

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX122319\
 Data File : VX014229.D
 Acq On : 24 Dec 2019 02:51
 Operator : JC/SP
 Sample : K6401-06 800X
 Misc : 5.27g/10mL/100uL/5.00mL/MSVOA_X/MEOH
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 C0B40

Quant Time: Dec 24 03:50:30 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121319W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 17 03:01:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	561117	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	859198	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	779680	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	351563	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	308968	48.58	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.16%	
35) Dibromofluoromethane	5.49	113	254757	48.78	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.56%	
50) Toluene-d8	8.71	98	1023357	50.33	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.66%	
62) 4-Bromofluorobenzene	11.13	95	348744	46.92	ug/l	0.00
Spiked Amount 50.000			Recovery	=	93.84%	

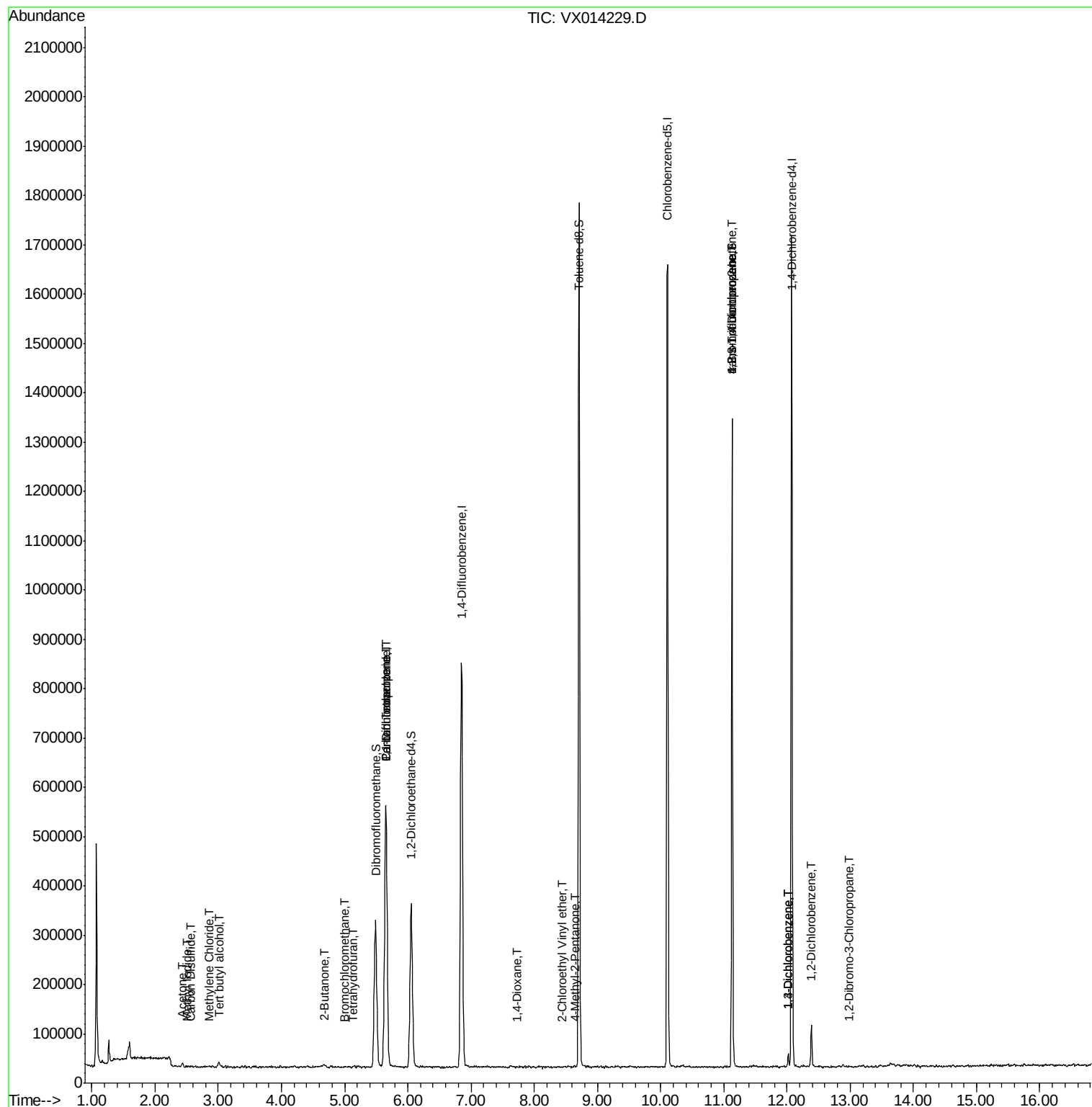
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	2.51	142	605	2.703	ug/l #	56
11) Tert butyl alcohol	3.01	59	5478	3.986	ug/l #	89
16) Acetone	2.43	43	8368	2.027	ug/l	95
17) Carbon Disulfide	2.56	76	425	0.778	ug/l #	1
20) Methylene Chloride	2.85	84	1923	0.296	ug/l #	72
25) 2-Butanone	4.68	43	2918	0.573	ug/l #	86
28) Bromochloromethane	4.99	49	1002	0.695	ug/l #	10
29) Tetrahydrofuran	5.13	42	1047	0.368	ug/l #	65
36) 1,1-Dichloropropene	5.65	75	40009	5.075	ug/l #	51
38) Carbon Tetrachloride	5.65	117	48554	6.761	ug/l #	16
49) 1,4-Dioxane	7.73	88	254	1.769	ug/l #	75
51) 4-Methyl-2-Pentanone	8.64	43	1939	0.214	ug/l	97
58) 2-Chloroethyl Vinyl ether	8.44	63	749	0.205	ug/l	93
76) 1,2,3-Trichloropropane	11.13	75	169582	22.219	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	169582	62.713	ug/l #	12
87) 1,3-Dichlorobenzene	12.03	146	9926	0.832	ug/l	97
88) 1,4-Dichlorobenzene	12.03	146	9926	0.818	ug/l	97
91) 1,2-Dichlorobenzene	12.39	146	28843	2.400	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	12.98	75	431	0.227	ug/l	59

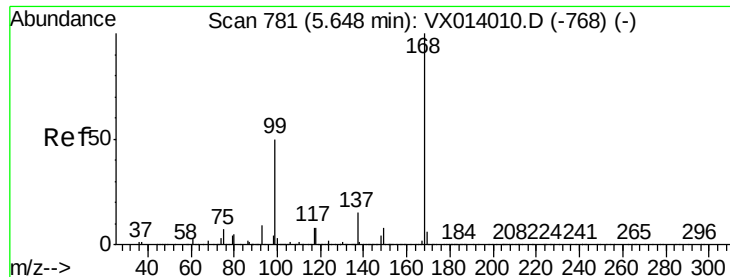
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Dec 17 03:01:07 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: VX014229.D

Acq: 24 Dec 2019 02:51

Instrument :

MSVOA_X

ClientSampleId :

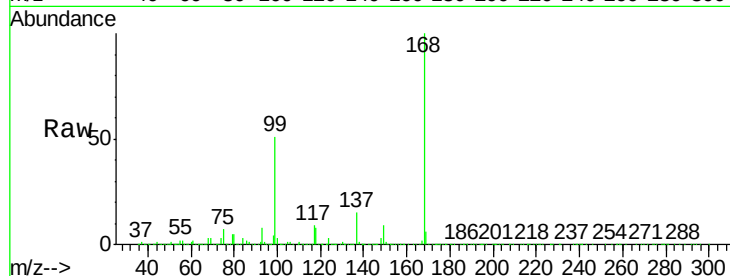
C0B40

Tgt Ion:168 Resp: 561117

Ion Ratio Lower Upper

168 100

99 50.7 40.3 60.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

200000

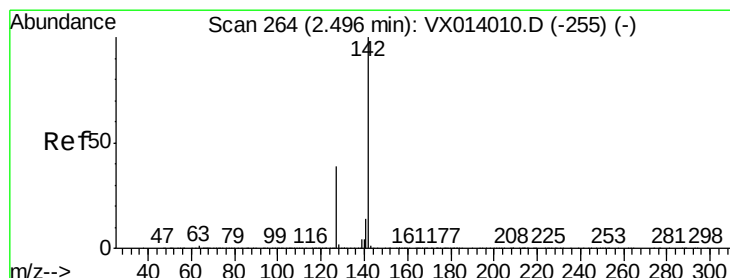
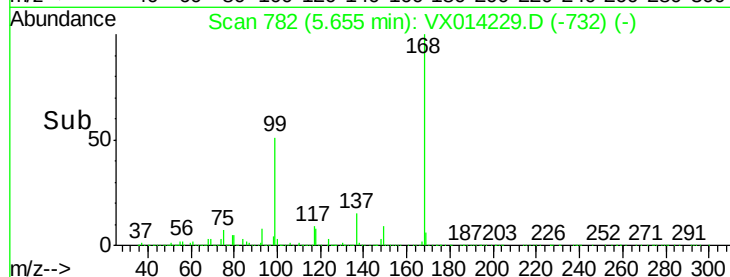
150000

100000

50000

0

Time-->



#10

Methyl Iodide

Concen: 2.703 ug/l

RT: 2.51 min Scan# 266

Delta R.T. 0.01 min

Lab File: VX014229.D

Acq: 24 Dec 2019 02:51

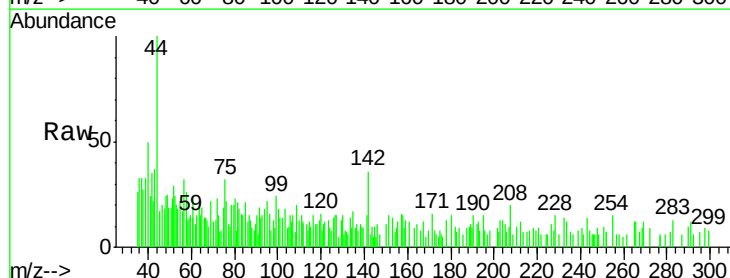
Tgt Ion:142 Resp: 605

Ion Ratio Lower Upper

142 100

127 31.7 31.6 47.4

141 67.8 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

500

400

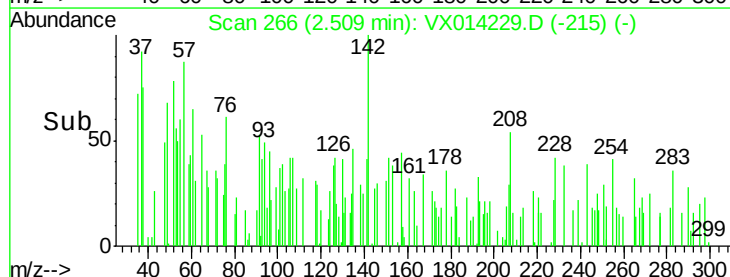
300

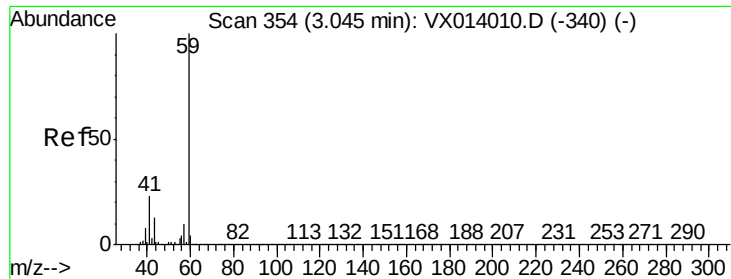
200

100

0

Time-->



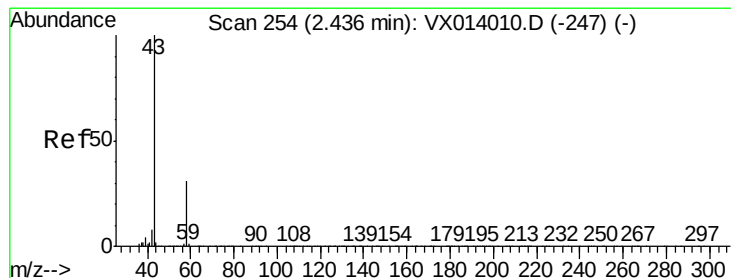
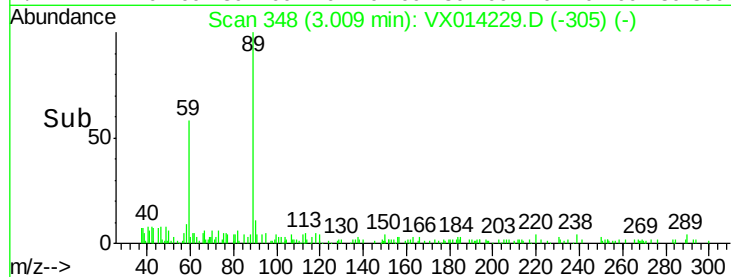
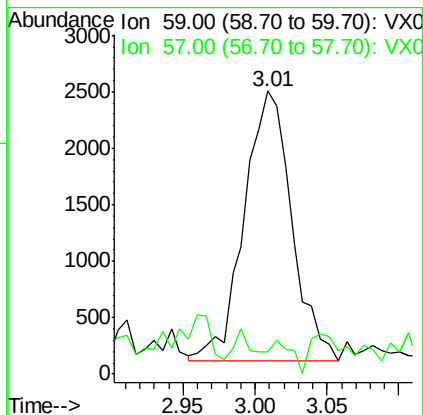
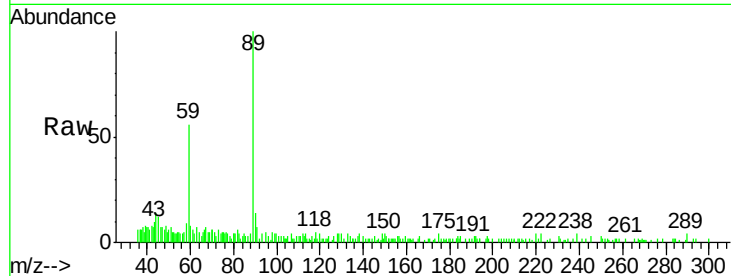


#11

Tert butyl alcohol
 Concen: 3.986 ug/l
 RT: 3.01 min Scan# 348
 Delta R.T. -0.04 min
 Lab File: VX014229.D
 Acq: 24 Dec 2019 02:51

Instrument :
 MSVOA_X
 ClientSampleId :
 C0B40

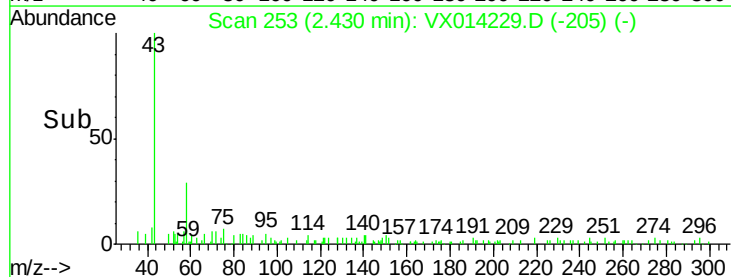
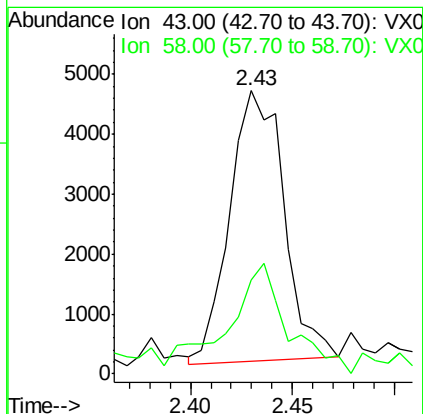
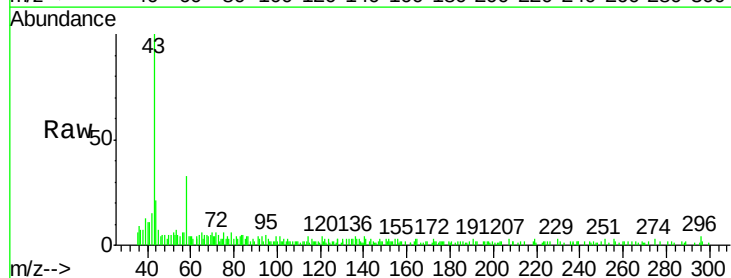
Tgt Ion: 59 Resp: 5478
 Ion Ratio Lower Upper
 59 100
 57 6.3 8.4 12.6#

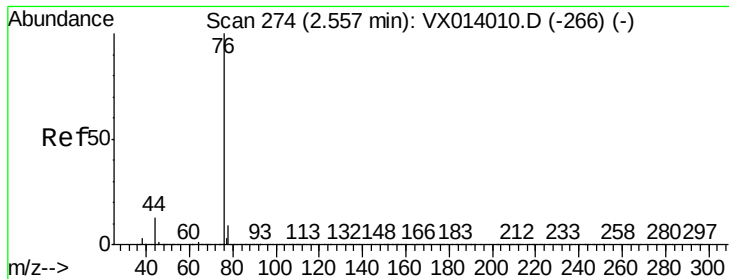


#16

Acetone
 Concen: 2.027 ug/l
 RT: 2.43 min Scan# 253
 Delta R.T. -0.01 min
 Lab File: VX014229.D
 Acq: 24 Dec 2019 02:51

Tgt Ion: 43 Resp: 8368
 Ion Ratio Lower Upper
 43 100
 58 28.4 24.9 37.3





#17

Carbon Disulfide

Concen: 0.778 ug/l

RT: 2.56 min Scan# 274

Delta R.T. 0.00 min

Lab File: VX014229.D

Acq: 24 Dec 2019 02:51

Instrument :

MSVOA_X

ClientSampleId :

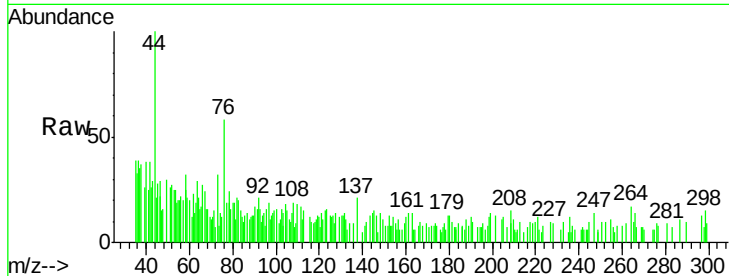
C0B40

Tgt Ion: 76 Resp: 425

Ion Ratio Lower Upper

76 100

78 54.4 7.2 10.8#

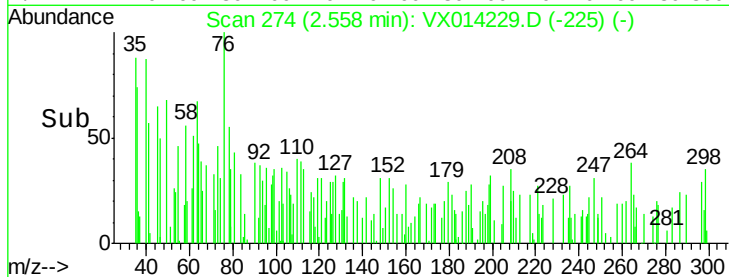


Abundance Ion 75.90 (75.60 to 76.60): VX0

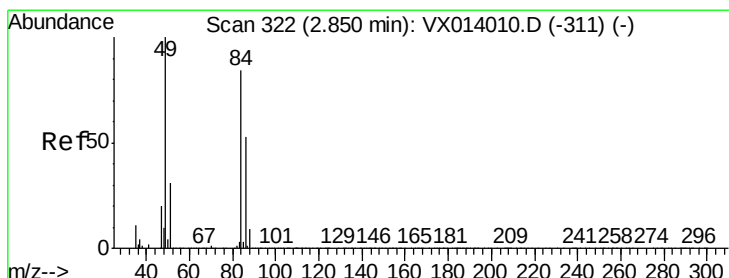
Ion 77.90 (77.60 to 78.60): VX0

2.56

2.58



Time-->



#20

Methylene Chloride

Concen: 0.296 ug/l

RT: 2.85 min Scan# 322

Delta R.T. 0.00 min

Lab File: VX014229.D

Acq: 24 Dec 2019 02:51

Tgt Ion: 84 Resp: 1923

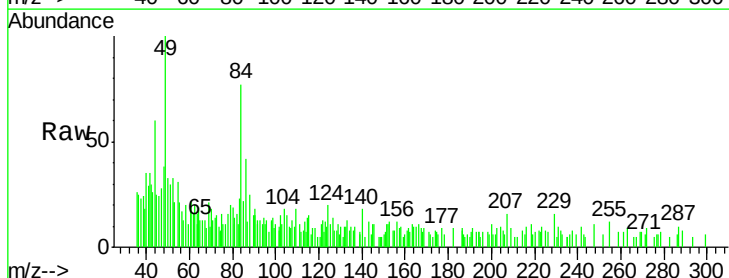
Ion Ratio Lower Upper

84 100

49 96.4 95.8 143.6

51 19.5 29.8 44.8#

86 31.5 50.8 76.2#



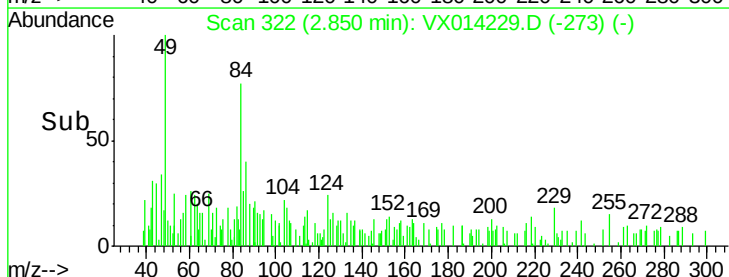
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

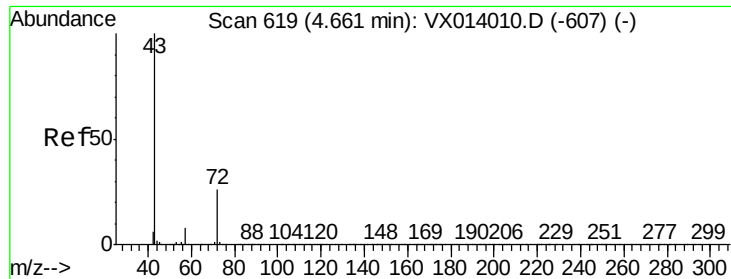
Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0

2.85



Time-->



#25

2-Butanone

Concen: 0.573 ug/l

RT: 4.68 min Scan# 622

Delta R.T. 0.02 min

Lab File: VX014229.D

Acq: 24 Dec 2019 02:51

Instrument :

MSVOA_X

ClientSampled :

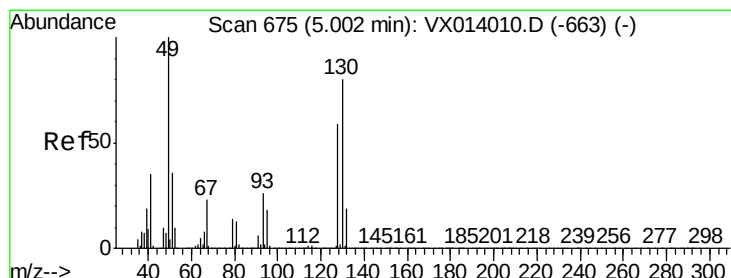
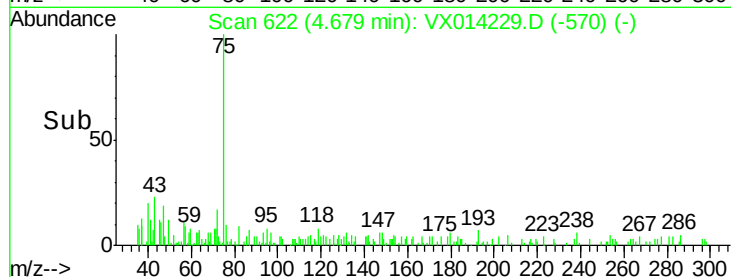
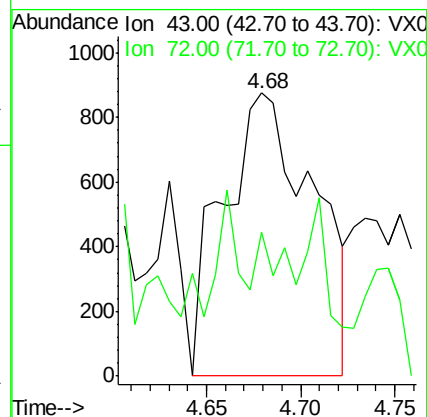
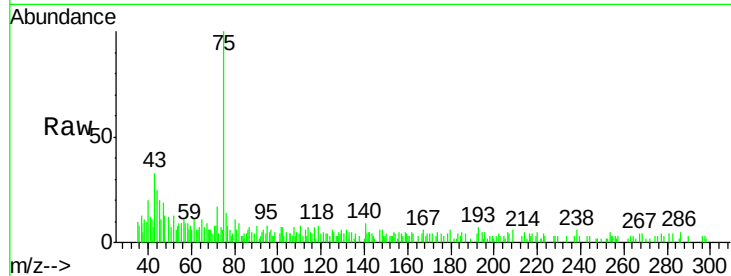
C0B40

Tgt Ion: 43 Resp: 2918

Ion Ratio Lower Upper

43 100

72 33.4 21.0 31.4#



#28

Bromochloromethane

Concen: 0.695 ug/l

RT: 4.99 min Scan# 673

Delta R.T. -0.01 min

Lab File: VX014229.D

Acq: 24 Dec 2019 02:51

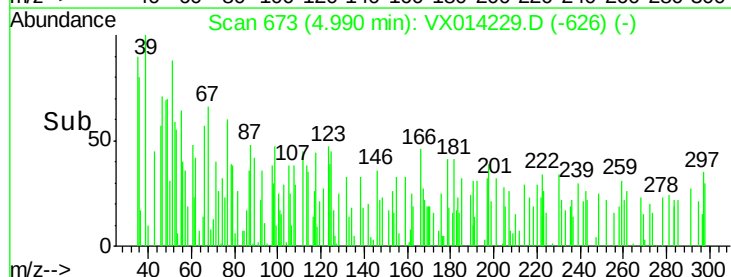
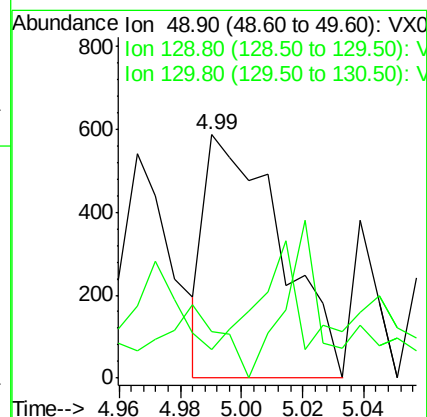
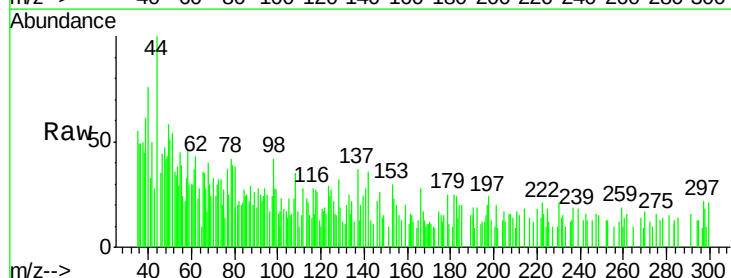
Tgt Ion: 49 Resp: 1002

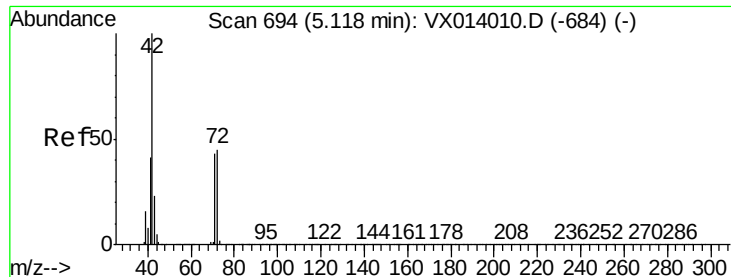
Ion Ratio Lower Upper

49 100

129 22.0 0.0 5.0#

130 0.0 64.6 97.0#





#29

Tetrahydrofuran

Concen: 0.368 ug/l

RT: 5.13 min Scan# 696

Delta R.T. 0.01 min

Lab File: VX014229.D

Acq: 24 Dec 2019 02:51

Instrument :

MSVOA_X

ClientSampleId :

C0B40

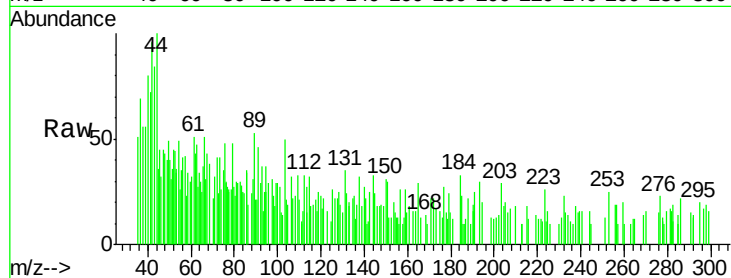
Tgt Ion: 42 Resp: 1047

Ion Ratio Lower Upper

42 100

72 48.3 35.8 53.8

71 0.0 33.6 50.4#



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

800

600

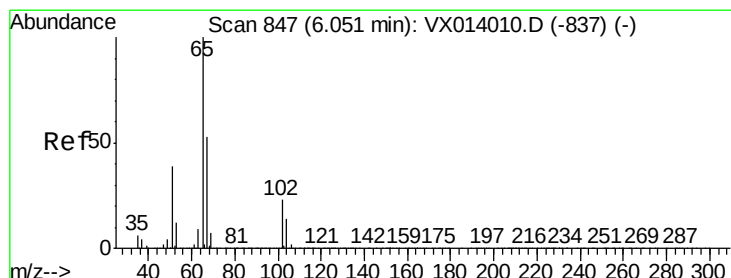
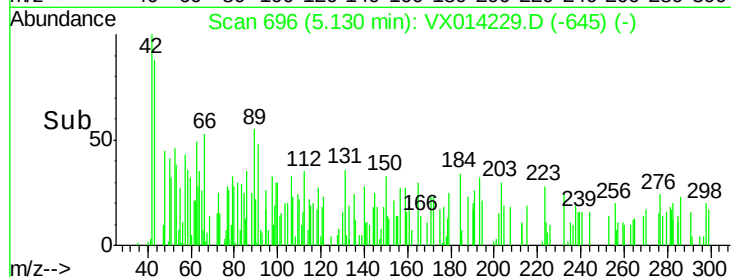
400

200

0

5.08 5.10 5.12 5.14 5.16

Time-->



#33

1,2-Dichloroethane-d4

Concen: 48.584 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX014229.D

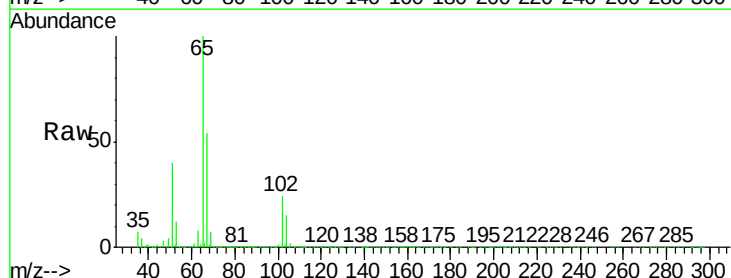
Acq: 24 Dec 2019 02:51

Tgt Ion: 65 Resp: 308968

Ion Ratio Lower Upper

65 100

67 53.7 0.0 106.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

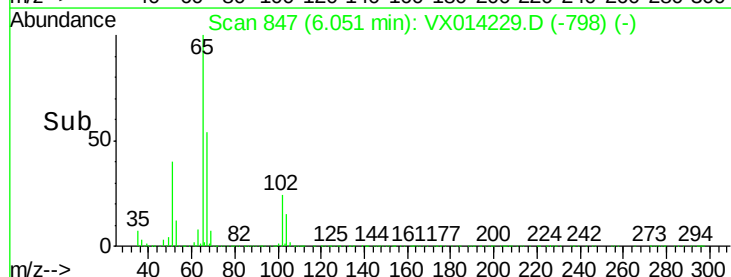
100000

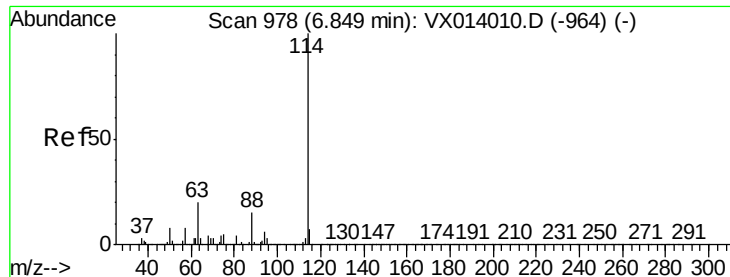
50000

0

6.00 6.10 6.20

Time-->





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX014229.D

Acq: 24 Dec 2019 02:51

Instrument :

MSVOA_X

ClientSampleId :

C0B40

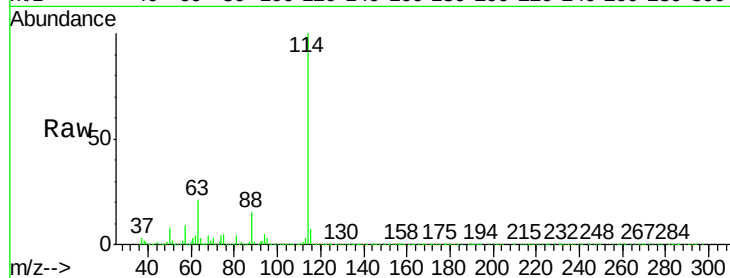
Tgt Ion:114 Resp: 859198

Ion Ratio Lower Upper

114 100

63 20.6 0.0 40.8

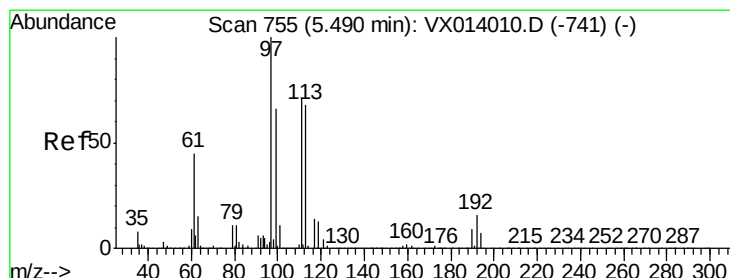
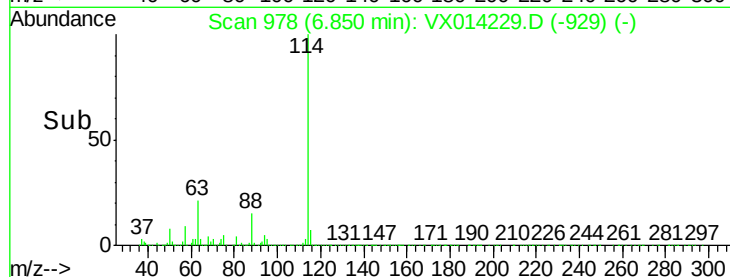
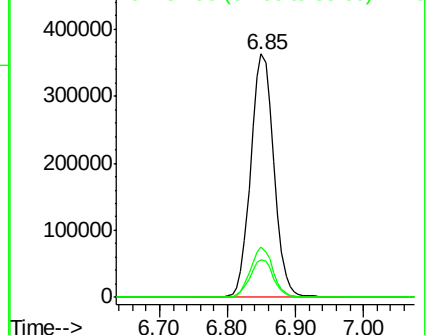
88 15.4 0.0 30.4



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: 48.776 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014229.D

Acq: 24 Dec 2019 02:51

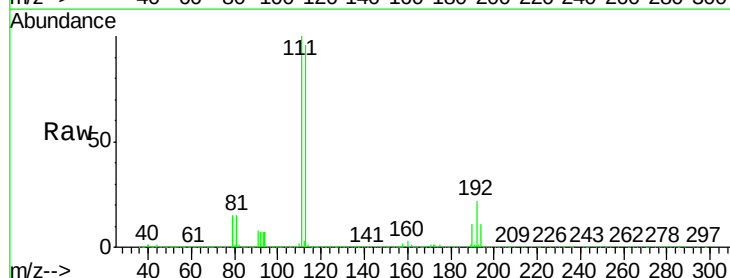
Tgt Ion:113 Resp: 254757

Ion Ratio Lower Upper

113 100

111 103.1 82.0 123.0

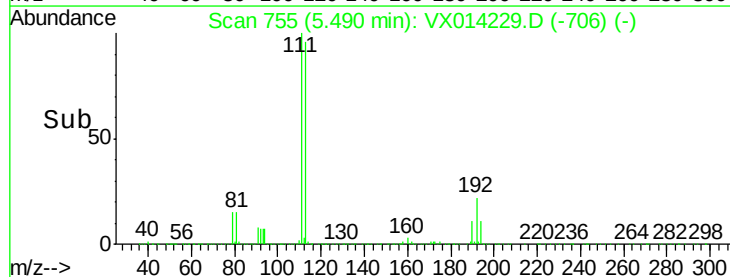
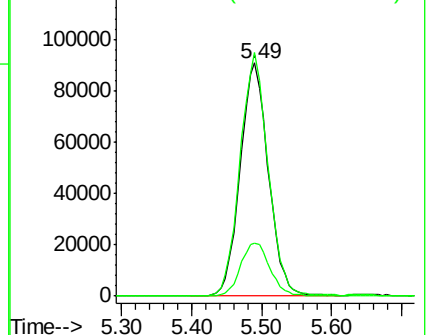
192 23.6 19.3 28.9

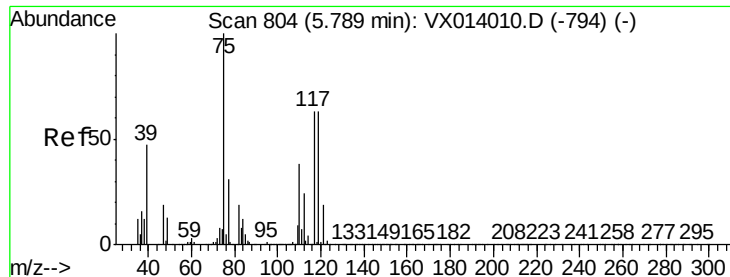


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

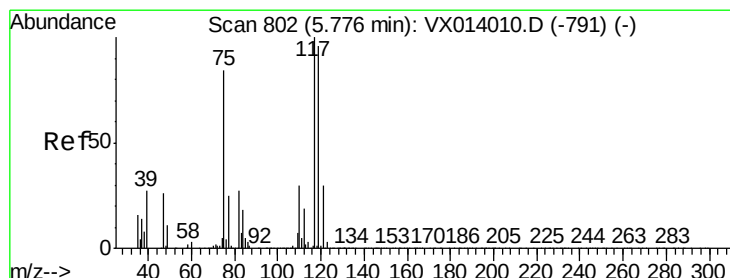
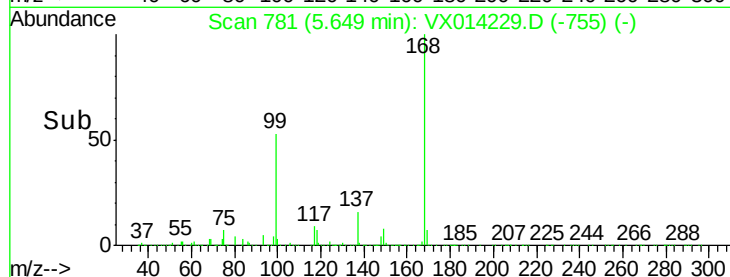
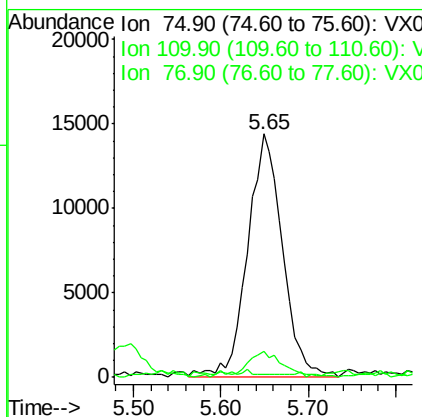
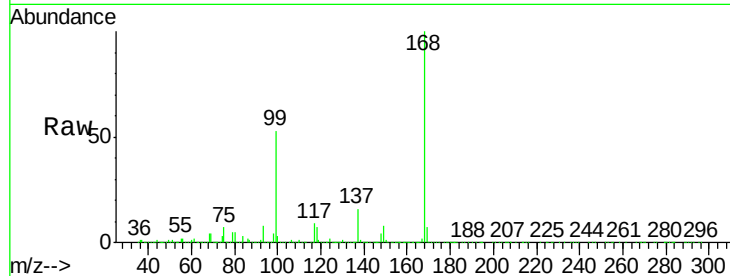




#36
 1,1-Dichloropropene
 Concen: 5.075 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.14 min
 Lab File: VX014229.D
 Acq: 24 Dec 2019 02:51

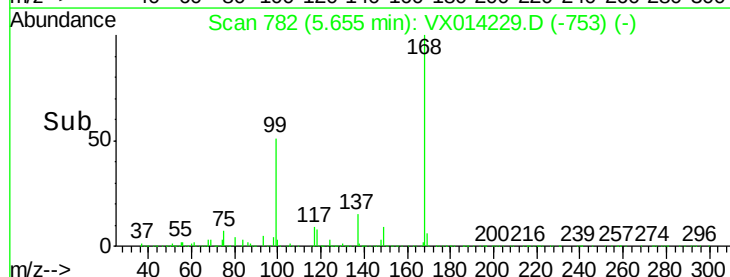
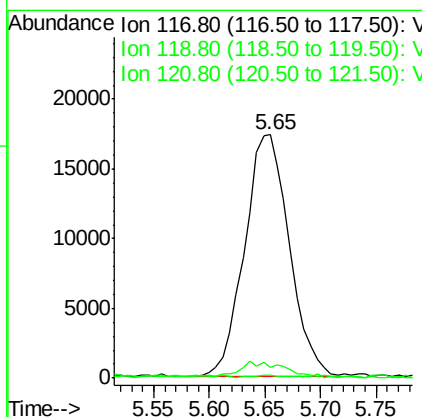
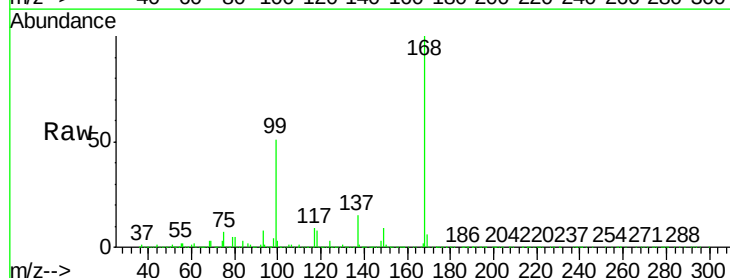
Instrument :
 MSVOA_X
 ClientSampleId :
 C0B40

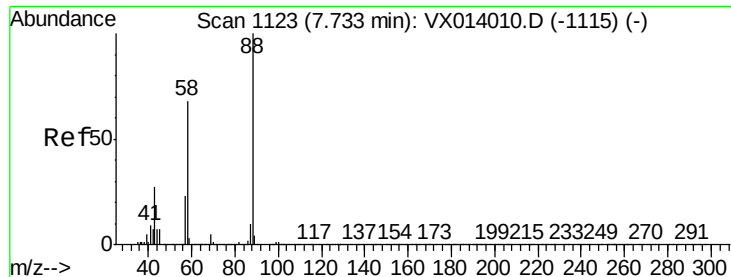
Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.7	18.3	54.9#
77	0.5	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 6.761 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.12 min
 Lab File: VX014229.D
 Acq: 24 Dec 2019 02:51

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.0	76.2	114.4#
121	0.5	23.6	35.4#





#49

1,4-Dioxane

Concen: 1.769 ug/l

RT: 7.73 min Scan# 1123

Delta R.T. 0.00 min

Lab File: VX014229.D

Acq: 24 Dec 2019 02:51

Instrument :

MSVOA_X

ClientSampled :

C0B40

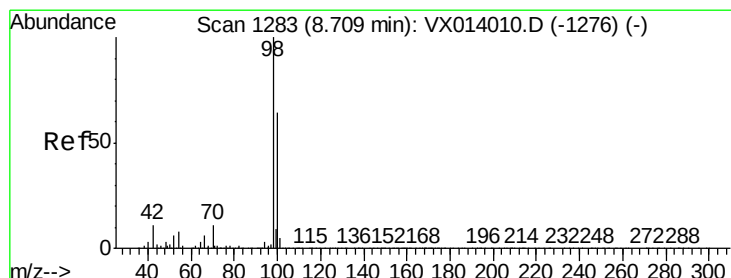
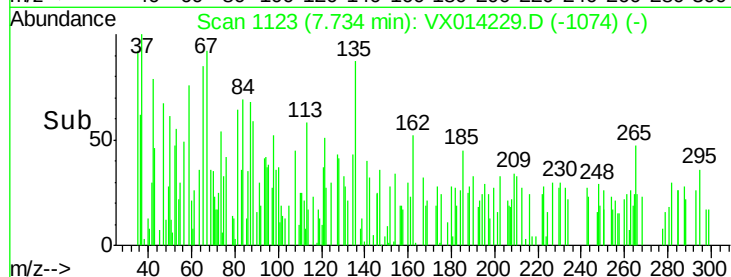
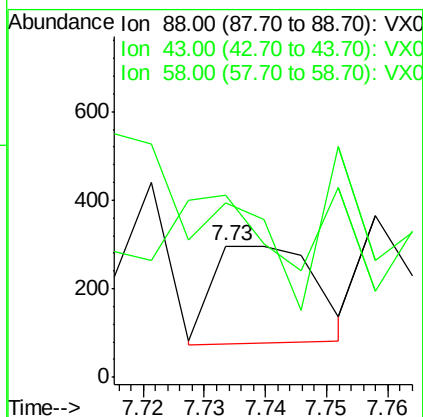
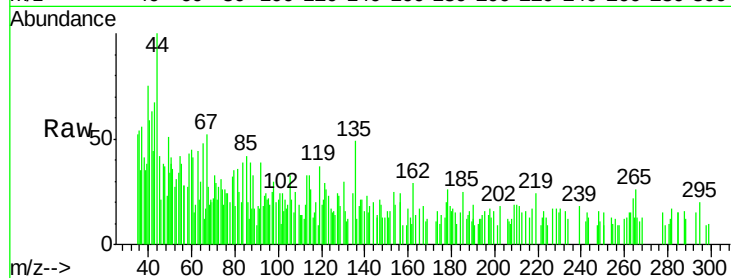
Tgt Ion: 88 Resp: 254

Ion Ratio Lower Upper

88 100

43 0.0 26.5 39.7#

58 63.4 56.8 85.2



#50

Toluene-d8

Concen: 50.327 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014229.D

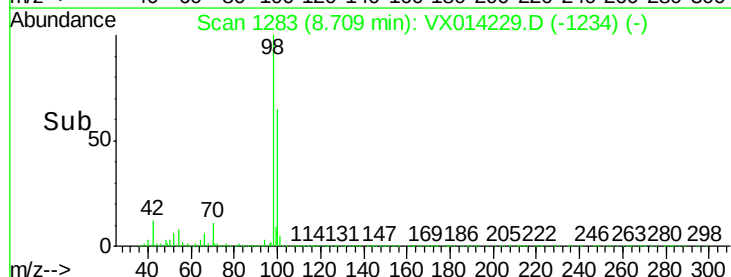
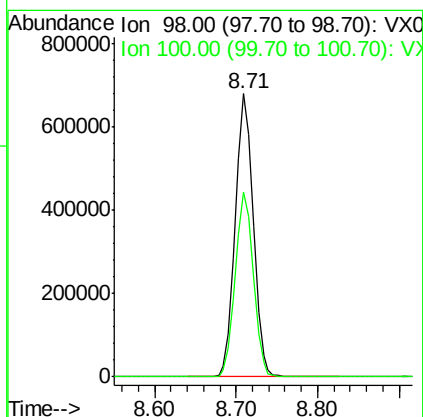
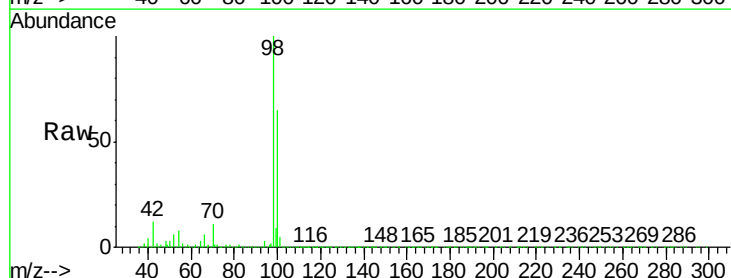
Acq: 24 Dec 2019 02:51

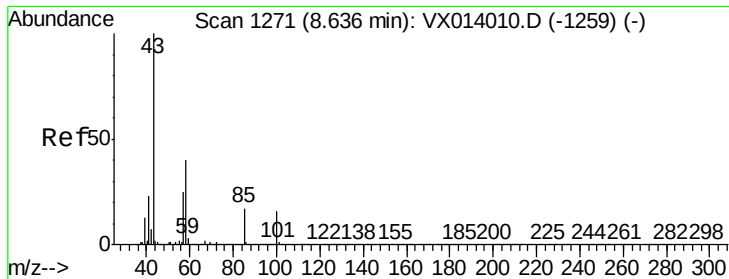
Tgt Ion: 98 Resp: 1023357

Ion Ratio Lower Upper

98 100

100 65.6 52.9 79.3

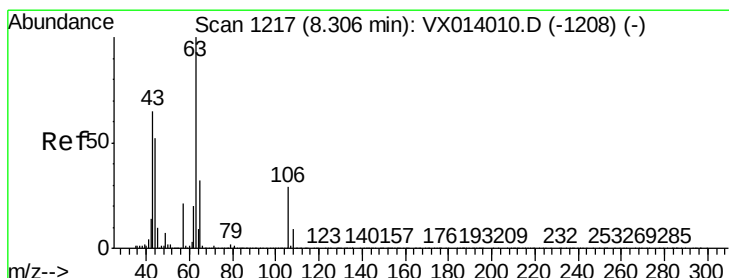
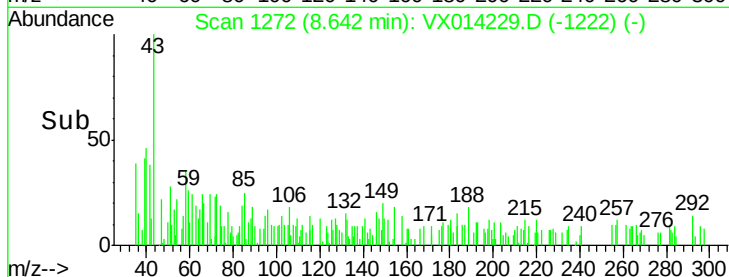
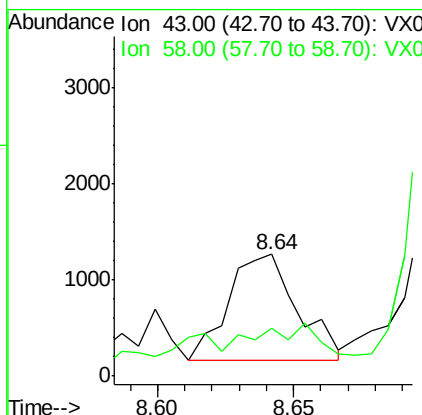
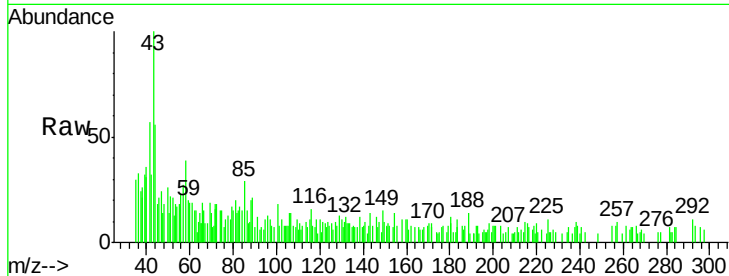




#51
 4-Methyl-2-Pentanone
 Concen: 0.214 ug/l
 RT: 8.64 min Scan# 1272
 Delta R.T. 0.01 min
 Lab File: VX014229.D
 Acq: 24 Dec 2019 02:51

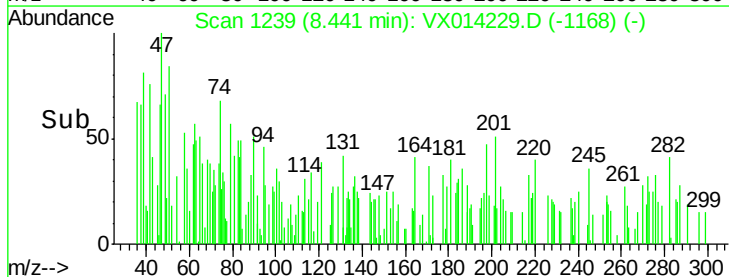
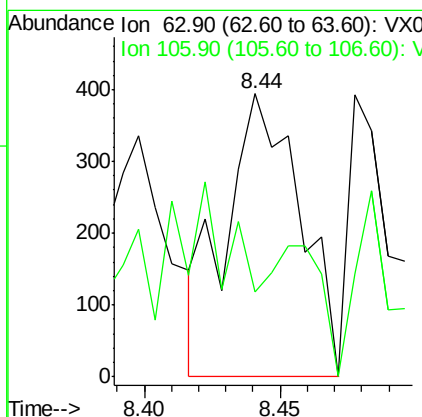
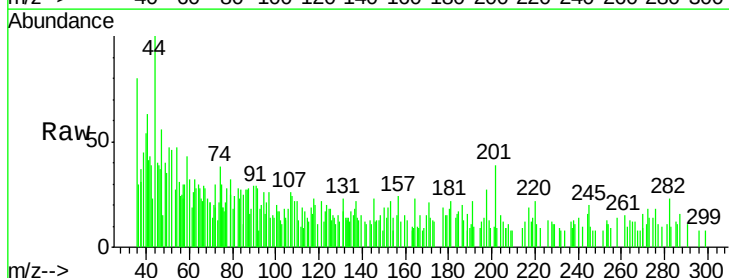
Instrument :
 MSVOA_X
 ClientSampleId :
 C0B40

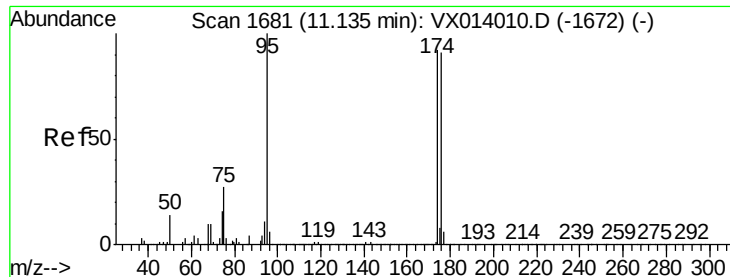
Tgt Ion: 43 Resp: 1939
 Ion Ratio Lower Upper
 43 100
 58 38.5 32.2 48.2



#58
 2-Chloroethyl Vinyl ether
 Concen: 0.205 ug/l
 RT: 8.44 min Scan# 1239
 Delta R.T. 0.13 min
 Lab File: VX014229.D
 Acq: 24 Dec 2019 02:51

Tgt Ion: 63 Resp: 749
 Ion Ratio Lower Upper
 63 100
 106 24.8 23.0 34.6





#62

4-Bromofluorobenzene

Concen: 46.918 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.01 min

Lab File: VX014229.D

Acq: 24 Dec 2019 02:51

Instrument :

MSVOA_X

ClientSampleId :

C0B40

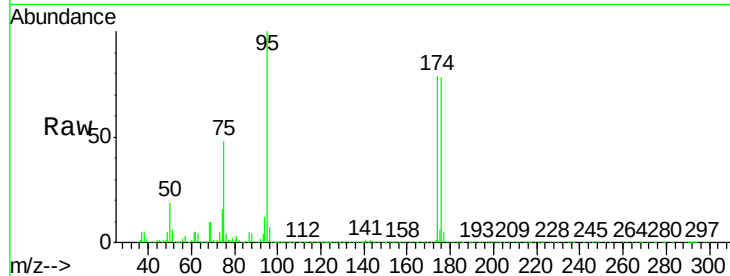
Tgt Ion: 95 Resp: 348744

Ion Ratio Lower Upper

95 100

174 88.8 0.0 175.8

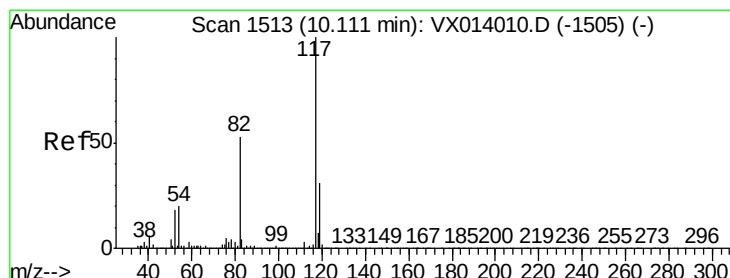
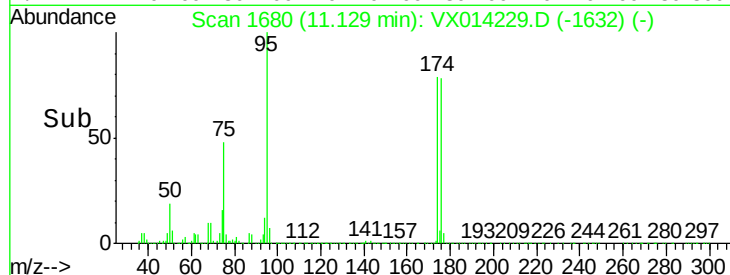
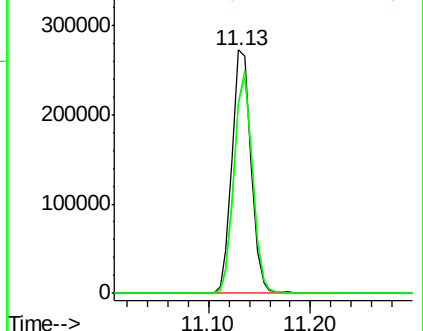
176 86.5 0.0 173.0



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: VX014229.D

Acq: 24 Dec 2019 02:51

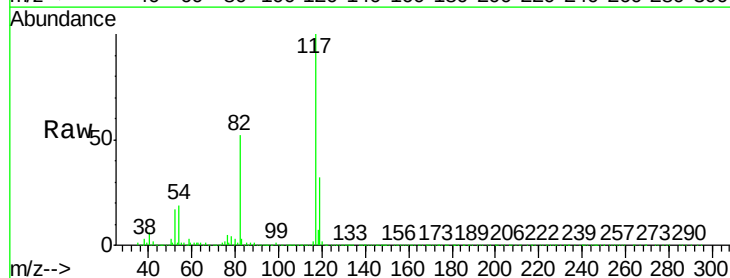
Tgt Ion: 117 Resp: 779680

Ion Ratio Lower Upper

117 100

82 51.6 42.2 63.4

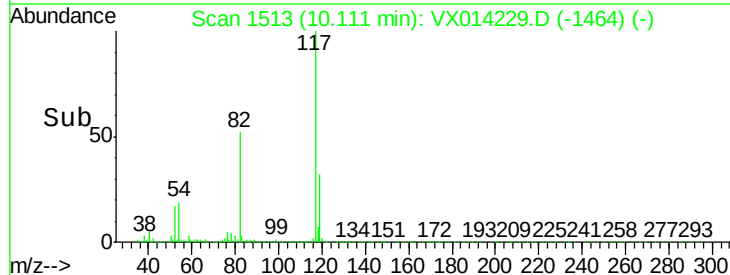
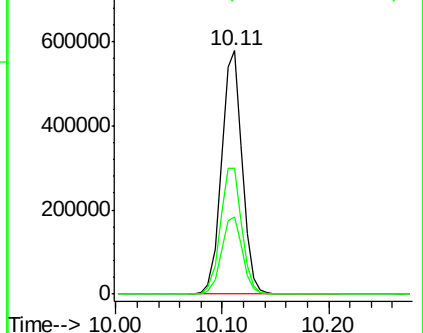
119 31.7 25.1 37.7

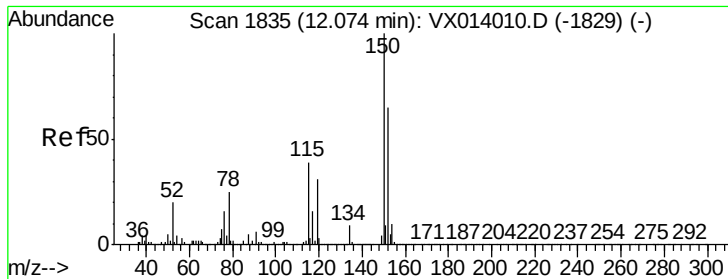


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V

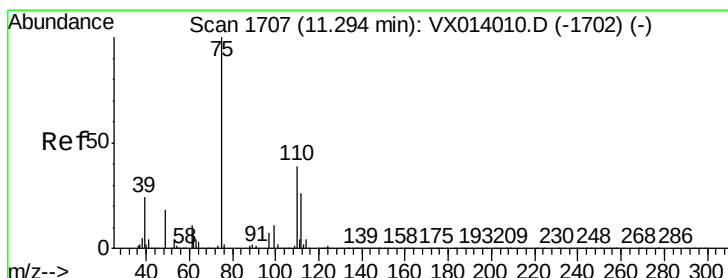
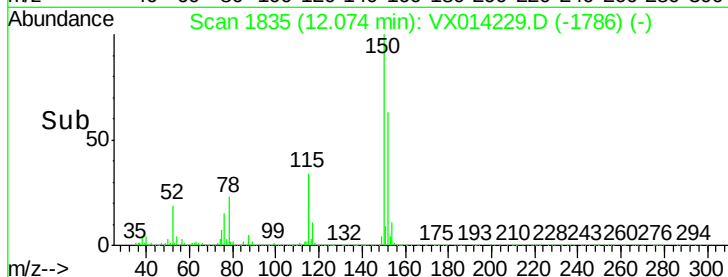
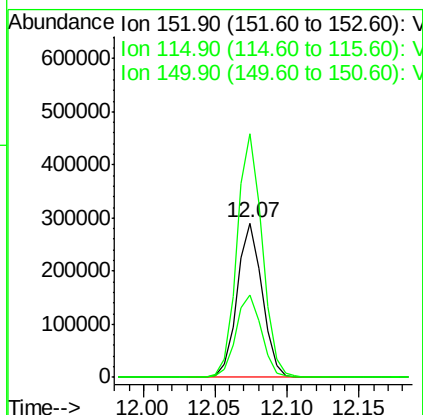
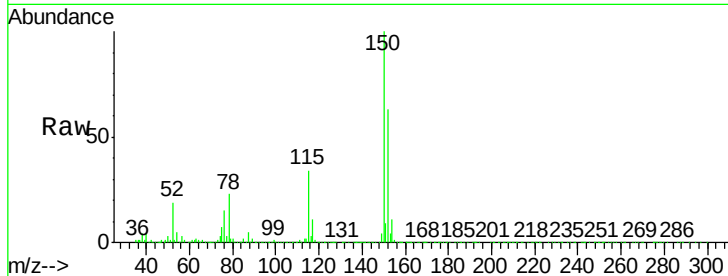




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.07 min Scan# 1835
 Delta R.T. 0.00 min
 Lab File: VX014229.D
 Acq: 24 Dec 2019 02:51

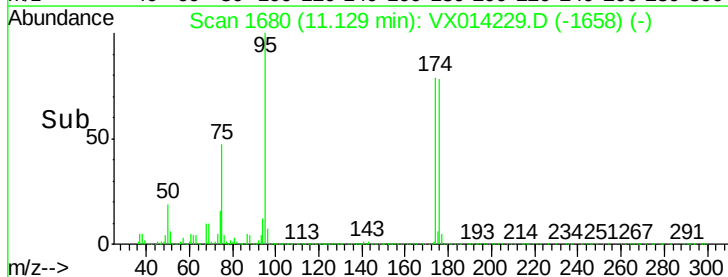
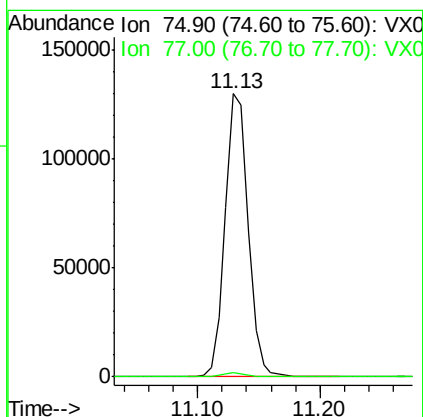
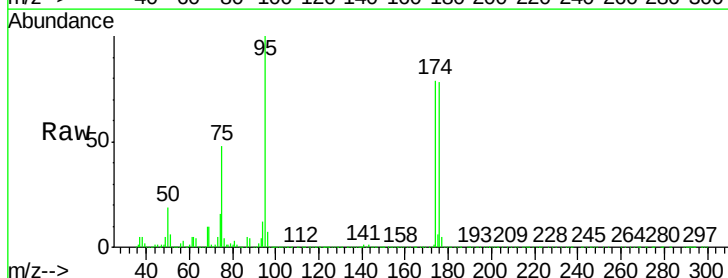
Instrument :
 MSVOA_X
 ClientSampleId :
 C0B40

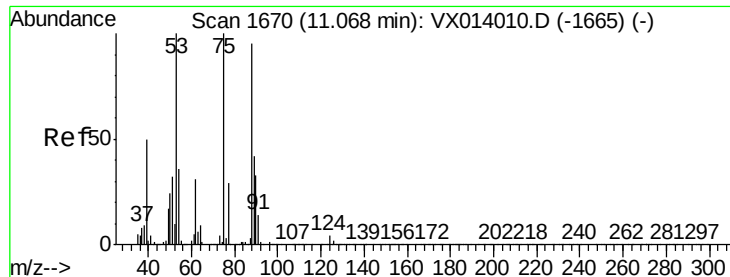
Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.7	38.3	114.9
150	158.4	0.0	345.4



#76
 1,2,3-Trichloropropane
 Concen: 22.219 ug/l
 RT: 11.13 min Scan# 1680
 Delta R.T. -0.16 min
 Lab File: VX014229.D
 Acq: 24 Dec 2019 02:51

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.3	19.3	57.8#

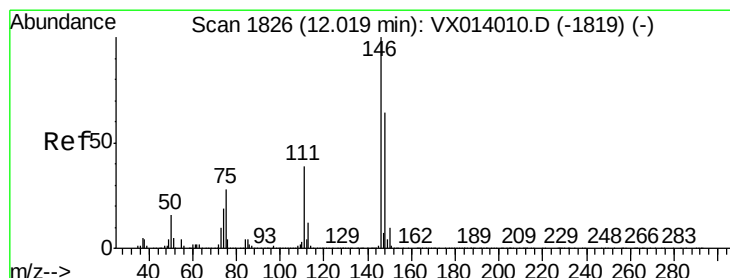
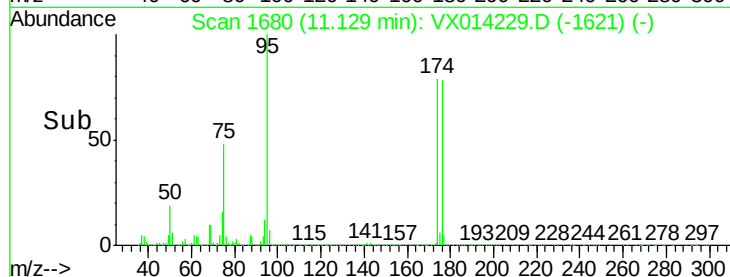
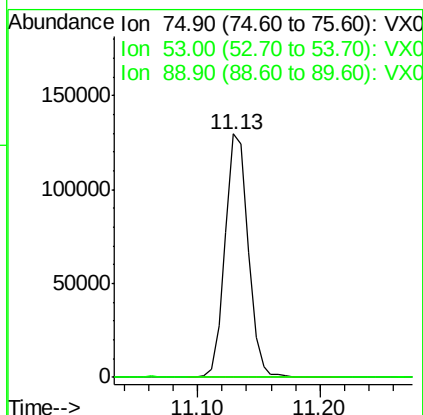
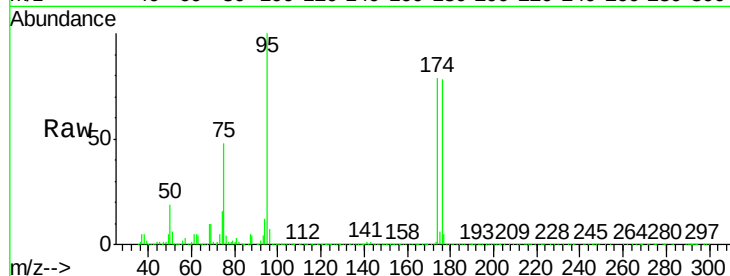




#81
trans-1,4-Dichloro-2-butene
Concen: 62.713 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. 0.06 min
Lab File: VX014229.D
Acq: 24 Dec 2019 02:51

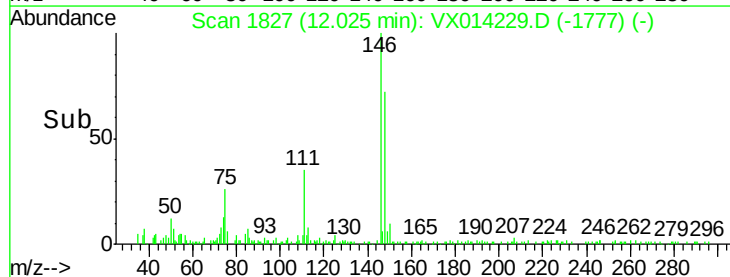
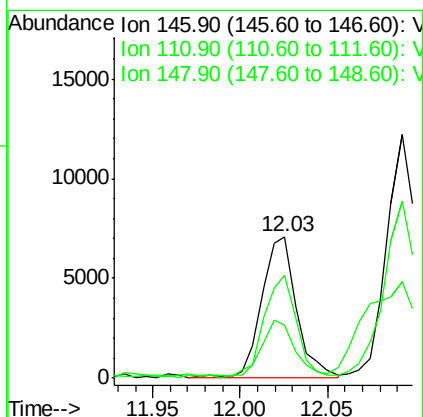
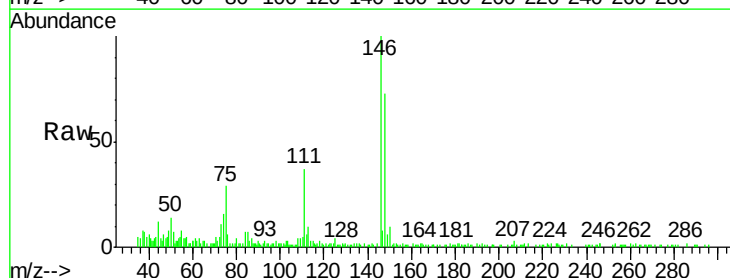
Instrument :
MSVOA_X
ClientSampleId :
C0B40

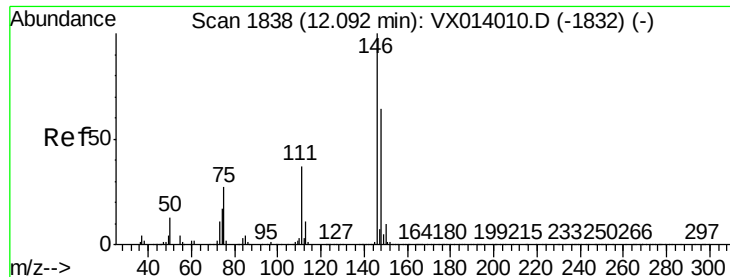
Tgt Ion: 75 Resp: 169582
Ion Ratio Lower Upper
75 100
53 0.2 76.7 115.1#
89 0.0 34.6 51.8#



#87
1,3-Dichlorobenzene
Concen: 0.832 ug/l
RT: 12.03 min Scan# 1827
Delta R.T. 0.01 min
Lab File: VX014229.D
Acq: 24 Dec 2019 02:51

Tgt Ion: 146 Resp: 9926
Ion Ratio Lower Upper
146 100
111 40.3 19.1 57.1
148 62.7 32.3 96.9





#88

1,4-Dichlorobenzene

Concen: 0.818 ug/l

RT: 12.03 min Scan# 1827

Delta R.T. -0.07 min

Lab File: VX014229.D

Acq: 24 Dec 2019 02:51

Instrument :

MSVOA_X

ClientSampleId :

C0B40

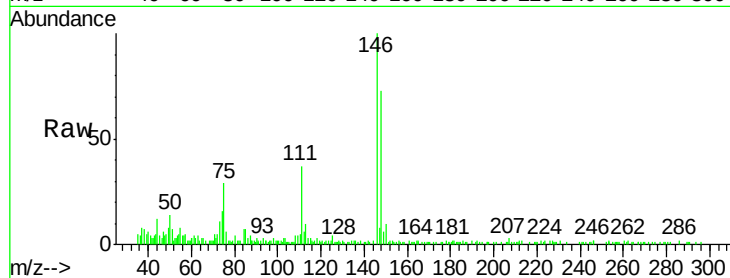
Tgt Ion:146 Resp: 9926

Ion Ratio Lower Upper

146 100

111 40.3 18.7 56.1

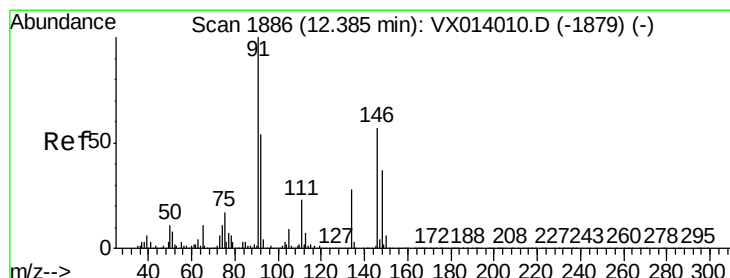
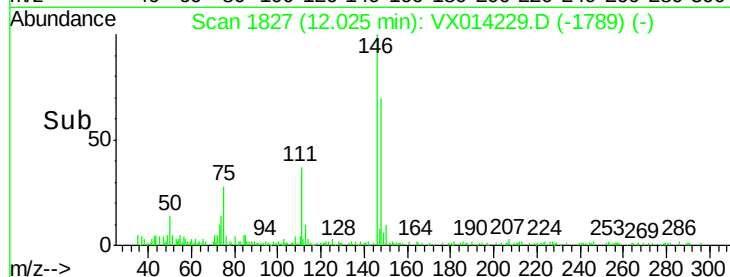
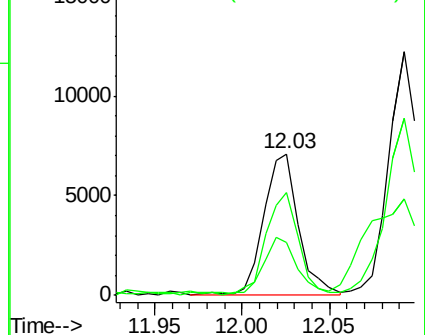
148 62.7 31.9 95.9



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



#91

1,2-Dichlorobenzene

Concen: 2.400 ug/l

RT: 12.39 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VX014229.D

Acq: 24 Dec 2019 02:51

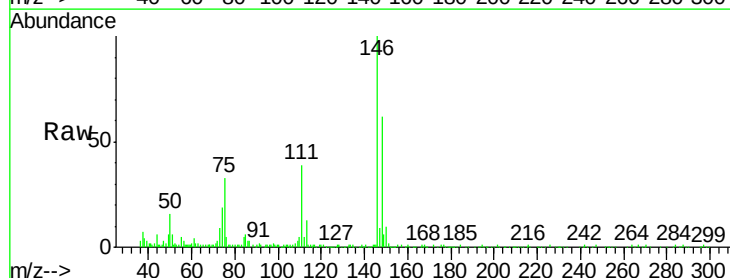
Tgt Ion:146 Resp: 28843

Ion Ratio Lower Upper

146 100

111 40.4 19.7 59.1

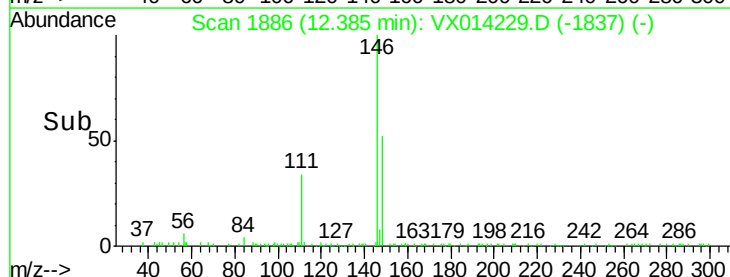
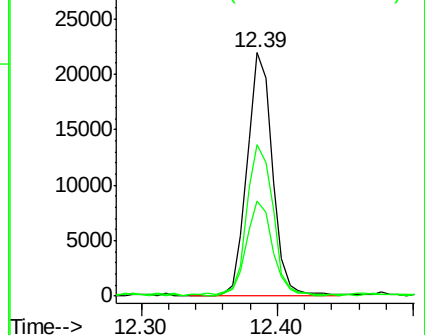
148 64.7 32.1 96.5

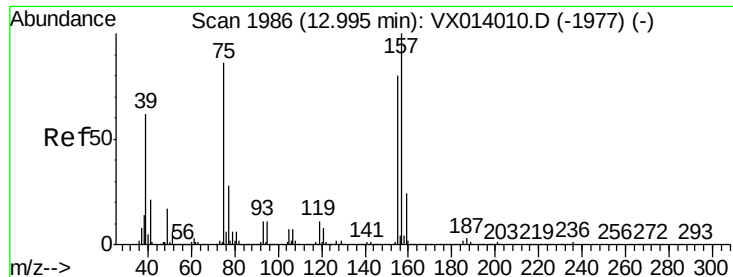


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.227 ug/l

RT: 12.98 min Scan# 1983

Delta R.T. -0.02 min

Lab File: VX014229.D

Acq: 24 Dec 2019 02:51

Instrument :

MSVOA_X

ClientSampleId :

C0B40

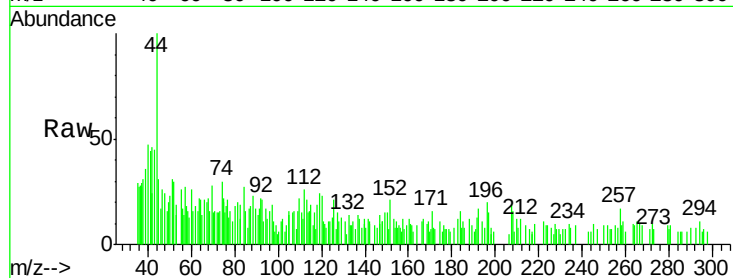
Tgt Ion: 75 Resp: 431

Ion Ratio Lower Upper

75 100

155 68.4 46.9 140.6

157 63.1 60.8 182.4



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

