

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX122619\
 Data File : VX014296.D
 Acq On : 27 Dec 2019 02:49
 Operator : JC/SP
 Sample : K6414-09
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 K183-WC-01

Quant Time: Dec 27 06:10:59 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	535437	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	829610	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	759052	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	340865	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	299209	49.31	ug/l	0.00
Spiked Amount			Recovery	=	98.62%	
35) Dibromofluoromethane	5.49	113	246253	48.83	ug/l	0.00
Spiked Amount			Recovery	=	97.66%	
50) Toluene-d8	8.71	98	998221	50.84	ug/l	0.00
Spiked Amount			Recovery	=	101.68%	
62) 4-Bromofluorobenzene	11.13	95	342075	47.66	ug/l	0.00
Spiked Amount			Recovery	=	95.32%	

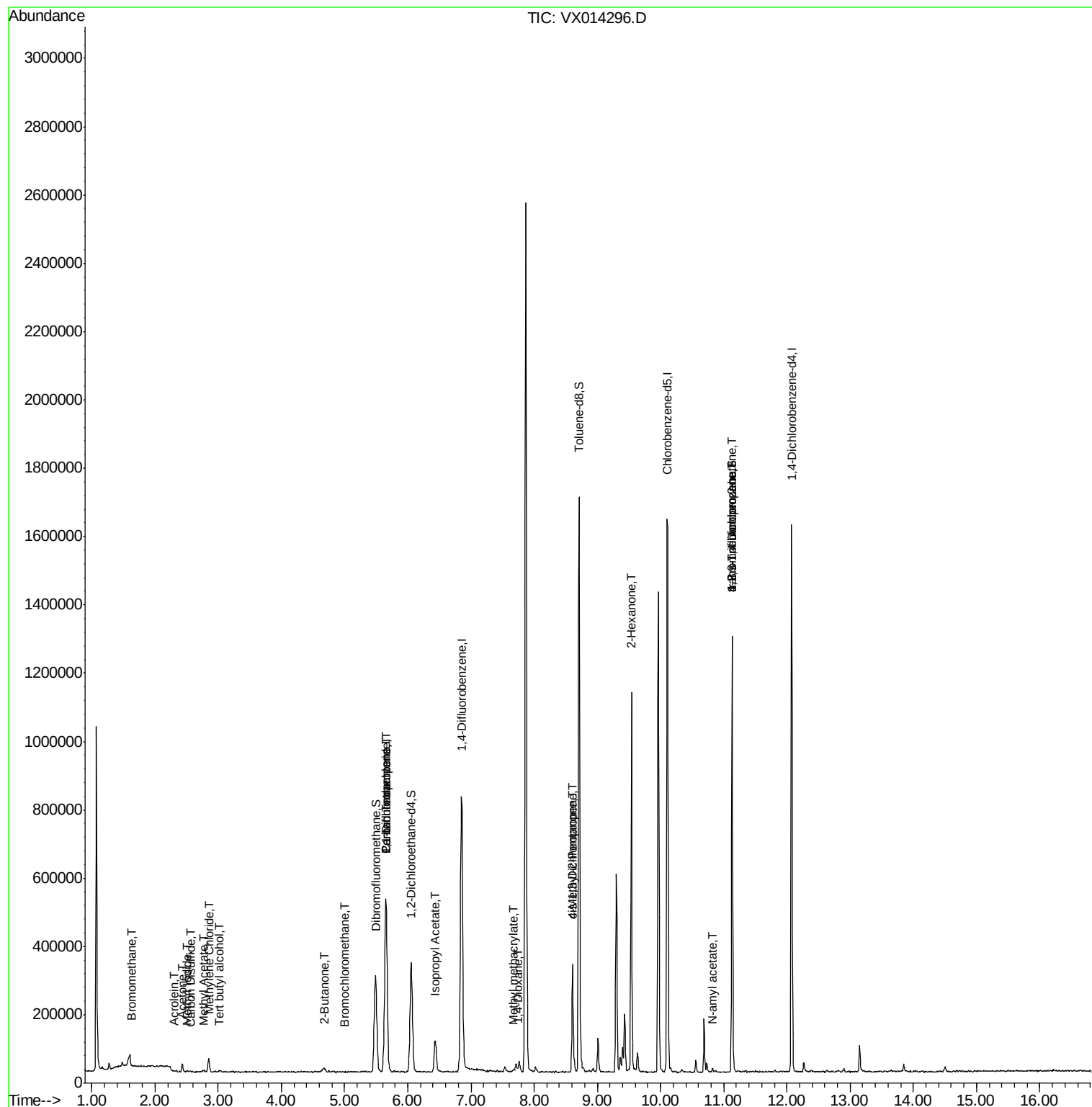
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	1160	0.241	ug/l	84
10) Methyl Iodide	2.52	142	841	2.740	ug/l #	48
11) Tert butyl alcohol	3.02	59	5015	3.825	ug/l #	90
13) Acrolein	2.30	56	770	1.026	ug/l	99
16) Acetone	2.43	43	25104	6.372	ug/l	98
17) Carbon Disulfide	2.56	76	1741	0.870	ug/l #	68
18) Methyl Acetate	2.77	43	6582	0.843	ug/l	100
20) Methylene Chloride	2.86	84	19703	3.176	ug/l	97
25) 2-Butanone	4.67	43	15537	3.199	ug/l	95
28) Bromochloromethane	5.00	49	488	0.577	ug/l #	42
36) 1,1-Dichloropropene	5.65	75	37657	4.947	ug/l #	50
38) Carbon Tetrachloride	5.65	117	46375	6.687	ug/l #	16
43) Isopropyl Acetate	6.44	43	129111	9.281	ug/l	98
48) Methyl methacrylate	7.67	41	6943	1.019	ug/l #	18
49) 1,4-Dioxane	7.74	88	465	3.354	ug/l #	23
51) 4-Methyl-2-Pentanone	8.61	43	115648	13.237	ug/l #	51
54) cis-1,3-Dichloropropene	8.61	75	54024	5.916	ug/l #	61
59) 2-Hexanone	9.54	43	125087	17.786	ug/l #	50
74) N-amyl acetate	10.82	43	6364	0.566	ug/l #	59
76) 1,2,3-Trichloropropane	11.13	75	168779	22.808	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	168779	64.375	ug/l #	11

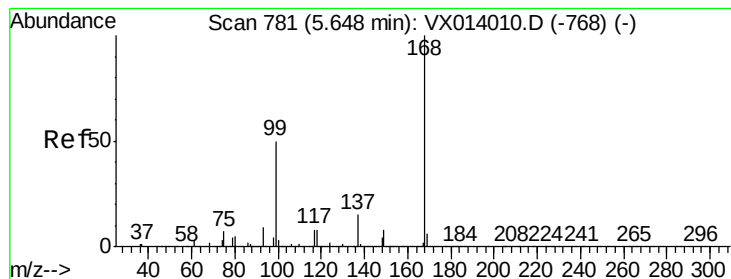
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX014296.D

Acq: 27 Dec 2019 02:49

Instrument :

MSVOA_X

ClientSampleId :

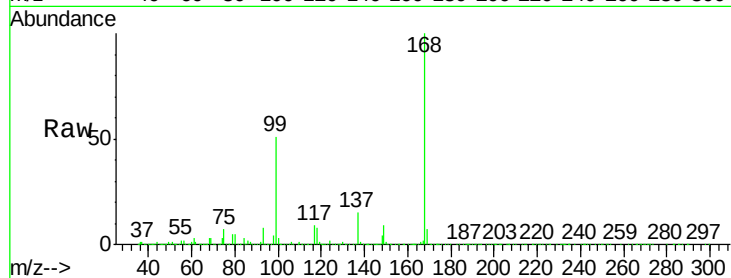
K183-WC-01

Tgt Ion: 168 Resp: 535437

Ion Ratio Lower Upper

168 100

99 51.2 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

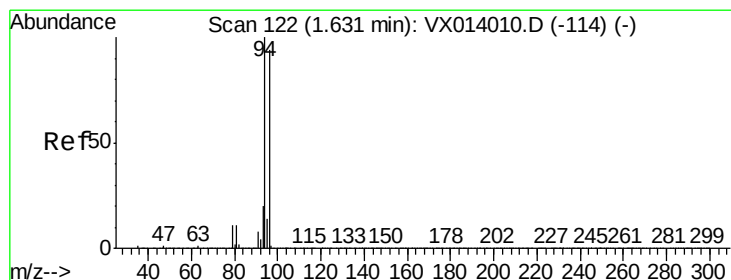
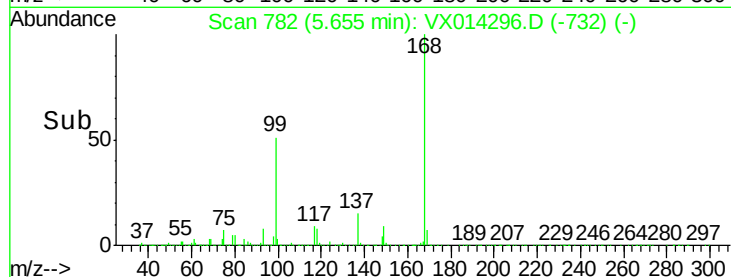
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.241 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.01 min

Lab File: VX014296.D

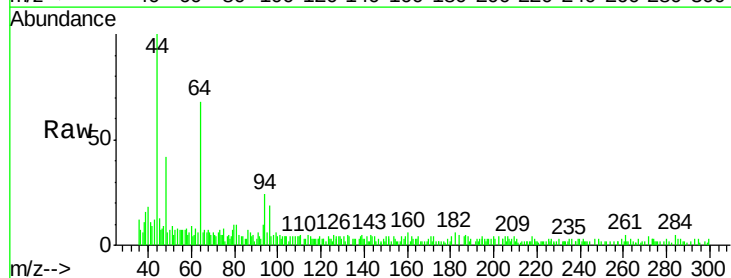
Acq: 27 Dec 2019 02:49

Tgt Ion: 94 Resp: 1160

Ion Ratio Lower Upper

94 100

96 78.2 75.2 112.8



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

1000

800

600

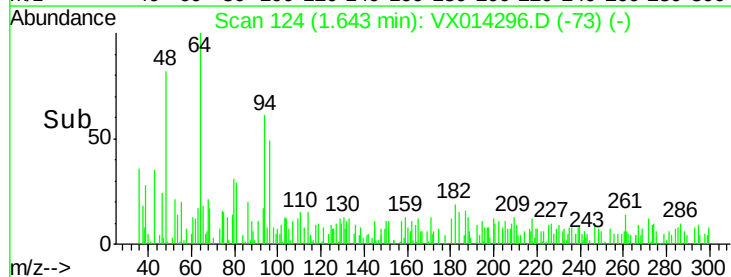
400

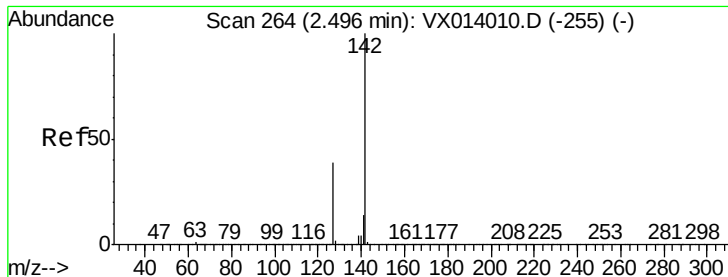
200

0

Time-->

1.60 1.65 1.70





#10

Methyl Iodide

Concen: 2.740 ug/l

RT: 2.52 min Scan# 267

Delta R.T. 0.02 min

Lab File: VX014296.D

Acq: 27 Dec 2019 02:49

Instrument :

MSVOA_X

ClientSampleId :

K183-WC-01

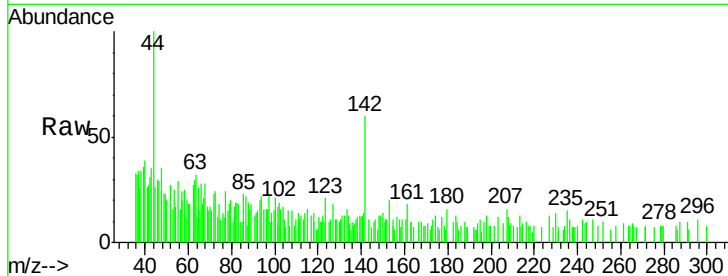
Tgt Ion:142 Resp: 841

Ion Ratio Lower Upper

142 100

127 0.0 31.6 47.4#

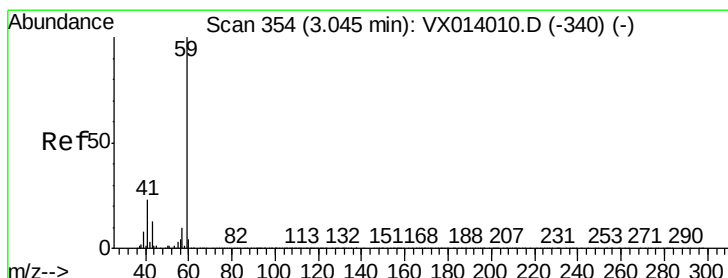
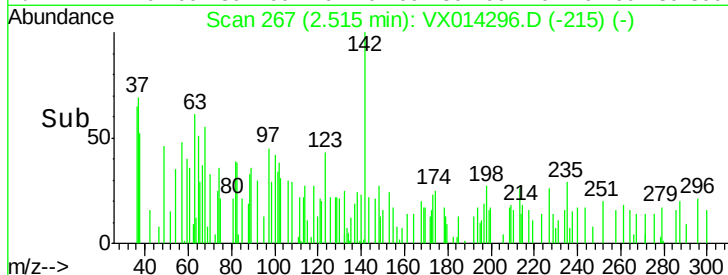
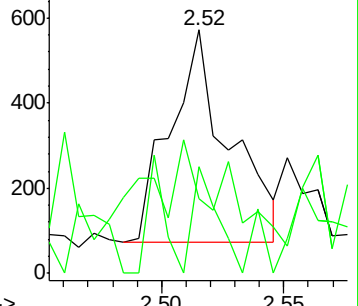
141 21.4 11.6 17.4#



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: 3.825 ug/l

RT: 3.02 min Scan# 350

Delta R.T. -0.02 min

Lab File: VX014296.D

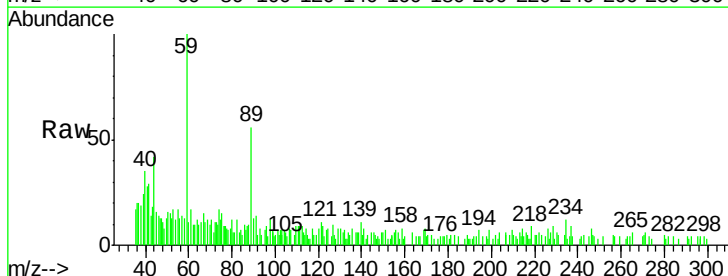
Acq: 27 Dec 2019 02:49

Tgt Ion: 59 Resp: 5015

Ion Ratio Lower Upper

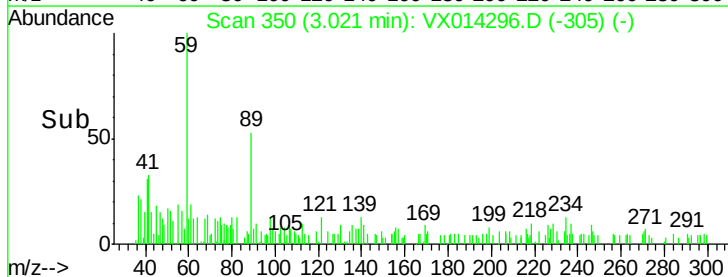
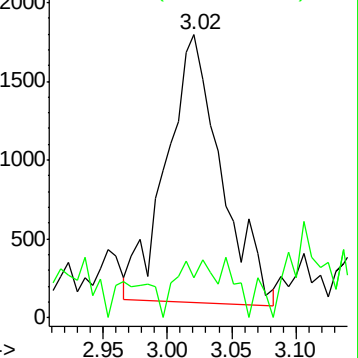
59 100

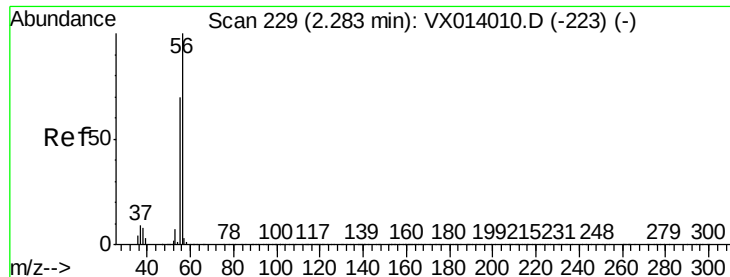
57 14.3 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 1.026 ug/l

RT: 2.30 min Scan# 232

Delta R.T. 0.02 min

Lab File: VX014296.D

Acq: 27 Dec 2019 02:49

Instrument :

MSVOA_X

ClientSampleId :

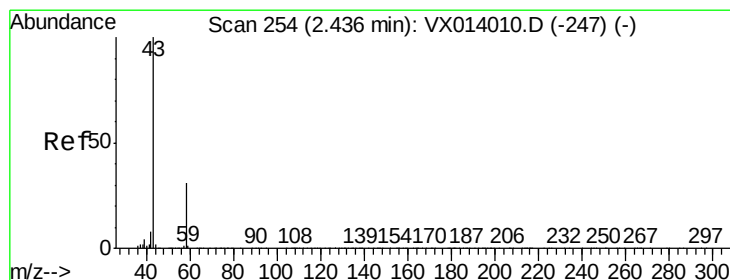
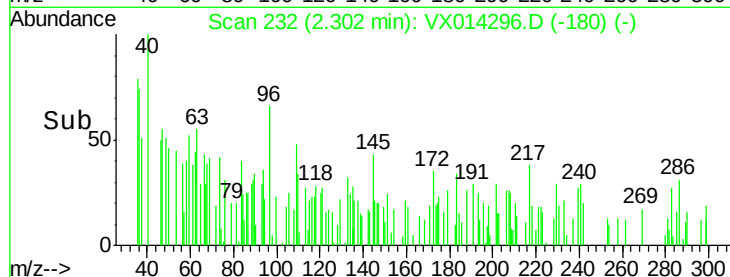
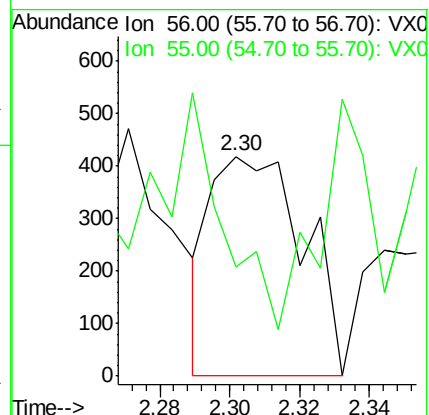
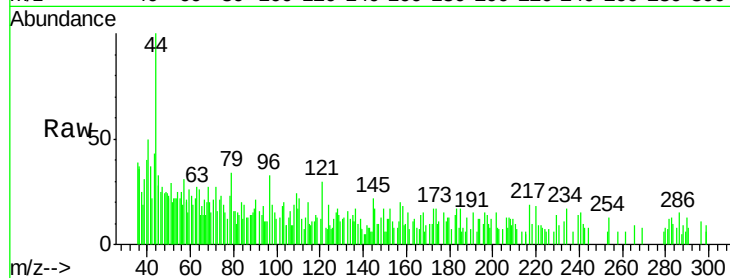
K183-WC-01

Tgt Ion: 56 Resp: 770

Ion Ratio Lower Upper

56 100

55 69.9 56.9 85.3



#16

Acetone

Concen: 6.372 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX014296.D

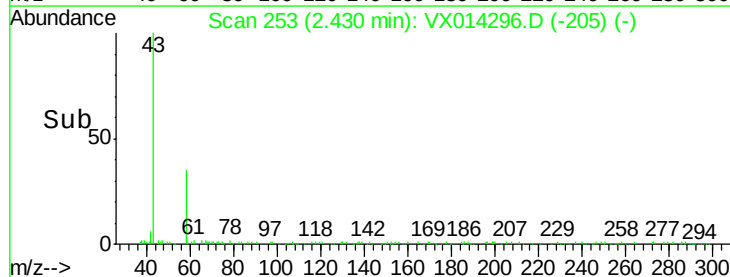
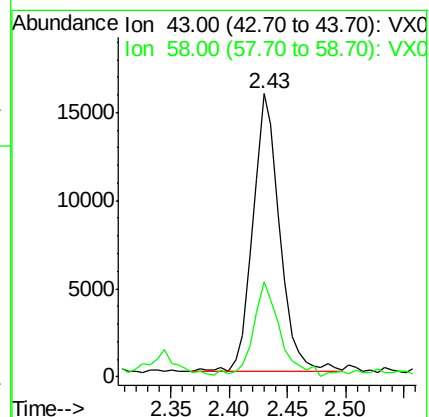
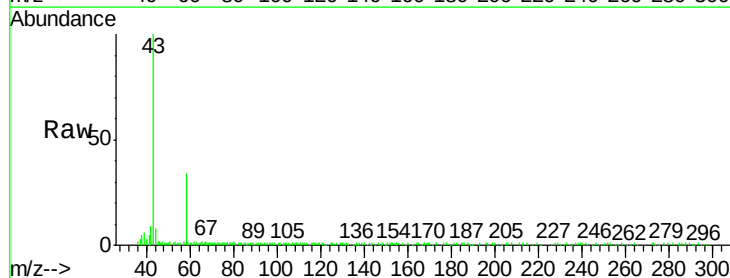
Acq: 27 Dec 2019 02:49

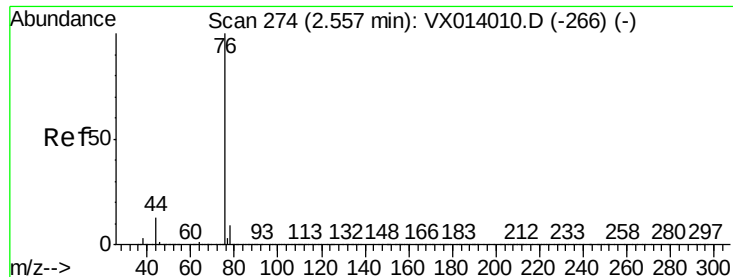
Tgt Ion: 43 Resp: 25104

Ion Ratio Lower Upper

43 100

58 32.1 24.9 37.3





#17

Carbon Disulfide

Concen: 0.870 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX014296.D

Acq: 27 Dec 2019 02:49

Instrument :

MSVOA_X

ClientSampled :

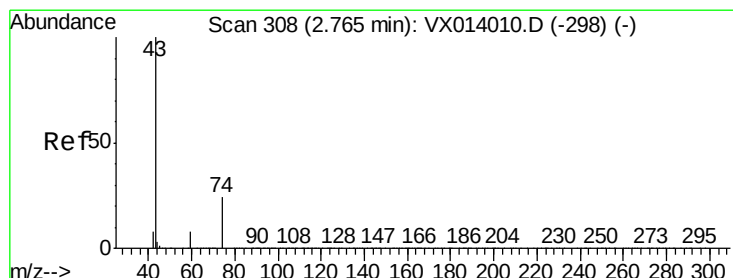
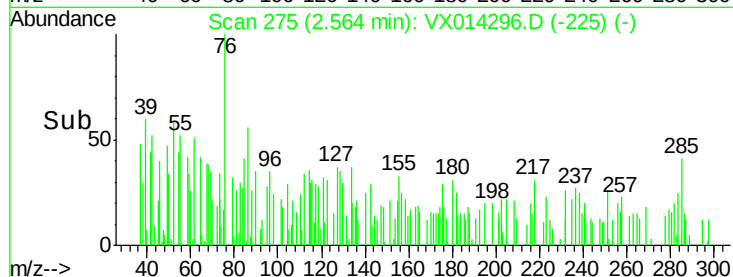
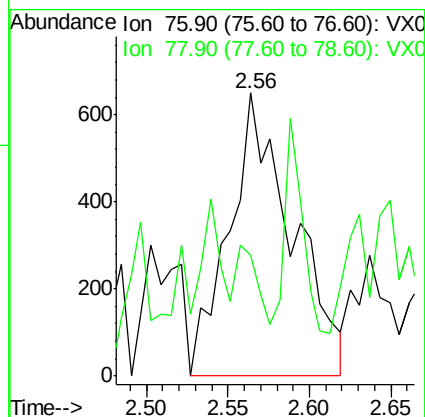
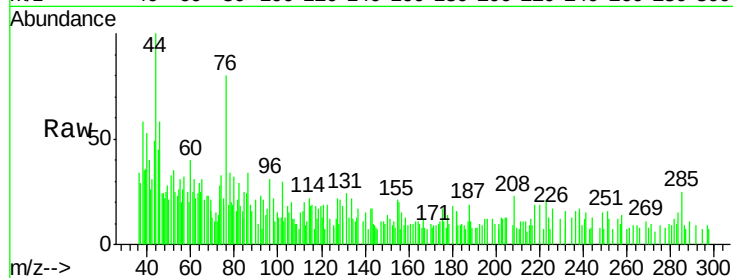
K183-WC-01

Tgt Ion: 76 Resp: 1741

Ion Ratio Lower Upper

76 100

78 20.6 7.2 10.8#



#18

Methyl Acetate

Concen: 0.843 ug/l

RT: 2.77 min Scan# 309

Delta R.T. 0.01 min

Lab File: VX014296.D

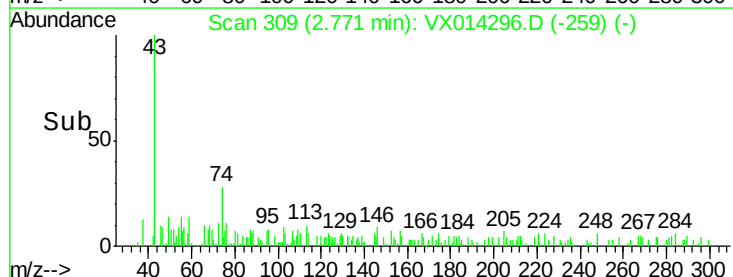
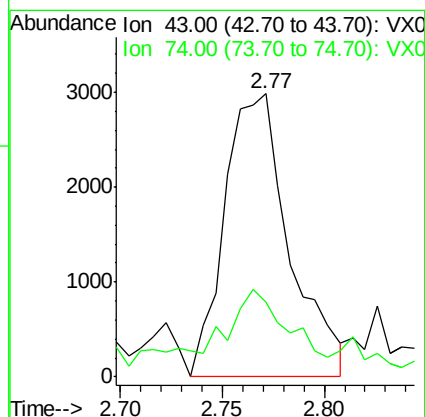
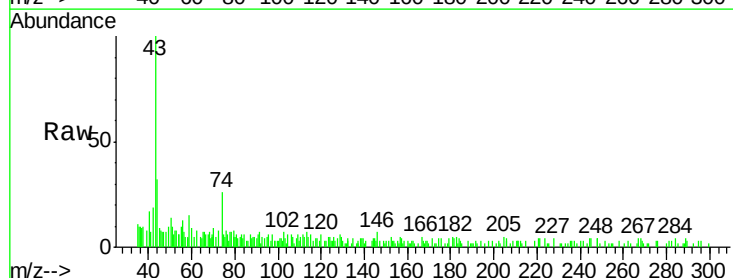
Acq: 27 Dec 2019 02:49

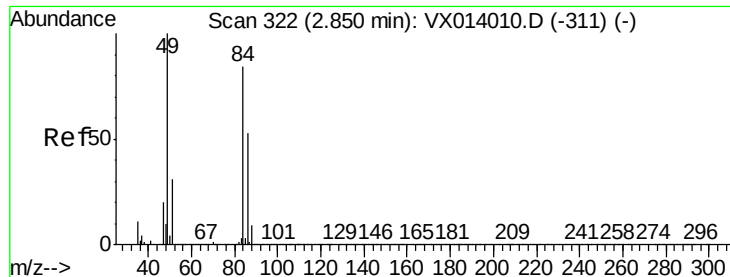
Tgt Ion: 43 Resp: 6582

Ion Ratio Lower Upper

43 100

74 24.5 19.5 29.3

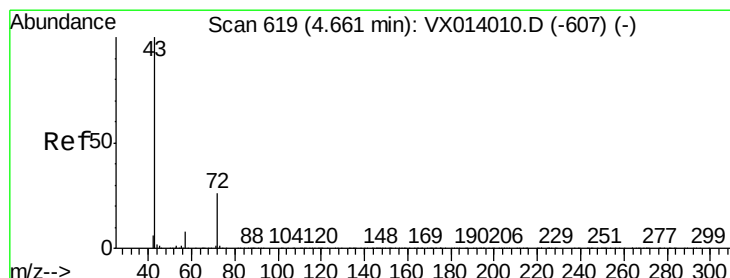
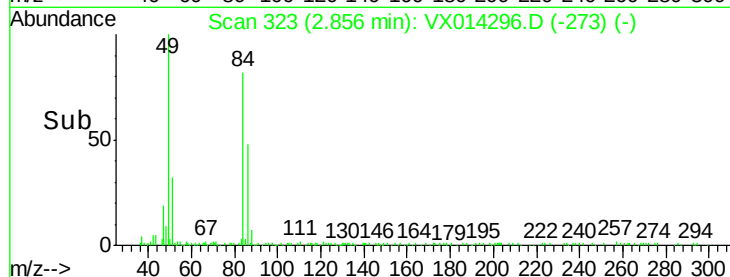
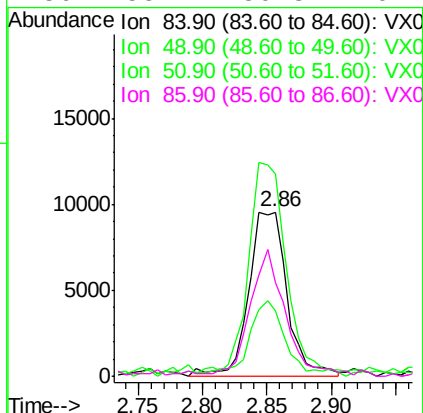
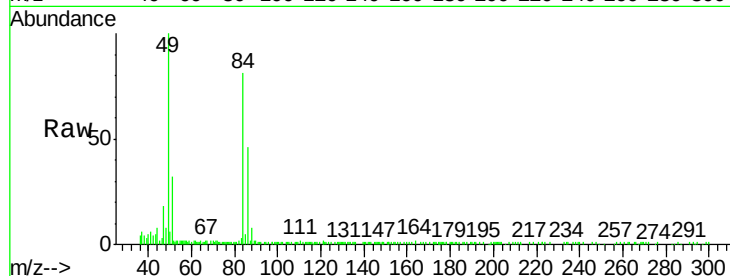




#20
Methylene Chloride
Concen: 3.176 ug/l
RT: 2.86 min Scan# 323
Delta R.T. 0.01 min
Lab File: VX014296.D
Acq: 27 Dec 2019 02:49

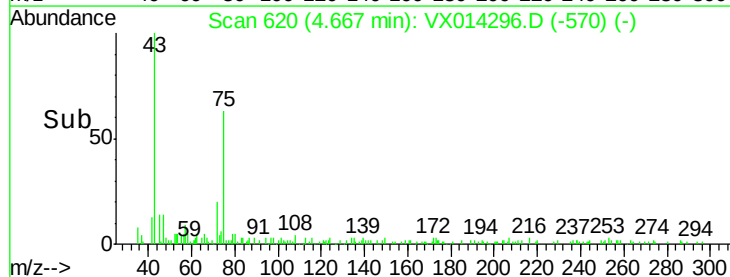
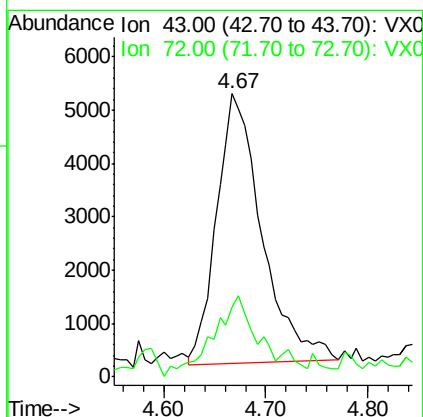
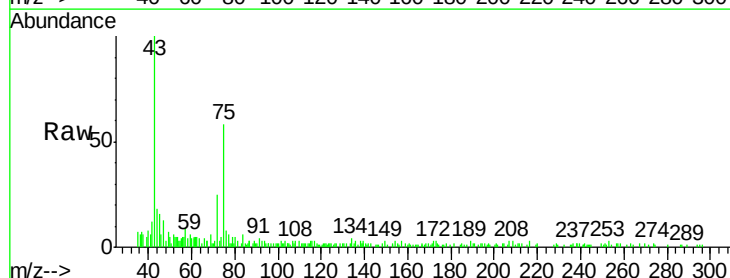
Instrument :
MSVOA_X
ClientSampleId :
K183-WC-01

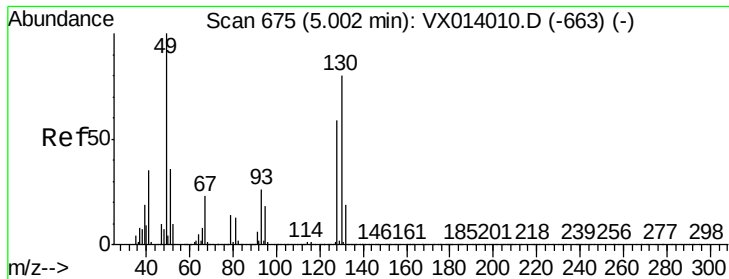
Tgt Ion:	84	Resp:	19703
Ion	Ratio	Lower	Upper
84	100		
49	119.5	95.8	143.6
51	37.3	29.8	44.8
86	55.1	50.8	76.2



#25
2-Butanone
Concen: 3.199 ug/l
RT: 4.67 min Scan# 620
Delta R.T. 0.01 min
Lab File: VX014296.D
Acq: 27 Dec 2019 02:49

Tgt Ion:	43	Resp:	15537
Ion	Ratio	Lower	Upper
43	100		
72	23.5	21.0	31.4





#28

Bromochloromethane

Concen: 0.577 ug/l

RT: 5.00 min Scan# 675

Delta R.T. 0.00 min

Lab File: VX014296.D

Acq: 27 Dec 2019 02:49

Instrument :

MSVOA_X

ClientSampleId :

K183-WC-01

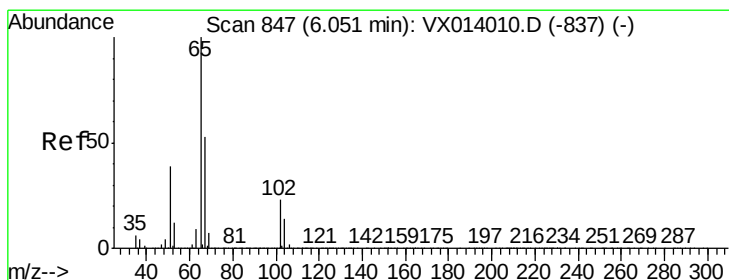
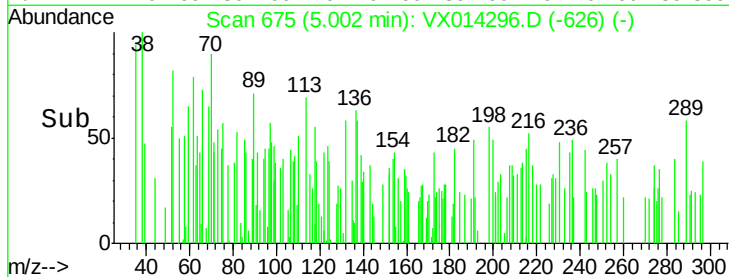
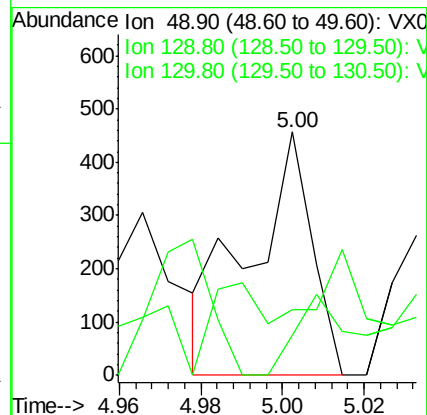
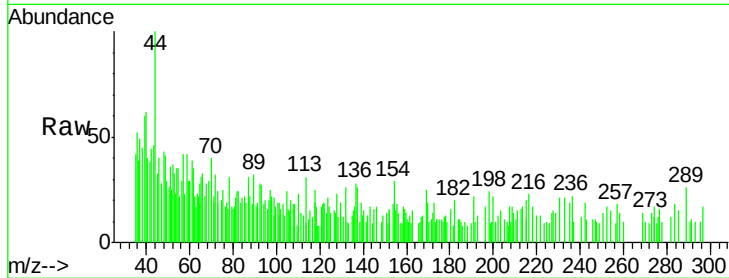
Tgt Ion: 49 Resp: 488

Ion Ratio Lower Upper

49 100

129 16.6 0.0 5.0#

130 28.9 64.6 97.0#



#33

1,2-Dichloroethane-d4

Concen: 49.306 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX014296.D

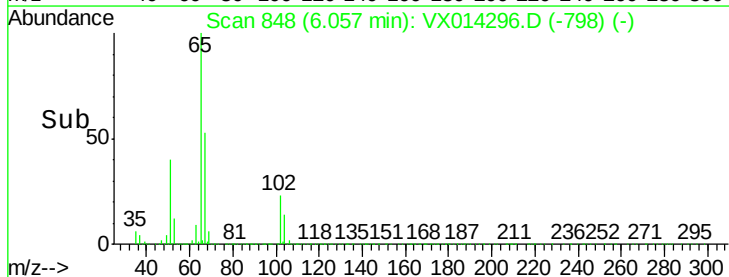
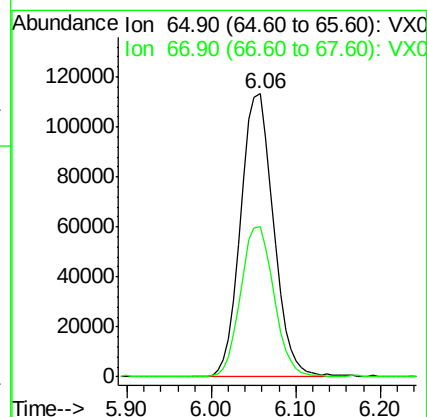
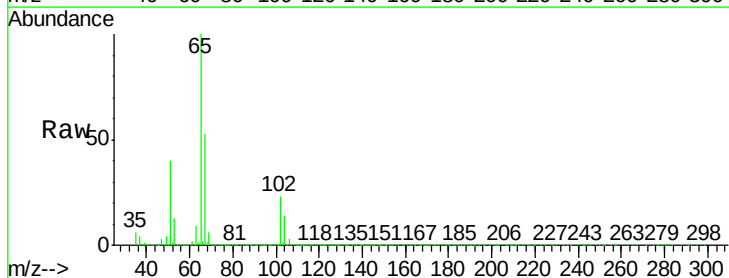
Acq: 27 Dec 2019 02:49

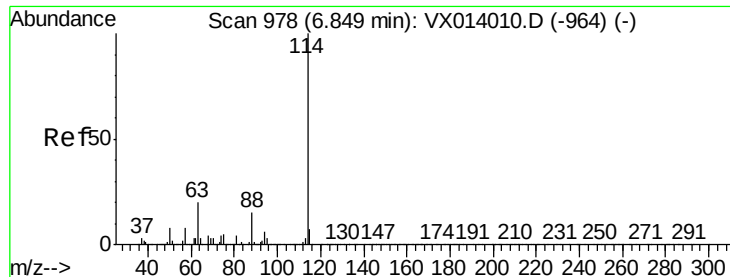
Tgt Ion: 65 Resp: 299209

Ion Ratio Lower Upper

65 100

67 54.0 0.0 106.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX014296.D

Acq: 27 Dec 2019 02:49

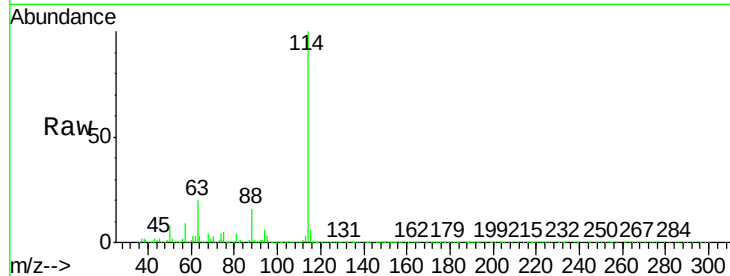
Instrument :

MSVOA_X

ClientSampleId :

K183-WC-01

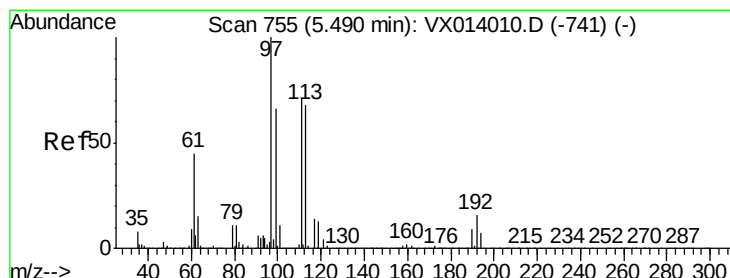
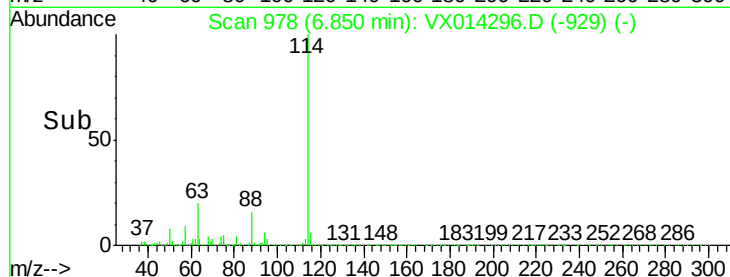
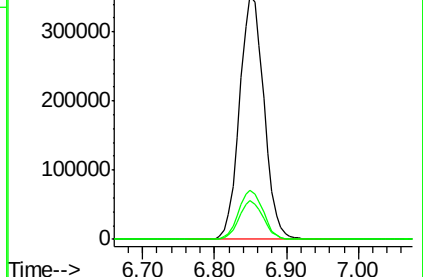
Tgt Ion:	114	Resp:	829610
Ion	Ratio	Lower	Upper
114	100		
63	20.3	0.0	40.8
88	15.7	0.0	30.4



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: 48.830 ug/l

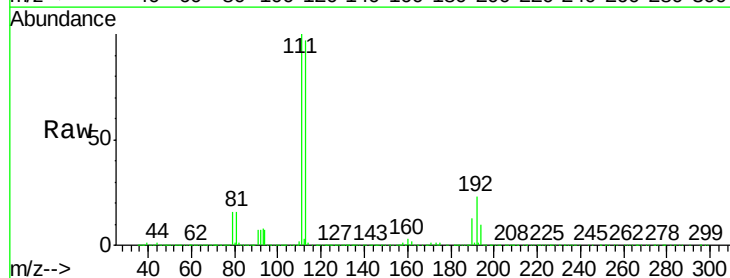
RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014296.D

Acq: 27 Dec 2019 02:49

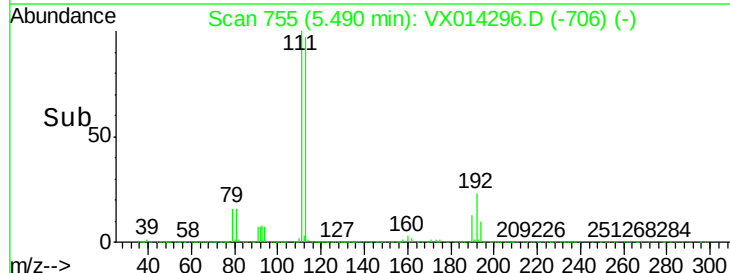
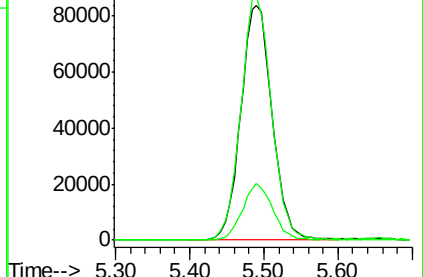
Tgt Ion:	113	Resp:	246253
Ion	Ratio	Lower	Upper
113	100		
111	102.2	82.0	123.0
192	23.4	19.3	28.9

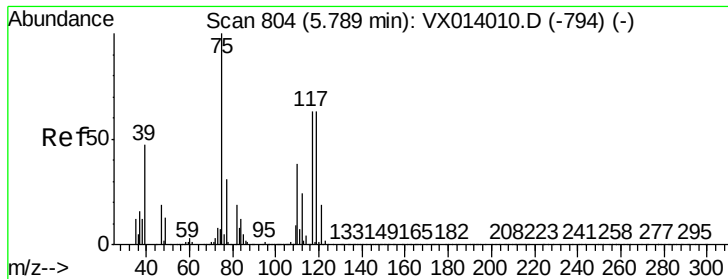


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

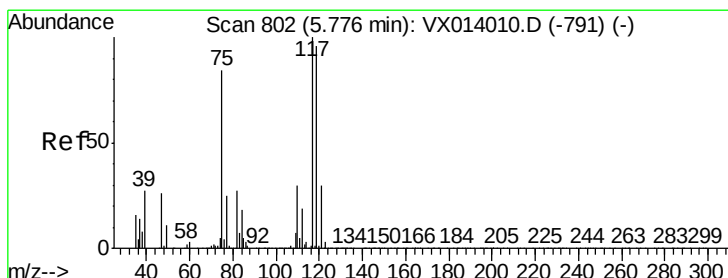
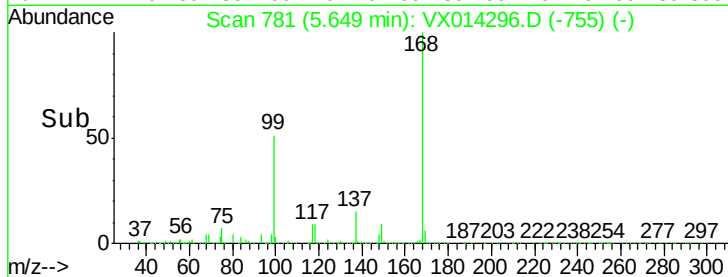
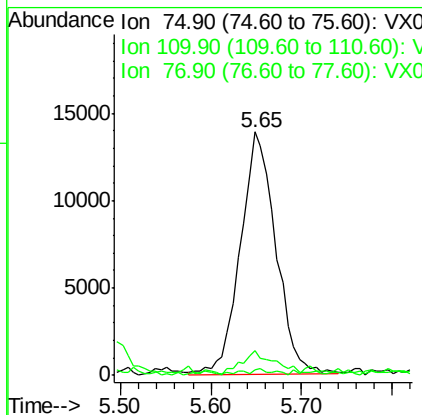
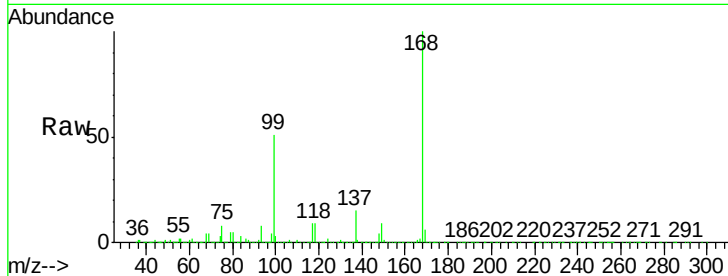




#36
 1,1-Dichloropropene
 Concen: 4.947 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.14 min
 Lab File: VX014296.D
 Acq: 27 Dec 2019 02:49

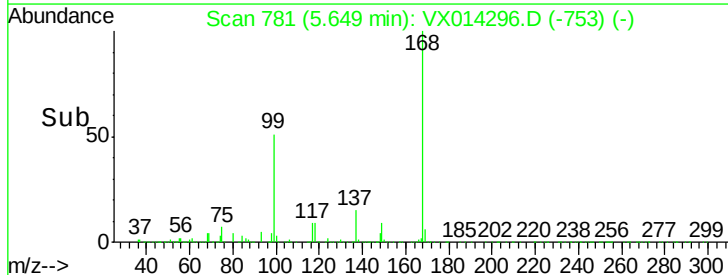
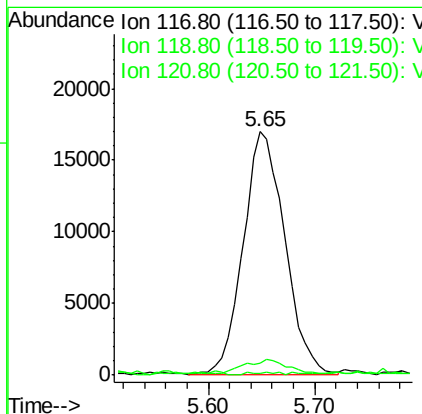
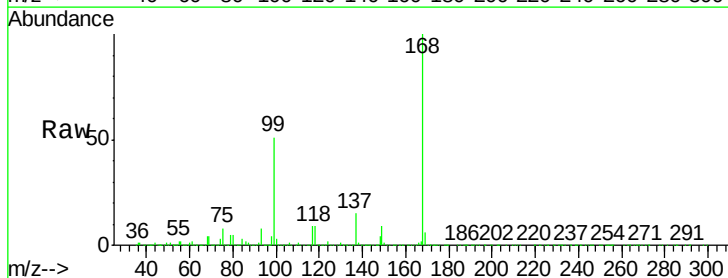
Instrument :
 MSVOA_X
 ClientSampleId :
 K183-WC-01

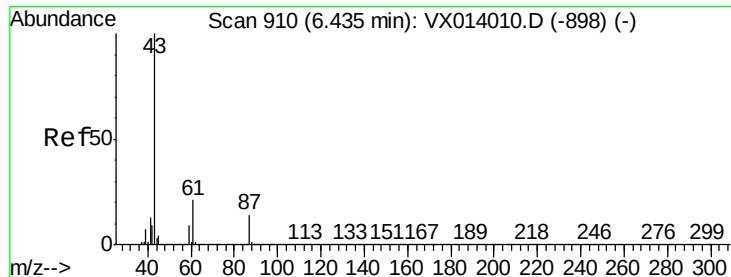
Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.7	18.3	54.9#
77	0.8	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 6.687 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.13 min
 Lab File: VX014296.D
 Acq: 27 Dec 2019 02:49

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.4	76.2	114.4#
121	0.3	23.6	35.4#





#43

Isopropyl Acetate

Concen: 9.281 ug/l

RT: 6.44 min Scan# 910

Delta R.T. 0.00 min

Lab File: VX014296.D

Acq: 27 Dec 2019 02:49

Instrument :

MSVOA_X

ClientSampleId :

K183-WC-01

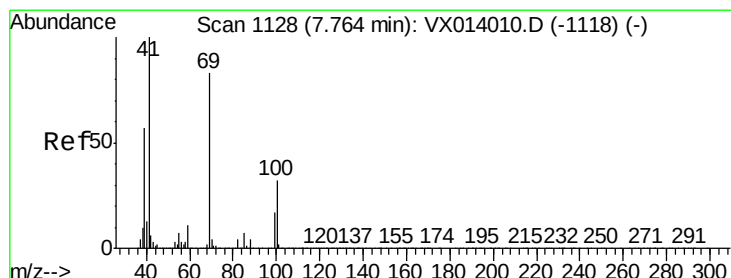
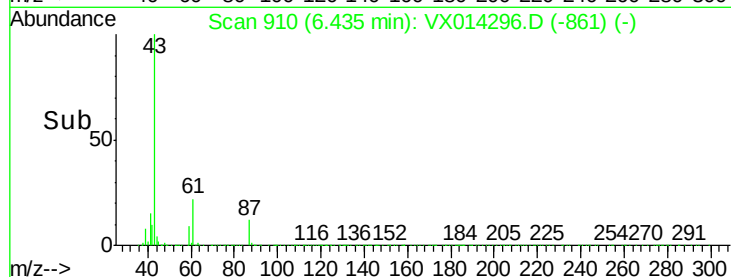
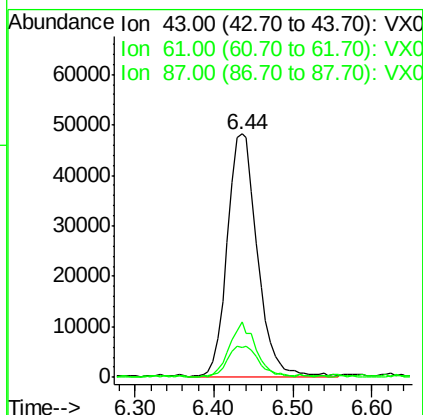
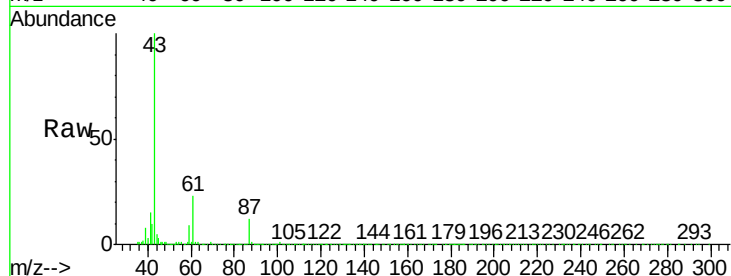
Tgt Ion: 43 Resp: 129111

Ion Ratio Lower Upper

43 100

61 19.3 16.4 24.6

87 12.6 10.7 16.1



#48

Methyl methacrylate

Concen: 1.019 ug/l

RT: 7.67 min Scan# 1113

Delta R.T. -0.09 min

Lab File: VX014296.D

Acq: 27 Dec 2019 02:49

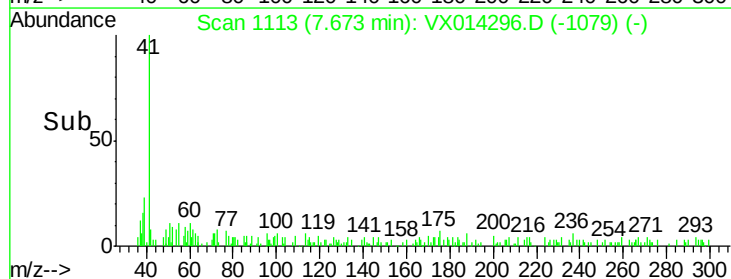
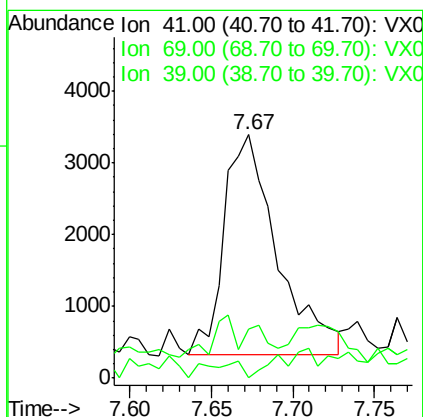
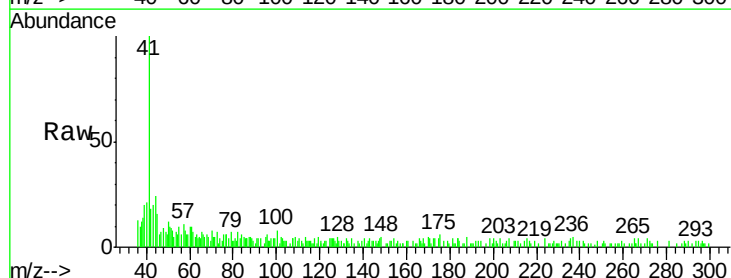
Tgt Ion: 41 Resp: 6943

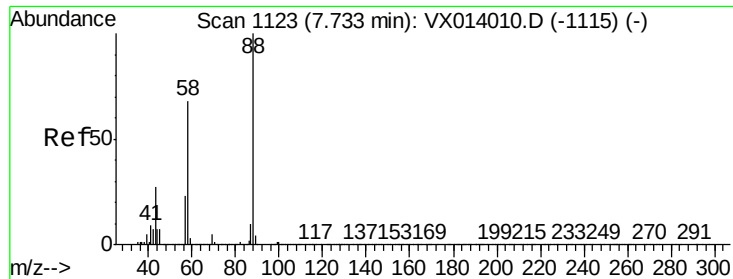
Ion Ratio Lower Upper

41 100

69 5.0 65.8 98.6#

39 0.0 44.6 67.0#





#49

1,4-Dioxane

Concen: 3.354 ug/l

RT: 7.74 min Scan# 1124

Delta R.T. 0.01 min

Lab File: VX014296.D

Acq: 27 Dec 2019 02:49

Instrument :

MSVOA_X

ClientSampleId :

K183-WC-01

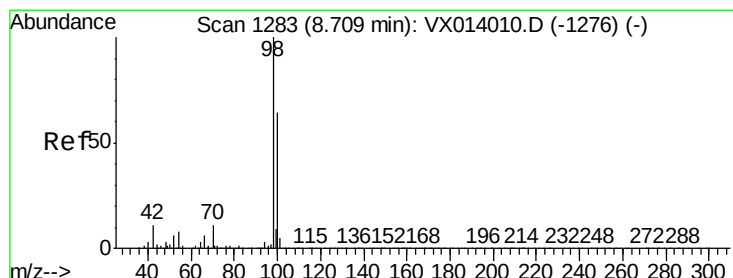
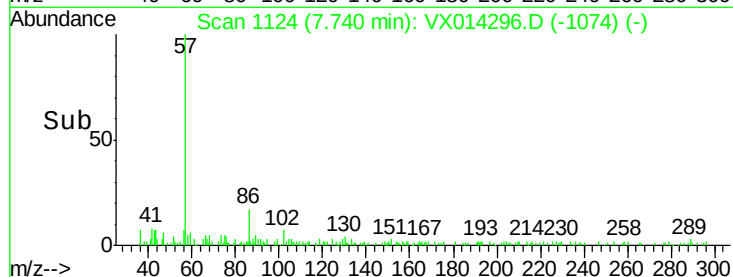
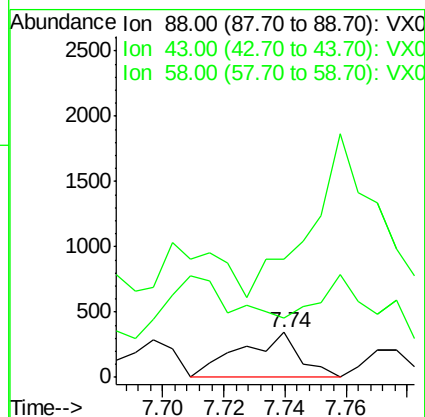
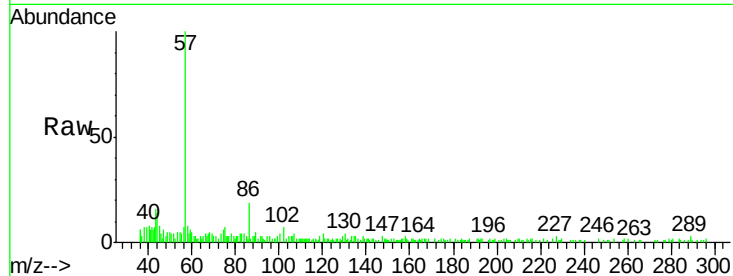
Tgt Ion: 88 Resp: 465

Ion Ratio Lower Upper

88 100

43 0.0 26.5 39.7#

58 0.0 56.8 85.2#



#50

Toluene-d8

Concen: 50.841 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014296.D

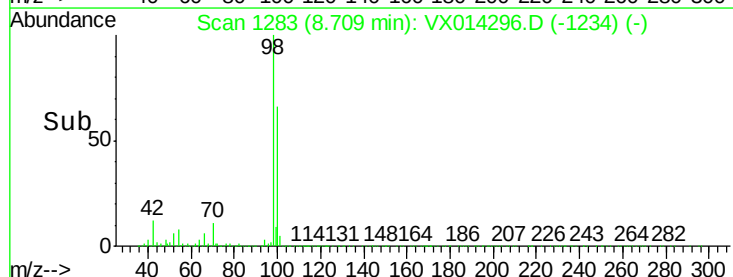
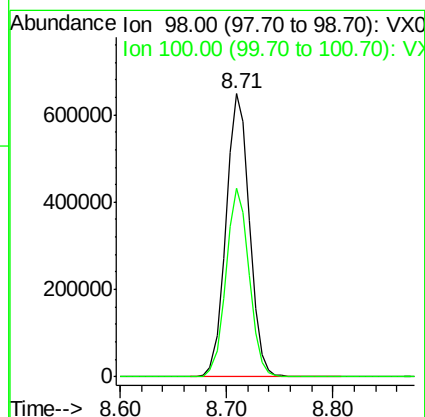
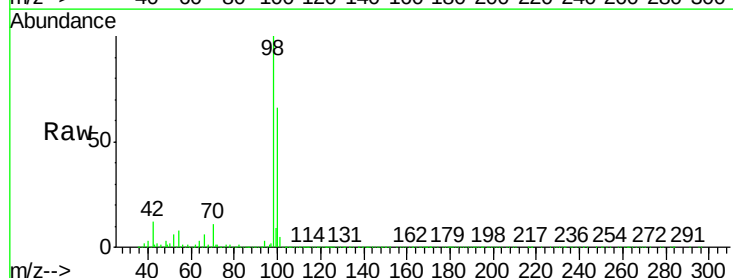
Acq: 27 Dec 2019 02:49

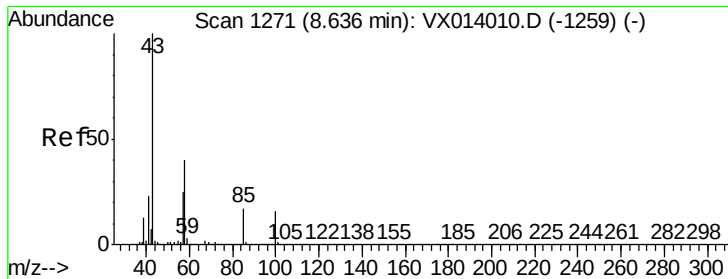
Tgt Ion: 98 Resp: 998221

Ion Ratio Lower Upper

98 100

100 65.7 52.9 79.3





#51

4-Methyl-2-Pentanone

Concen: 13.237 ug/l

RT: 8.61 min Scan# 1266

Delta R.T. -0.03 min

Lab File: VX014296.D

Acq: 27 Dec 2019 02:49

Instrument :

MSVOA_X

ClientSampleId :

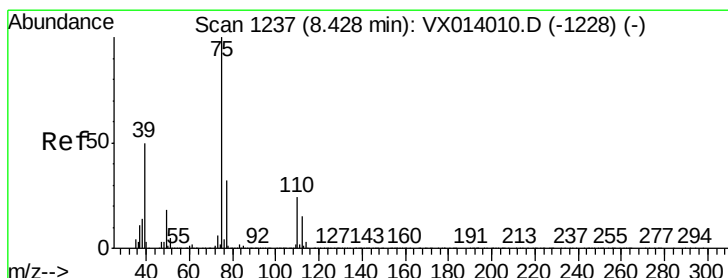
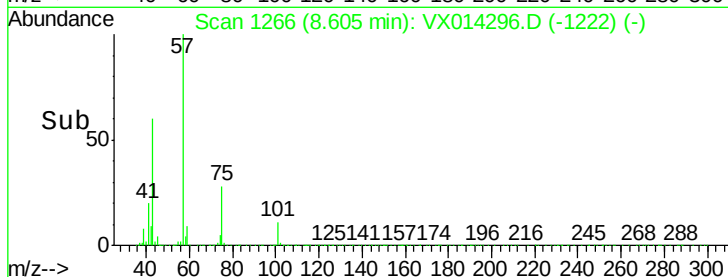
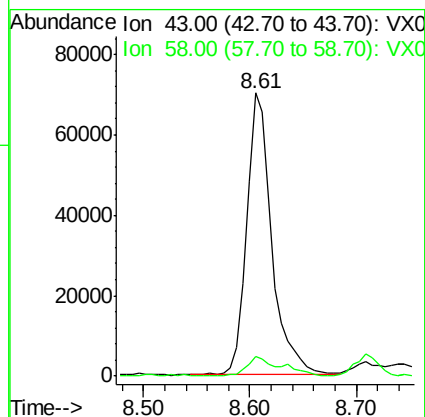
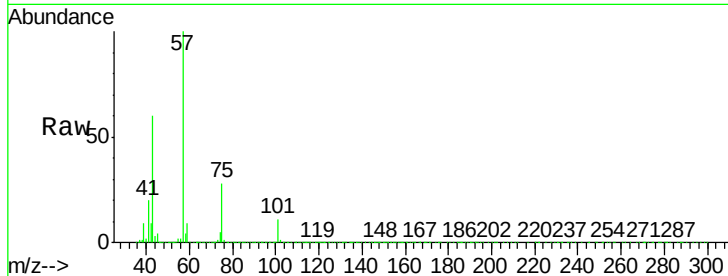
K183-WC-01

Tgt Ion: 43 Resp: 115648

Ion Ratio Lower Upper

43 100

58 9.9 32.2 48.2#



#54

cis-1,3-Dichloropropene

Concen: 5.916 ug/l

RT: 8.61 min Scan# 1266

Delta R.T. 0.18 min

Lab File: VX014296.D

Acq: 27 Dec 2019 02:49

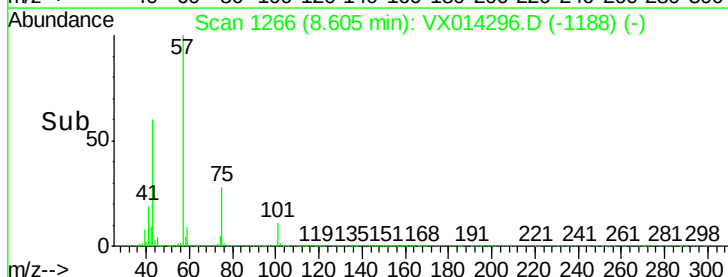
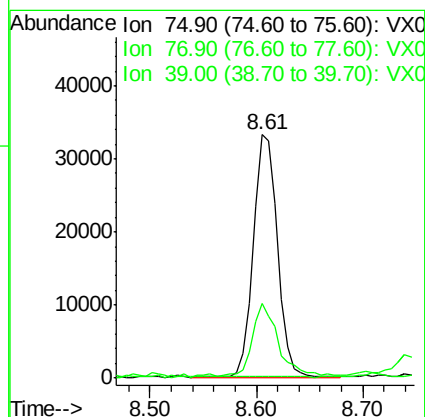
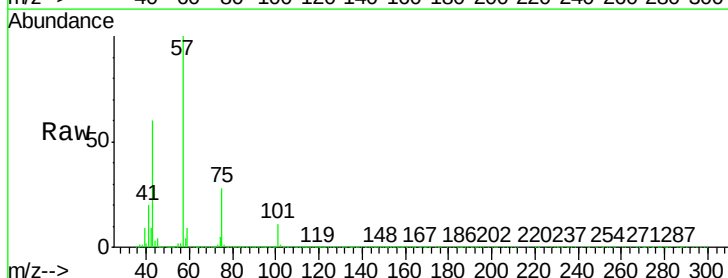
Tgt Ion: 75 Resp: 54024

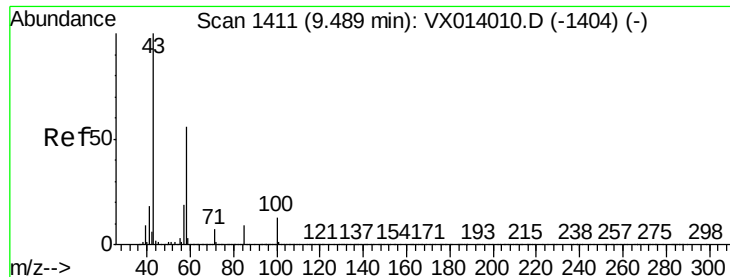
Ion Ratio Lower Upper

75 100

77 0.4 25.3 37.9#

39 30.7 39.9 59.9#





#59

2-Hexanone

Concen: 17.786 ug/l

RT: 9.54 min Scan# 1419

Delta R.T. 0.05 min

Lab File: VX014296.D

Acq: 27 Dec 2019 02:49

Instrument :

MSVOA_X

ClientSampled :

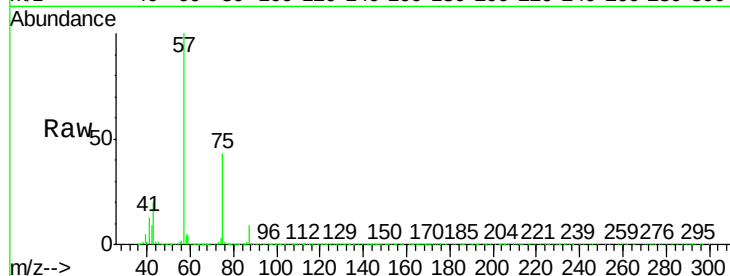
K183-WC-01

Tgt Ion: 43 Resp: 125087

Ion Ratio Lower Upper

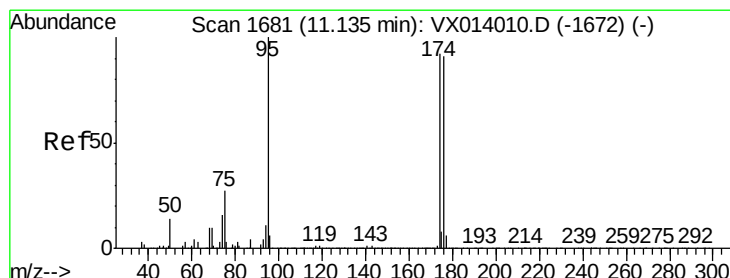
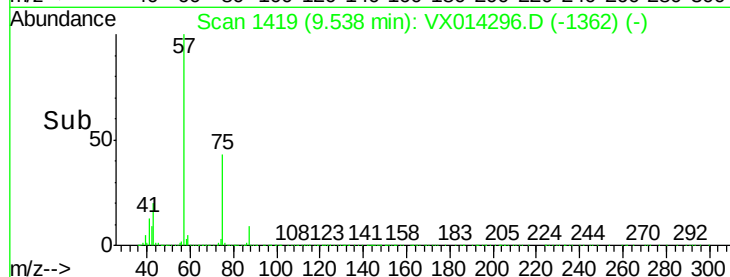
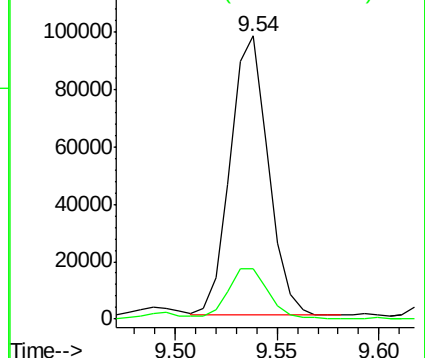
43 100

58 19.2 28.0 84.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#62

4-Bromofluorobenzene

Concen: 47.662 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.01 min

Lab File: VX014296.D

Acq: 27 Dec 2019 02:49

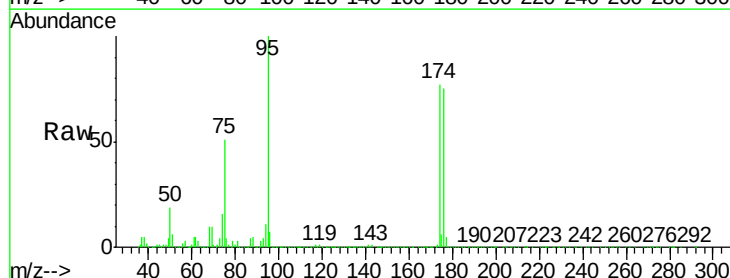
Tgt Ion: 95 Resp: 342075

Ion Ratio Lower Upper

95 100

174 87.6 0.0 175.8

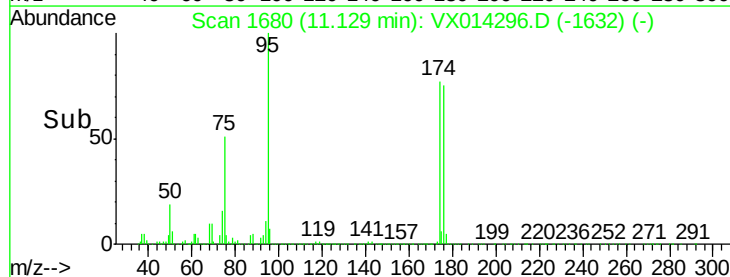
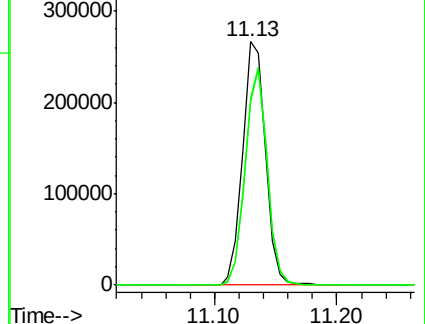
176 84.7 0.0 173.0

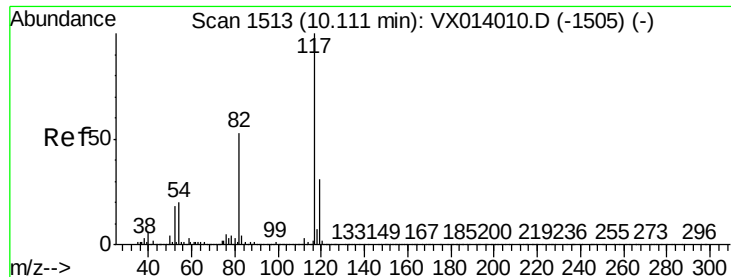


Abundance Ion 94.90 (94.60 to 95.60): VX0

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: VX014296.D

Acq: 27 Dec 2019 02:49

Instrument :

MSVOA_X

ClientSampleId :

K183-WC-01

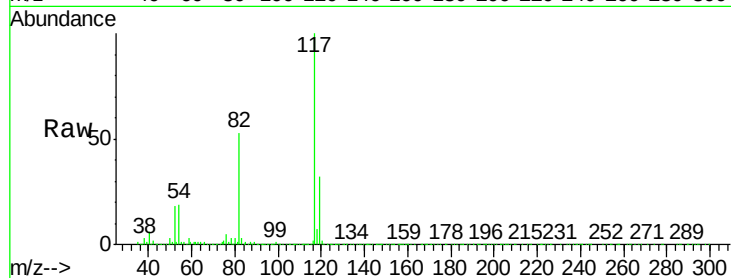
Tgt Ion:117 Resp: 759052

Ion Ratio Lower Upper

117 100

82 52.5 42.2 63.4

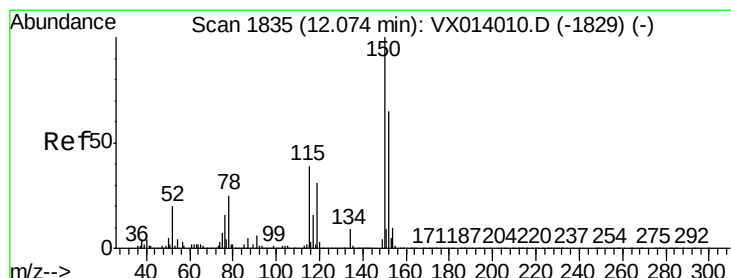
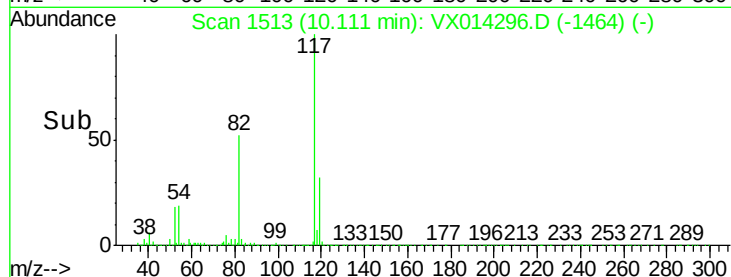
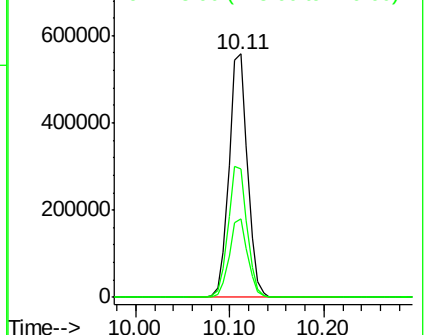
119 32.3 25.1 37.7



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

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: VX014296.D

Acq: 27 Dec 2019 02:49

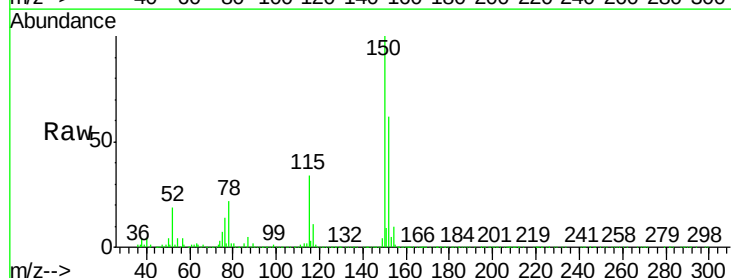
Tgt Ion:152 Resp: 340865

Ion Ratio Lower Upper

152 100

115 54.9 38.3 114.9

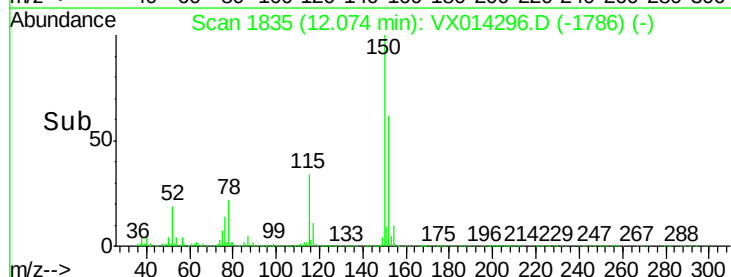
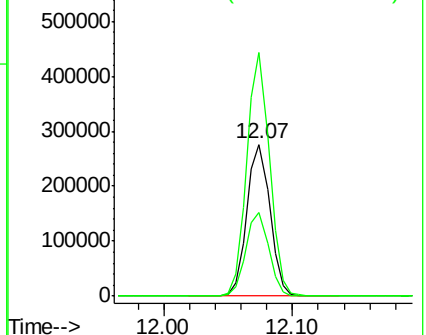
150 156.8 0.0 345.4

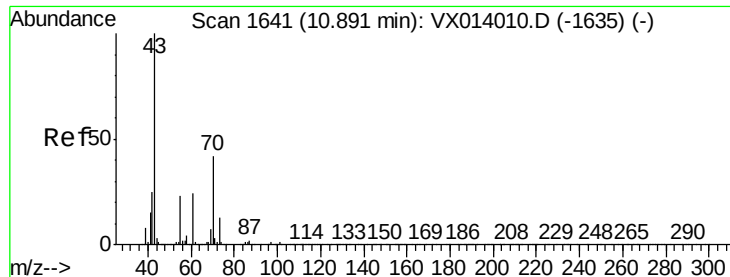


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amyI acetate

Concen: 0.566 ug/l

RT: 10.82 min Scan# 1629

Delta R.T. -0.07 min

Lab File: VX014296.D

Acq: 27 Dec 2019 02:49

Instrument :

MSVOA_X

ClientSampleId :

K183-WC-01

Tgt Ion: 43 Resp: 6364

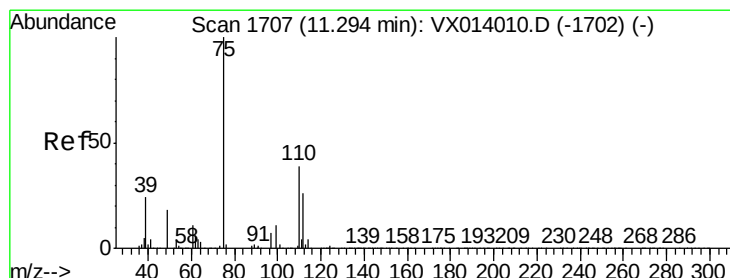
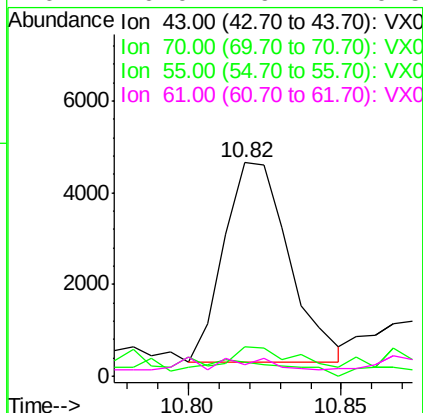
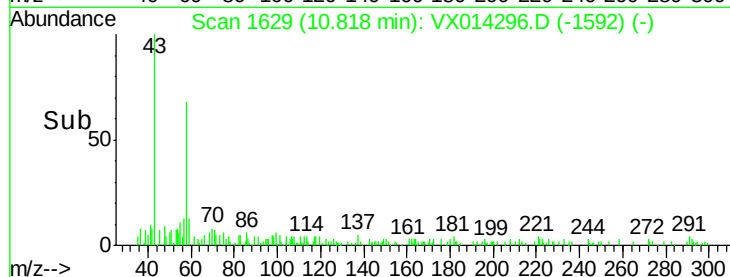
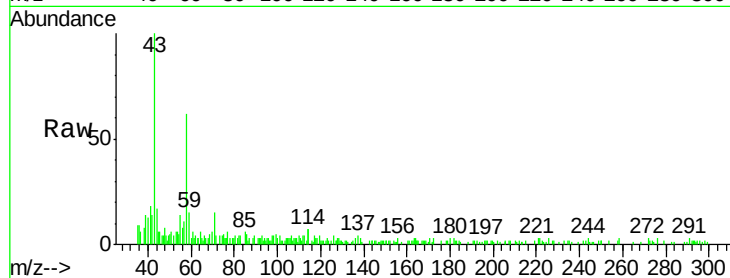
Ion Ratio Lower Upper

43 100

70 11.5 34.4 51.6#

55 14.6 19.1 28.7#

61 0.0 19.7 29.5#



#76

1,2,3-Trichloropropane

Concen: 22.808 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014296.D

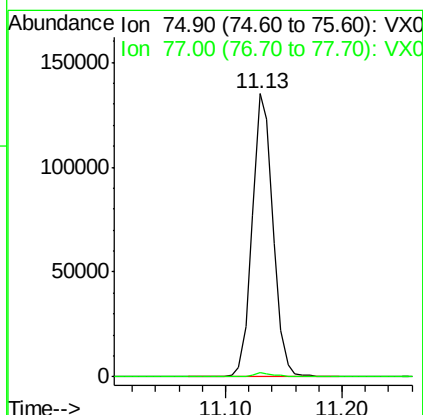
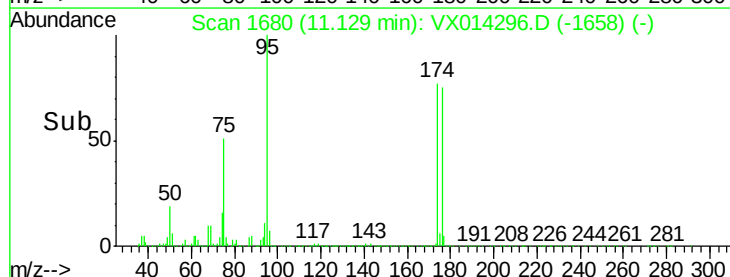
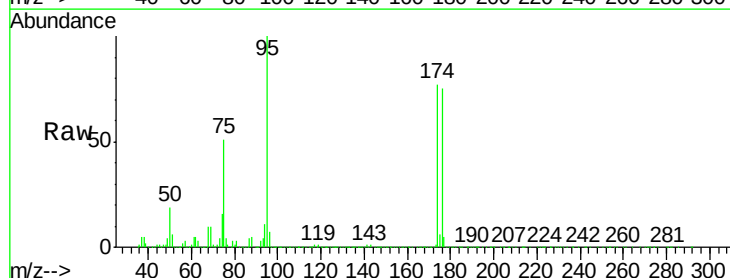
Acq: 27 Dec 2019 02:49

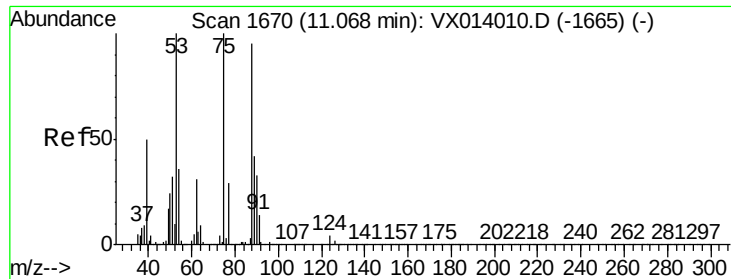
Tgt Ion: 75 Resp: 168779

Ion Ratio Lower Upper

75 100

77 1.7 19.3 57.8#





#81

trans-1,4-Dichloro-2-butene

Concen: 64.375 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014296.D

Acq: 27 Dec 2019 02:49

Instrument :

MSVOA_X

ClientSampleId :

K183-WC-01

Tgt Ion: 75 Resp: 168779

Ion Ratio Lower Upper

75 100

53 0.1 76.7 115.1#

89 0.1 34.6 51.8#

