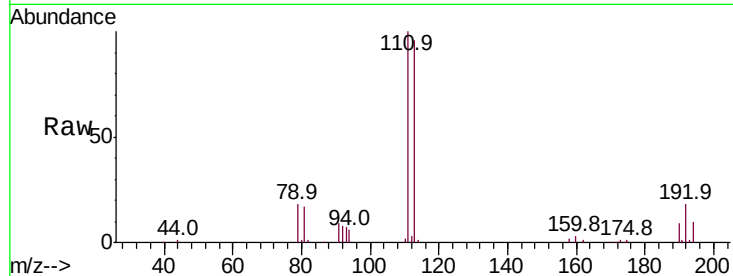
Delta R.T. 0.00 min

Lab File: VX012857.D

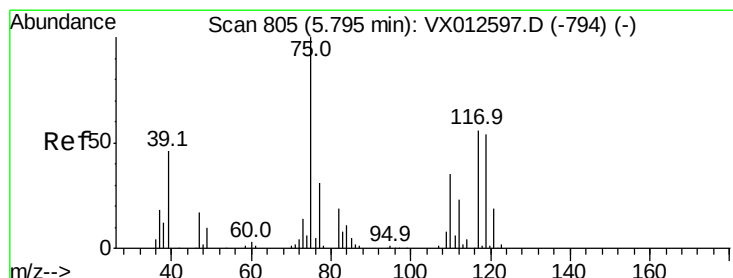
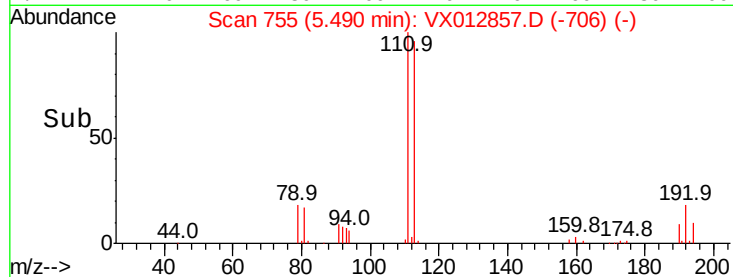
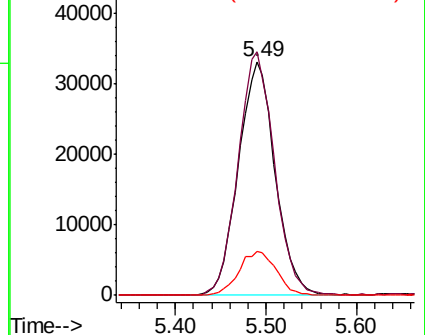
Acq: 07 Oct 2019 23:00

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:113	Resp:	93205
Ion Ratio	Lower	Upper
113	100	
111	103.1	83.4 125.2
192	19.1	14.4 21.6



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: 5.014 ug/l

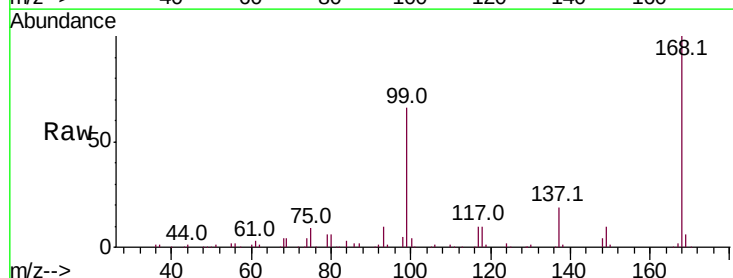
RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

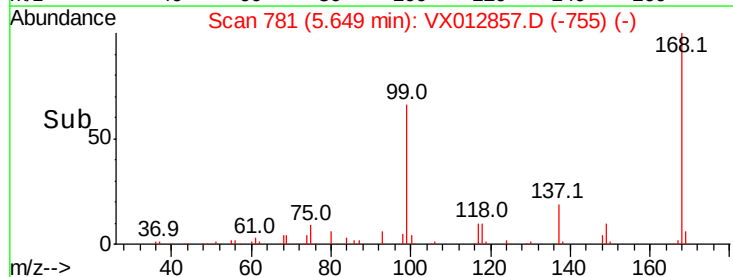
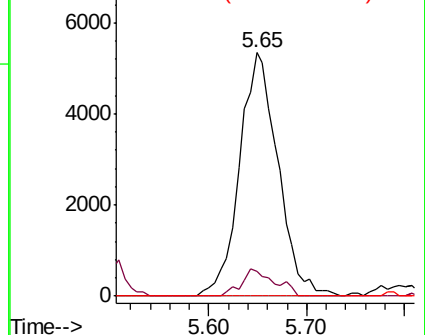
Lab File: VX012857.D

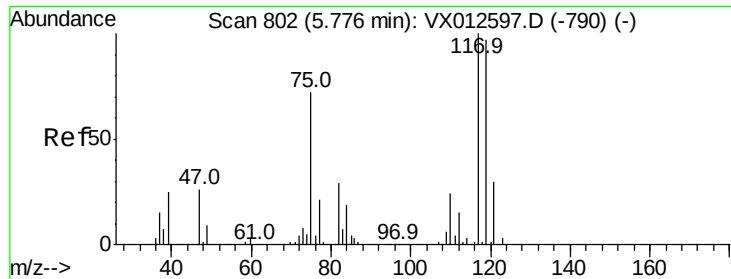
Acq: 07 Oct 2019 23:00

Tgt Ion: 75	Resp:	14611
Ion Ratio	Lower	Upper
75	100	
110	9.6	16.7 50.0#
77	0.0	24.2 36.2#



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

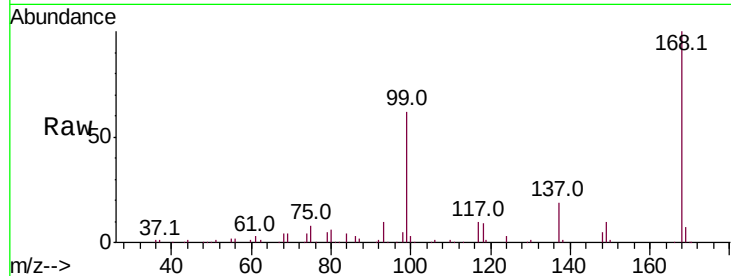




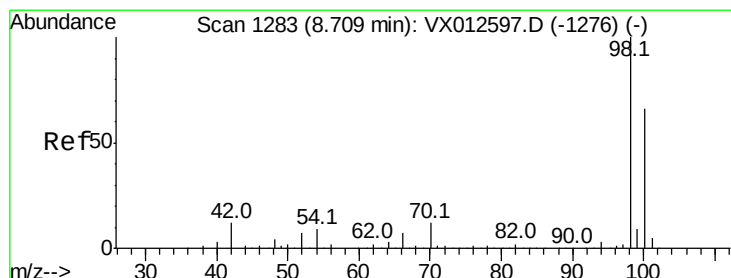
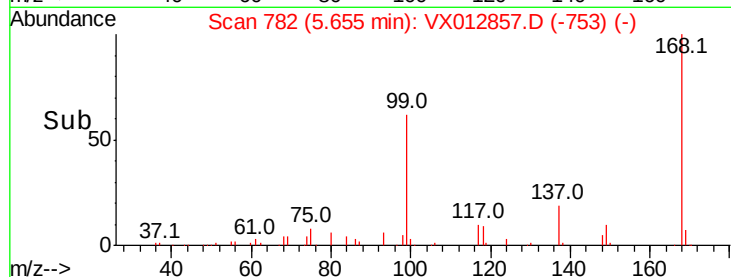
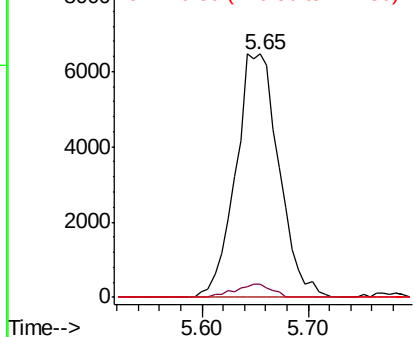
#38
Carbon Tetrachloride
Concen: 6.222 ug/l
RT: 5.65 min Scan# 782
Delta R.T. -0.12 min
Lab File: VX012857.D
Acq: 07 Oct 2019 23:00

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 18419
Ion Ratio Lower Upper
117 100
119 5.6 75.7 113.5#
121 0.0 24.2 36.4#

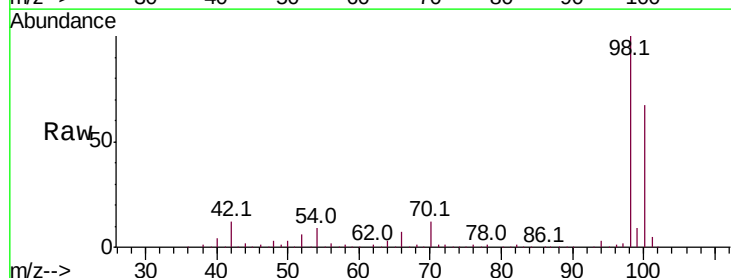


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

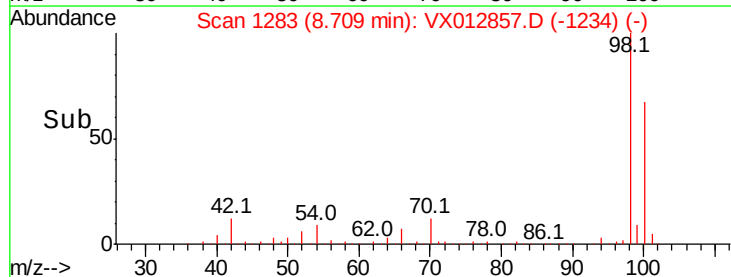
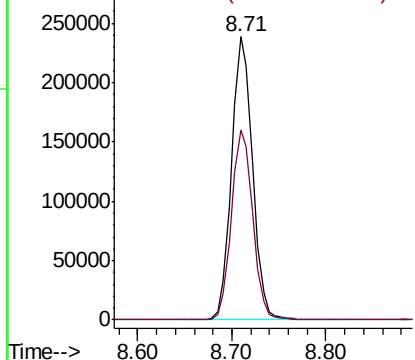


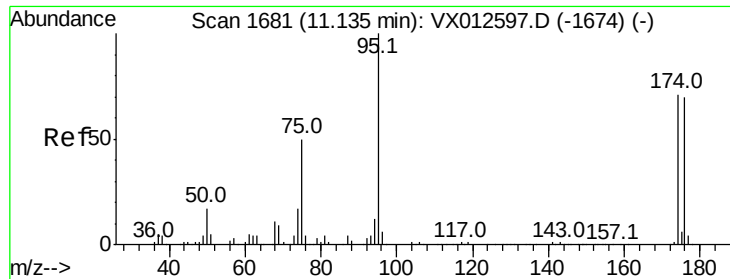
#50
Toluene-d8
Concen: 53.322 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX012857.D
Acq: 07 Oct 2019 23:00

Tgt Ion: 98 Resp: 369732
Ion Ratio Lower Upper
98 100
100 68.1 53.4 80.2



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

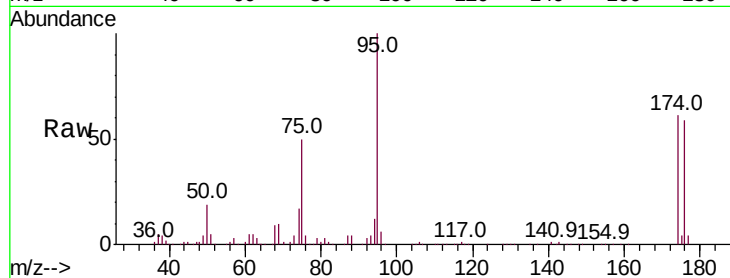




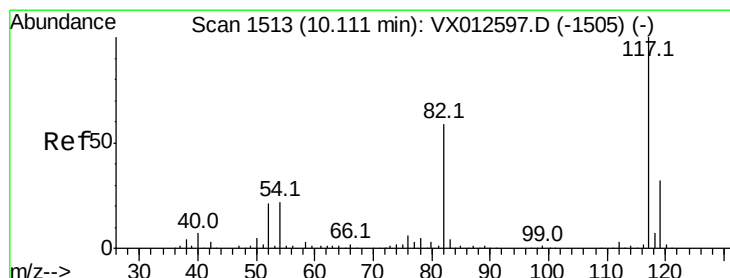
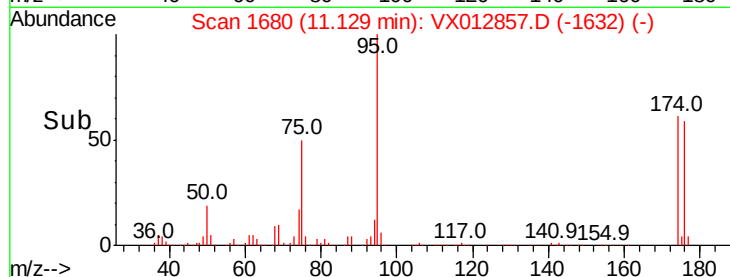
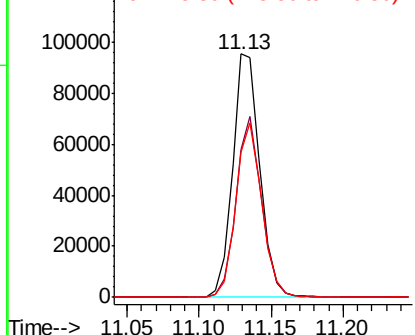
#62
4-Bromofluorobenzene
Concen: 46.316 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.01 min
Lab File: VX012857.D
Acq: 07 Oct 2019 23:00

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 95 Resp: 126279
Ion Ratio Lower Upper
95 100
174 69.6 0.0 140.0
176 68.2 0.0 135.4

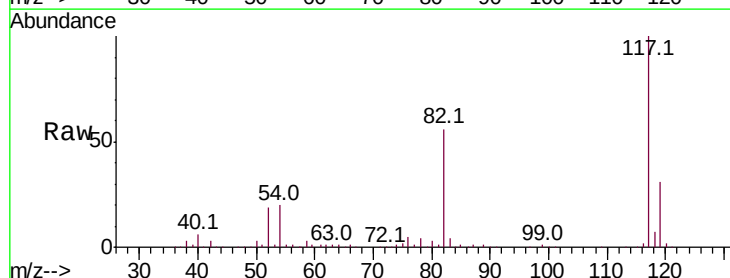


Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

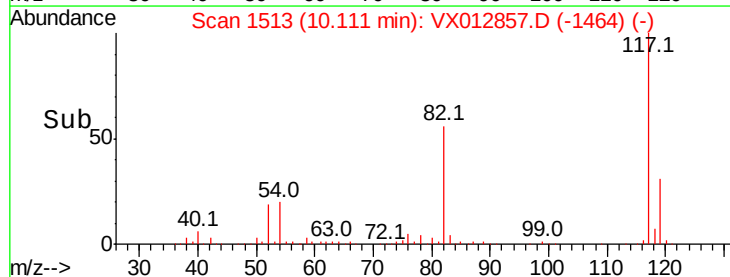
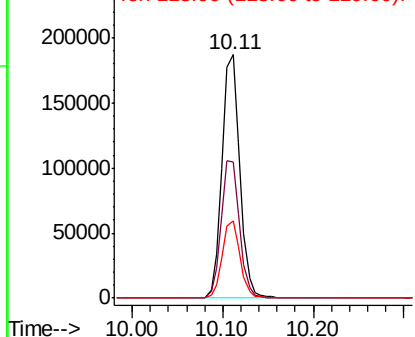


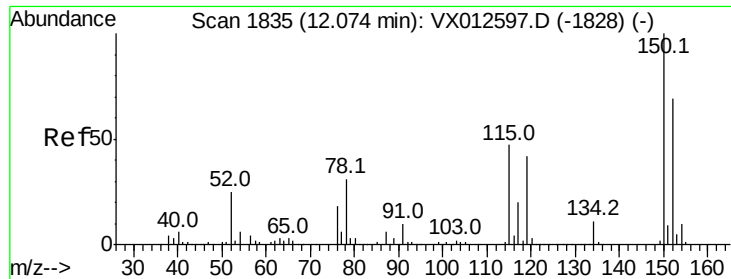
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX012857.D
Acq: 07 Oct 2019 23:00

Tgt Ion: 117 Resp: 256800
Ion Ratio Lower Upper
117 100
82 55.7 45.9 68.9
119 31.5 25.3 37.9



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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX012857.D

Acq: 07 Oct 2019 23:00

Instrument :

MSVOA_X

ClientSampleId :

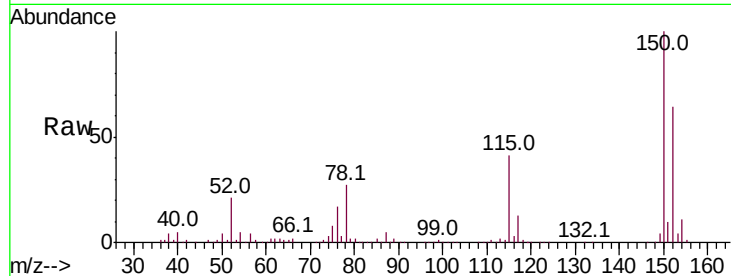
Tot Ion:152 Resp: 97430

Ion Ratio Lower Upper

152 100

115 64.9 44.1 132.3

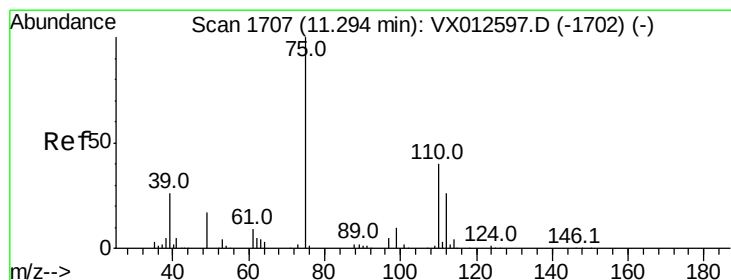
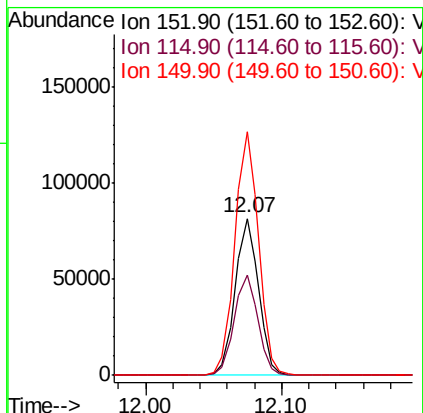
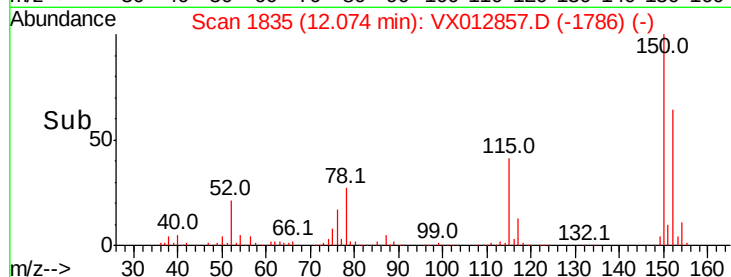
150 157.1 0.0 343.8



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: 24.620 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX012857.D

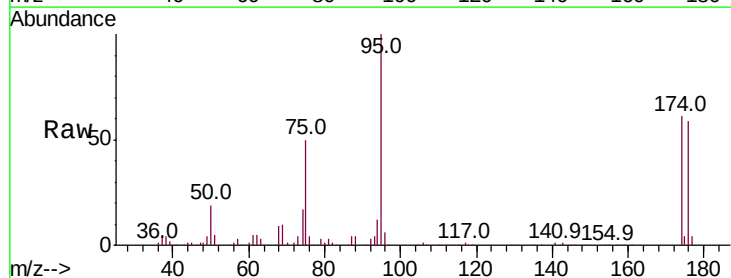
Acq: 07 Oct 2019 23:00

Tgt Ion: 75 Resp: 63452

Ion Ratio Lower Upper

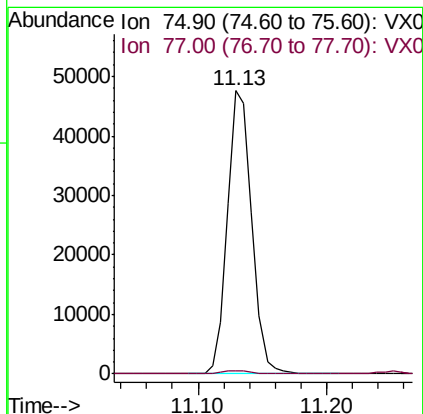
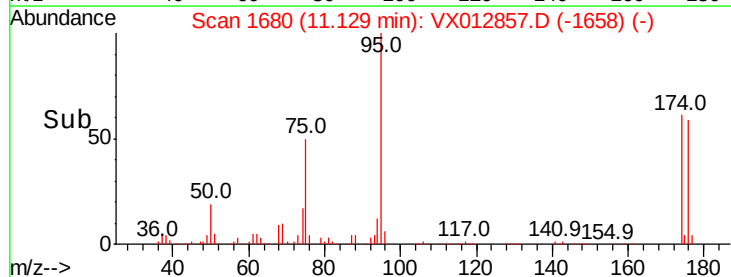
75 100

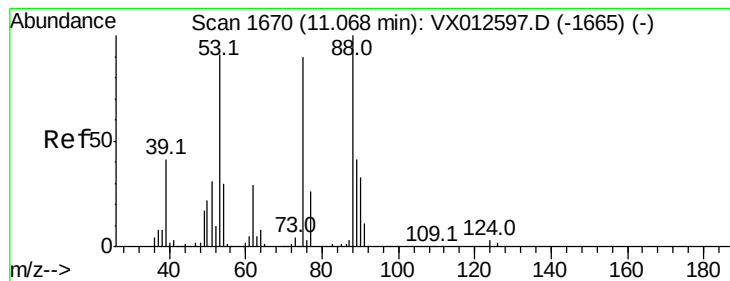
77 1.1 19.7 59.0#



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: 70.555 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX012857.D

Acq: 07 Oct 2019 23:00

Instrument :

MSVOA_X

ClientSampled :

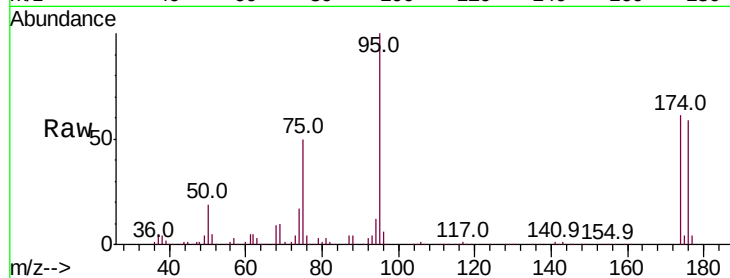
Tot Ion: 75 Resp: 63452

Ion Ratio Lower Upper

75 100

53 0.0 83.6 125.4#

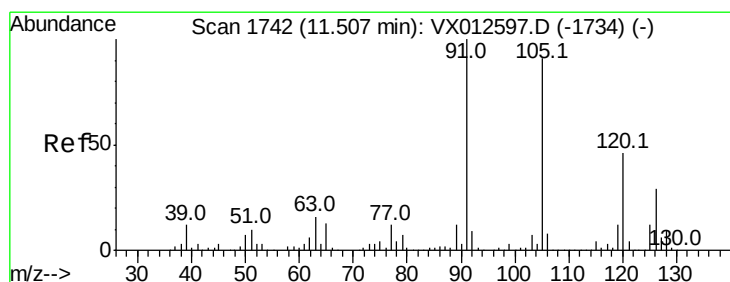
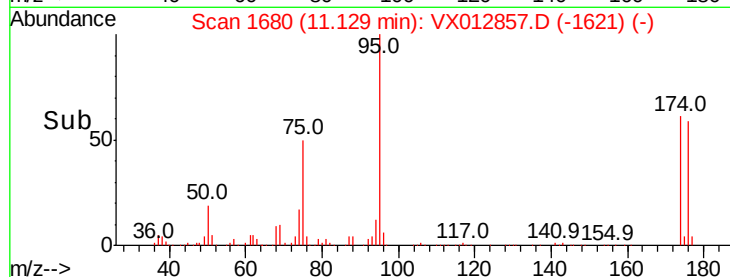
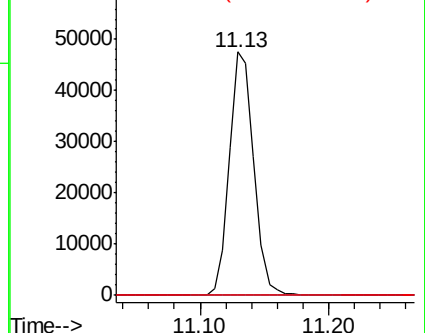
89 0.0 36.3 54.5#



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



#82

4-Chlorotoluene

Concen: 0.203 ug/l

RT: 11.51 min Scan# 1742

Delta R.T. 0.00 min

Lab File: VX012857.D

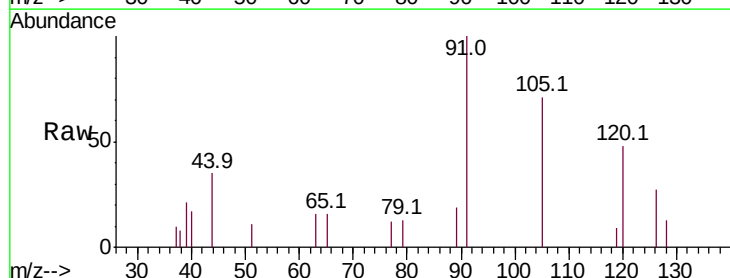
Acq: 07 Oct 2019 23:00

Tgt Ion: 91 Resp: 1292

Ion Ratio Lower Upper

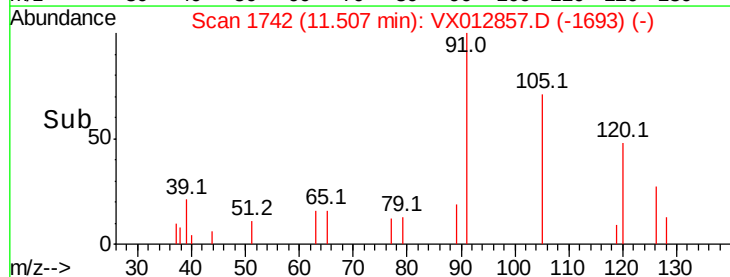
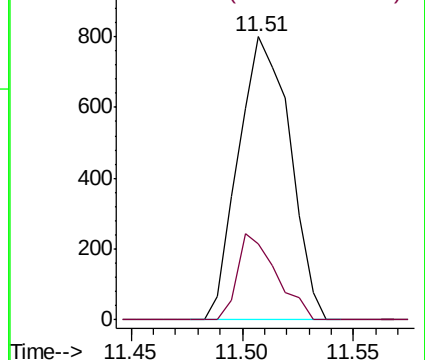
91 100

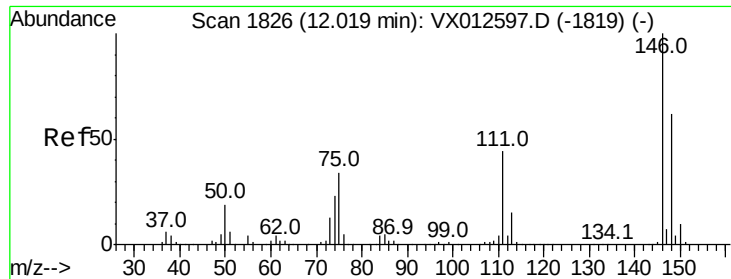
126 22.9 14.4 43.0



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 125.90 (125.60 to 126.60): V

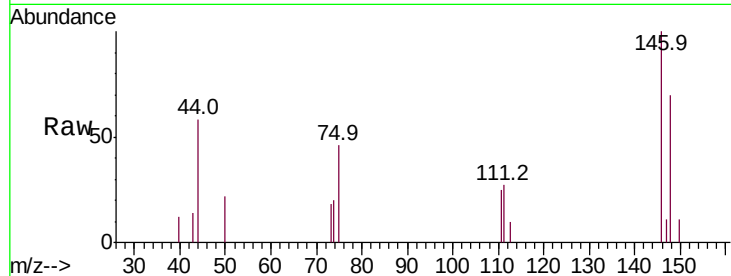




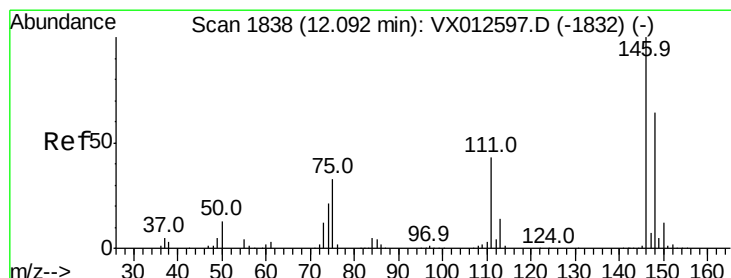
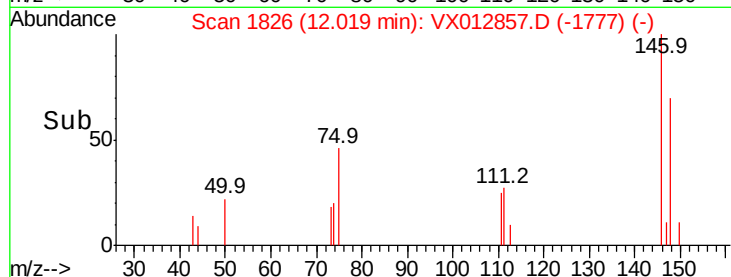
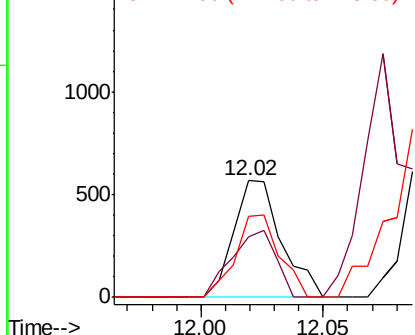
#87
 1,3-Dichlorobenzene
 Concen: 0.238 ug/l
 RT: 12.02 min Scan# 1826
 Delta R.T. 0.00 min
 Lab File: VX012857.D
 Acq: 07 Oct 2019 23:00

Instrument :
 MSVOA_X
 ClientSampled :

Tot Ion:146 Resp: 769
 Ion Ratio Lower Upper
 146 100
 111 53.1 21.3 64.0
 148 65.1 32.4 97.2

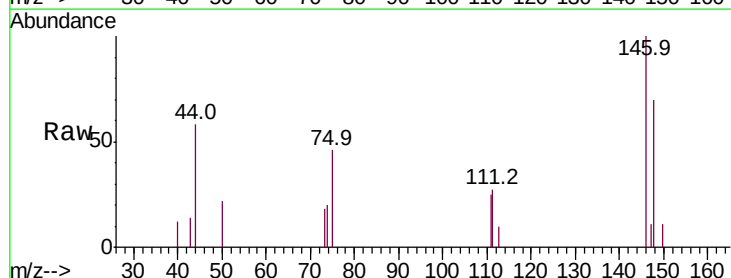


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

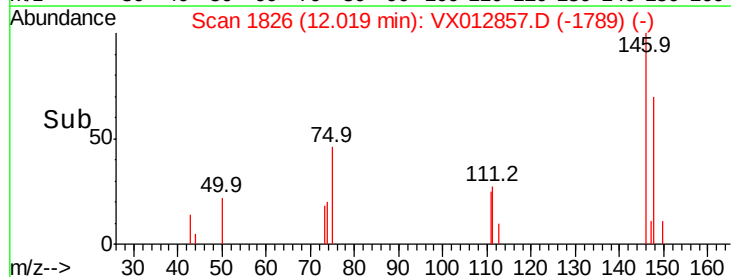
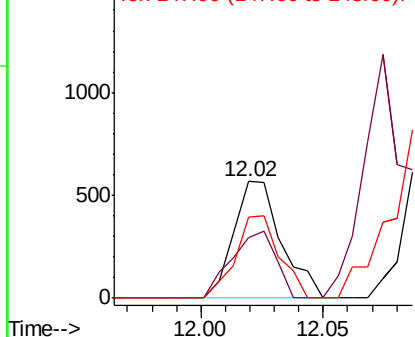


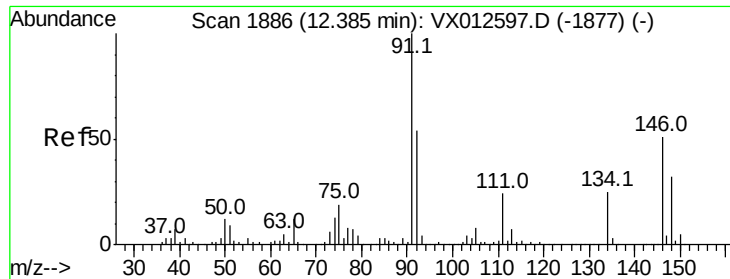
#88
 1,4-Dichlorobenzene
 Concen: 0.235 ug/l
 RT: 12.02 min Scan# 1826
 Delta R.T. -0.07 min
 Lab File: VX012857.D
 Acq: 07 Oct 2019 23:00

Tgt Ion:146 Resp: 769
 Ion Ratio Lower Upper
 146 100
 111 53.1 21.1 63.3
 148 65.1 32.1 96.5



Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V





#89

n-Butylbenzene

Concen: 0.215 ug/l

RT: 12.39 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VX012857.D

Acq: 07 Oct 2019 23:00

Instrument :

MSVOA_X

ClientSampled :

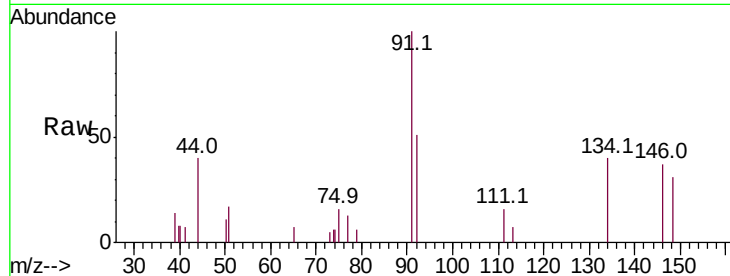
Tot Ion: 91 Resp: 1276

Ion Ratio Lower Upper

91 100

92 40.8 27.7 83.0

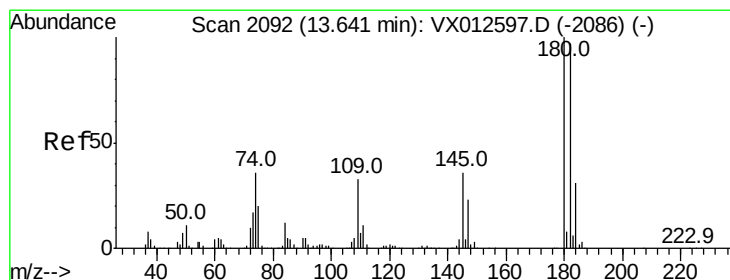
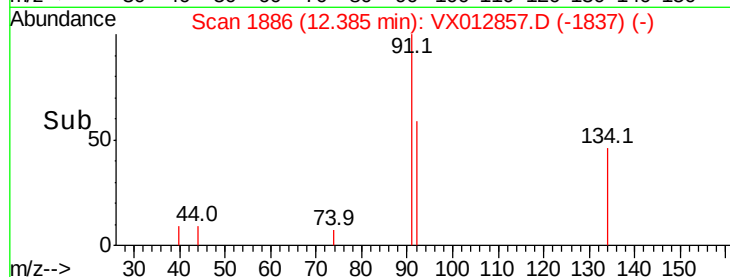
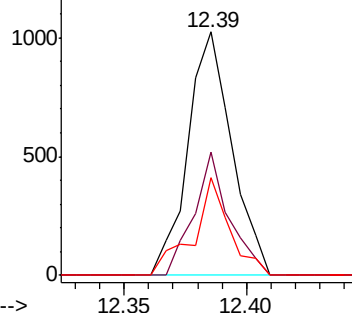
134 33.3 12.9 38.6



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 92.00 (91.70 to 92.70): VX0

Ion 134.00 (133.70 to 134.70): V



#93

1,2,4-Trichlorobenzene

Concen: 0.434 ug/l

RT: 13.64 min Scan# 2092

Delta R.T. 0.00 min

Lab File: VX012857.D

Acq: 07 Oct 2019 23:00

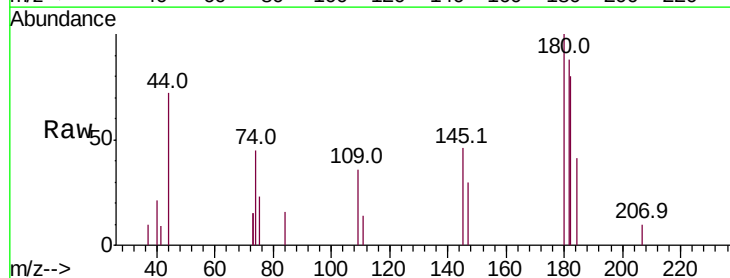
Tgt Ion:180 Resp: 856

Ion Ratio Lower Upper

180 100

182 120.1 47.0 141.0

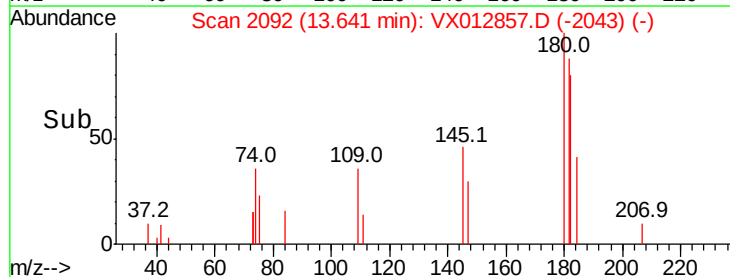
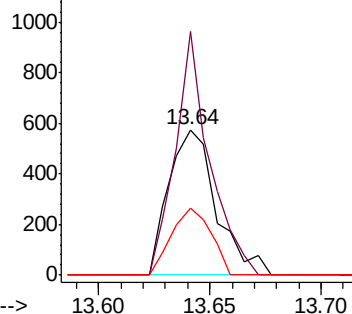
145 38.0 16.8 50.4

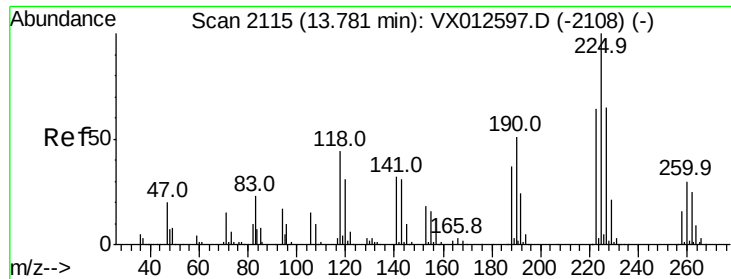


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: 0.353 ug/l

RT: 13.78 min Scan# 2114

Delta R.T. -0.01 min

Lab File: VX012857.D

Acq: 07 Oct 2019 23:00

Instrument :

MSVOA_X

ClientSampled :

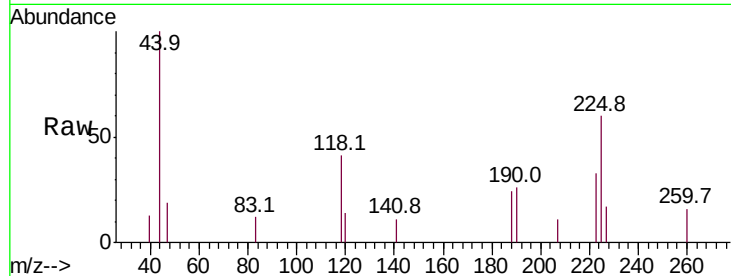
Tot Ion:225 Resp: 300

Ion Ratio Lower Upper

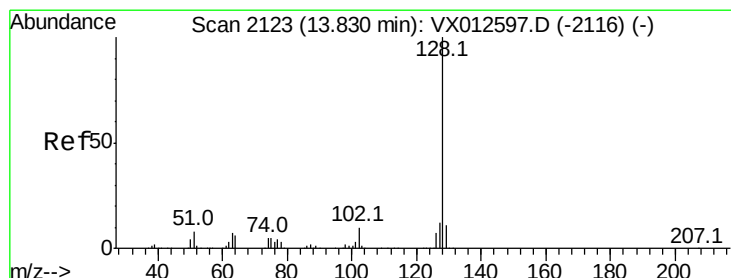
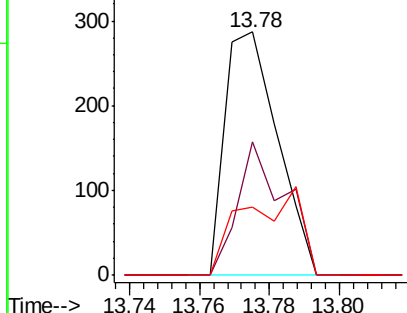
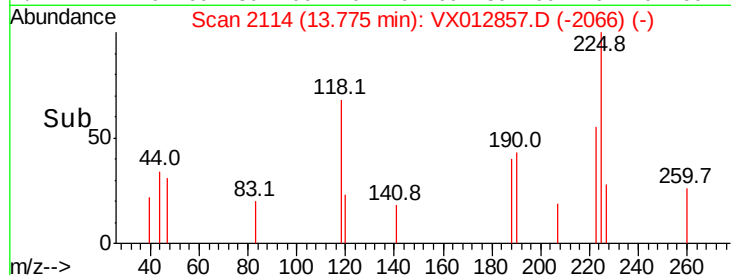
225 100

223 49.0 32.0 96.2

227 39.3 31.9 95.5



Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 0.324 ug/l

RT: 13.84 min Scan# 2124

Delta R.T. 0.01 min

Lab File: VX012857.D

Acq: 07 Oct 2019 23:00

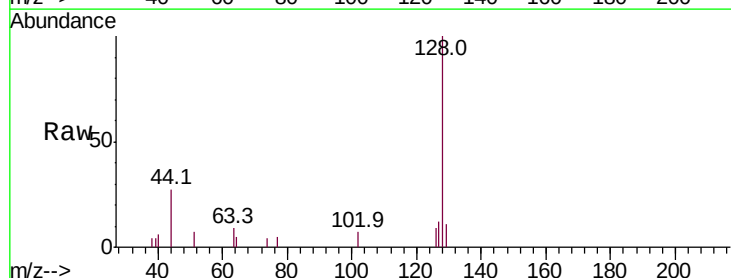
Tgt Ion:128 Resp: 2316

Ion Ratio Lower Upper

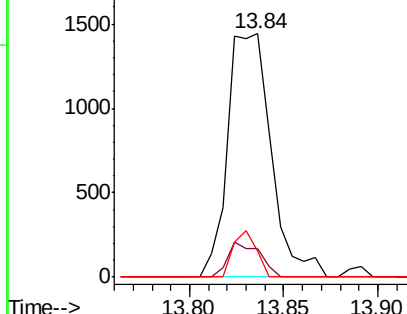
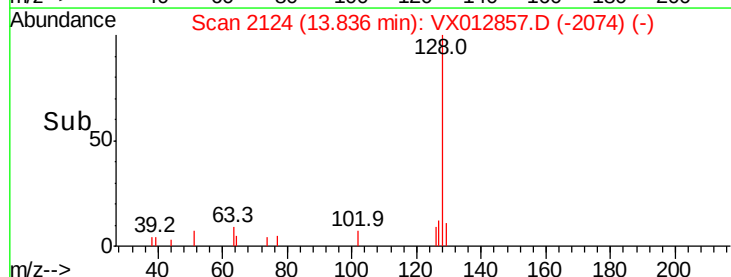
128 100

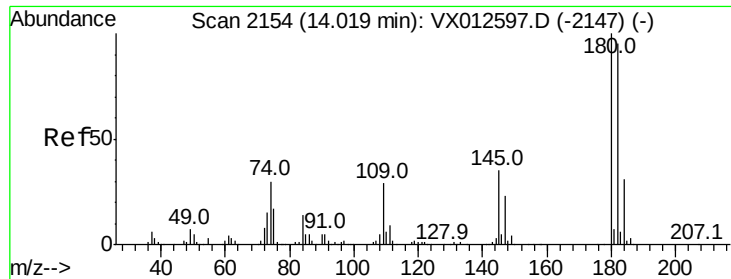
127 10.6 10.2 15.4

129 10.0 8.8 13.2



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





#96
 1,2,3-Trichlorobenzene
 Concen: 0.293 ug/l
 RT: 14.02 min Scan# 2154
 Delta R.T. 0.01 min
 Lab File: VX012857.D
 Acq: 07 Oct 2019 23:00

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	115.5	47.1	141.3
145	40.2	18.0	54.0

