

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100819\
 Data File : VX012916.D
 Acq On : 09 Oct 2019 02:45
 Operator : JC/SP
 Sample : K5232-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Oct 09 03:47:50 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	188031	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	318354	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	276797	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	111416	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	123513	52.56	ug/l	0.00
Spiked Amount			Recovery	=	105.12%	
35) Dibromofluoromethane	5.49	113	94184	51.55	ug/l	0.00
Spiked Amount			Recovery	=	103.10%	
50) Toluene-d8	8.71	98	376151	52.78	ug/l	0.00
Spiked Amount			Recovery	=	105.56%	
62) 4-Bromofluorobenzene	11.13	95	131288	47.41	ug/l	0.00
Spiked Amount			Recovery	=	94.82%	

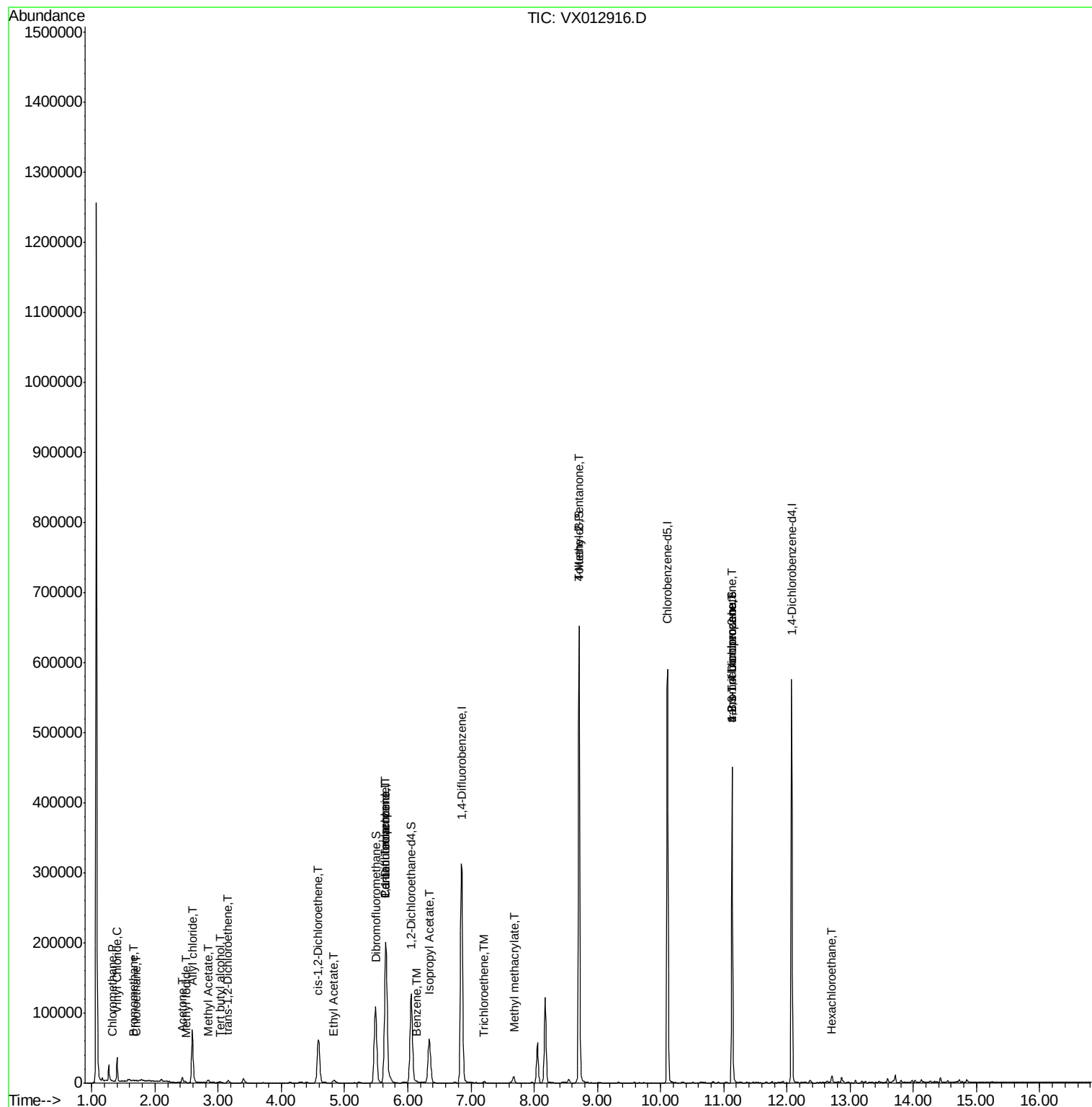
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	475	0.228	ug/l #	72
4) Vinyl Chloride	1.40	62	19268	8.950	ug/l	96
5) Bromomethane	1.66	94	328	0.366	ug/l #	41
6) Chloroethane	1.70	64	354	0.635	ug/l #	51
10) Methyl Iodide	2.50	142	45	5.101	ug/l #	40
11) Tert butyl alcohol	3.03	59	1816	2.915	ug/l #	81
14) Allyl chloride	2.59	41	7637	2.257	ug/l #	68
16) Acetone	2.43	43	8550	6.902	ug/l	95
18) Methyl Acetate	2.84	43	2340	0.797	ug/l #	51
21) trans-1,2-Dichloroethene	3.16	96	1187	0.583	ug/l #	70
27) cis-1,2-Dichloroethene	4.58	96	40207	17.127	ug/l	91
36) 1,1-Dichloropropene	5.65	75	14563	5.203	ug/l #	49
37) Ethyl Acetate	4.82	43	7364	2.353	ug/l #	80
38) Carbon Tetrachloride	5.65	117	20106	7.380	ug/l #	18
40) Benzene	6.14	78	2483	0.300	ug/l	93
43) Isopropyl Acetate	6.34	43	15105	3.007	ug/l #	60
44) Trichloroethene	7.20	130	884	0.386	ug/l	78
48) Methyl methacrylate	7.67	41	2894	1.182	ug/l #	30
51) 4-Methyl-2-Pentanone	8.71	43	2088	0.667	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	65437	26.480	ug/l #	32
81) trans-1,4-Dichloro-2-buten	11.13	75	65437	66.615	ug/l #	10
90) Hexachloroethane	12.70	117	181	2.249	ug/l #	13

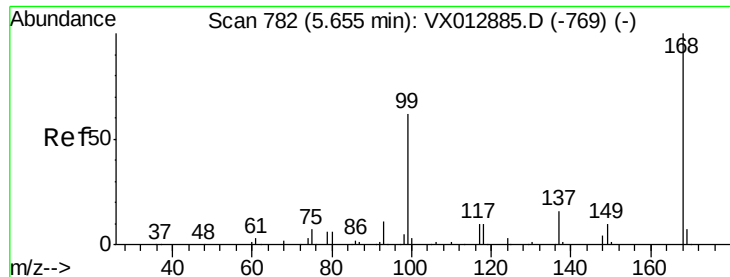
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Oct 09 01:51:23 2019
Response via : Initial Calibration

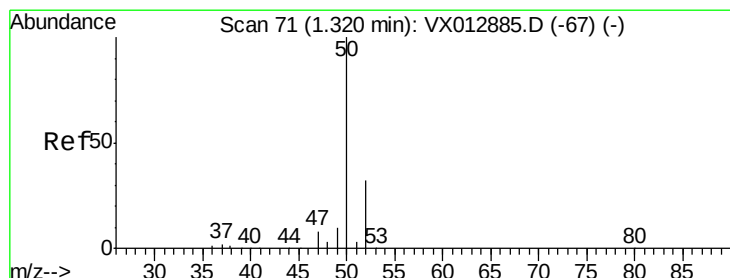
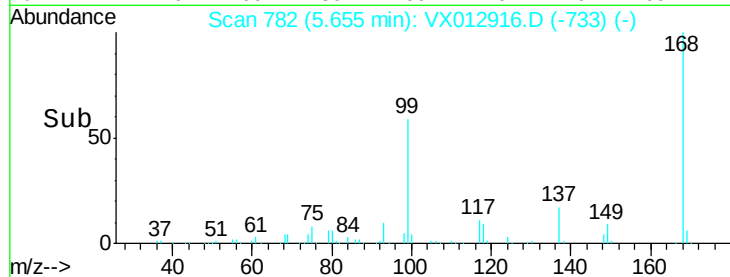
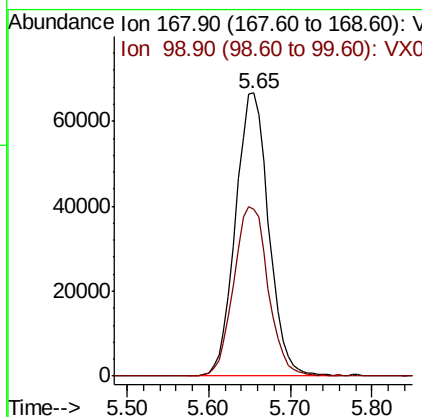
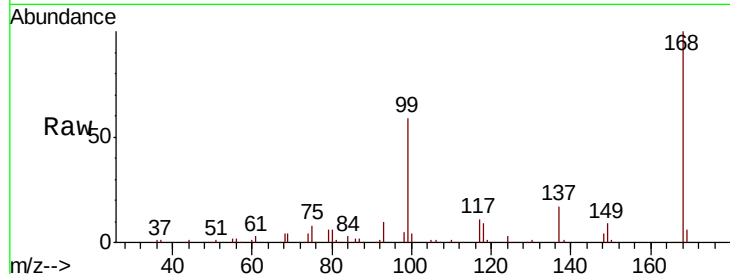




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.65 min Scan# 782
Delta R.T. 0.00 min
Lab File: VX012916.D
Acq: 09 Oct 2019 02:45

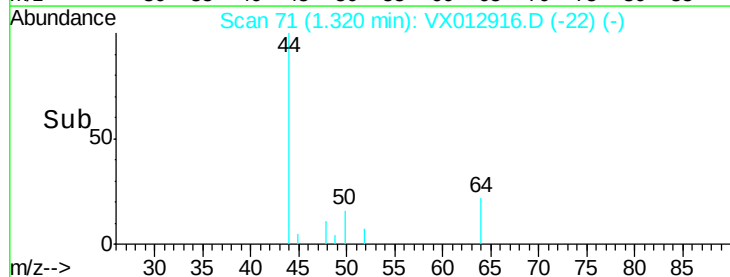
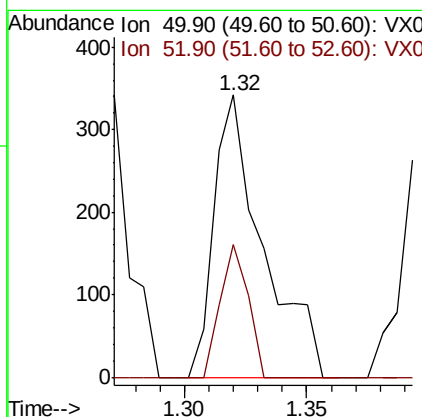
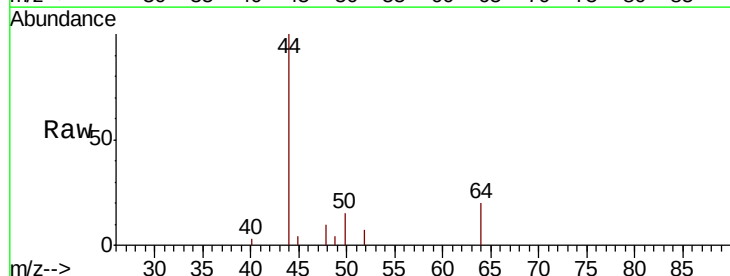
Instrument :
MSVOA_X
ClientSampleId :

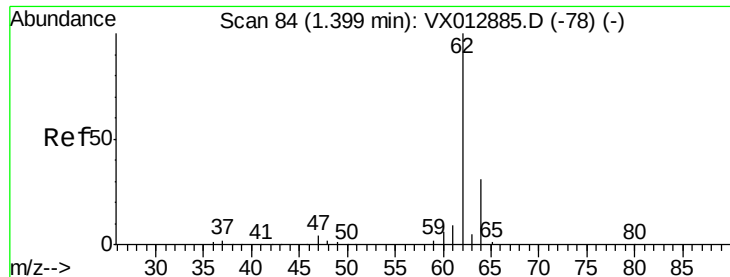
Tot Ion:168 Resp: 188031
Ion Ratio Lower Upper
168 100
99 58.7 49.4 74.0



#3
Chloromethane
Concen: 0.228 ug/l
RT: 1.32 min Scan# 71
Delta R.T. 0.00 min
Lab File: VX012916.D
Acq: 09 Oct 2019 02:45

Tgt Ion: 50 Resp: 475
Ion Ratio Lower Upper
50 100
52 46.8 25.2 37.8#





#4

Vinyl Chloride

Concen: 8.950 ug/l

RT: 1.40 min Scan# 84

Delta R.T. 0.00 min

Lab File: VX012916.D

Acq: 09 Oct 2019 02:45

Instrument :

MSVOA_X

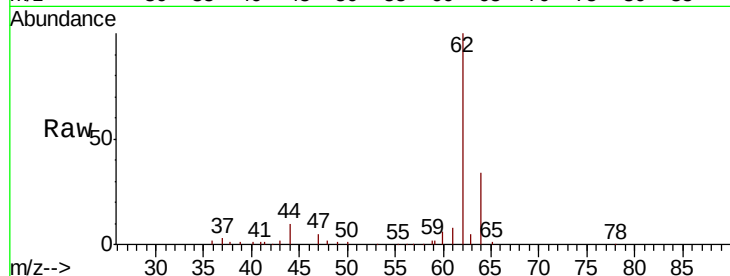
ClientSampleId :

Tot Ion: 62 Resp: 19268

Ion Ratio Lower Upper

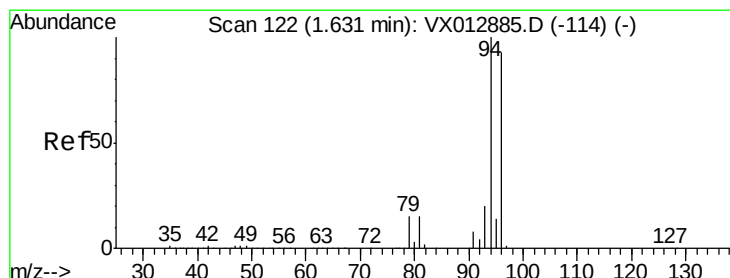
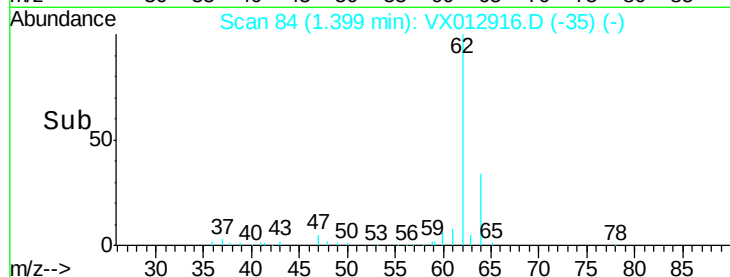
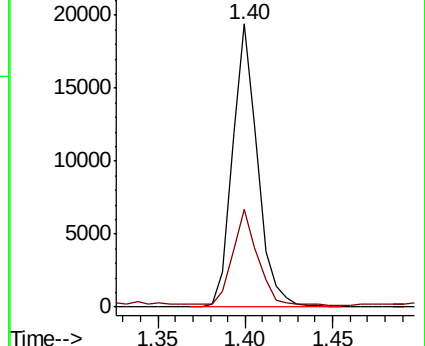
62 100

64 33.9 25.3 37.9



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#5

Bromomethane

Concen: 0.366 ug/l

RT: 1.66 min Scan# 126

Delta R.T. 0.02 min

Lab File: VX012916.D

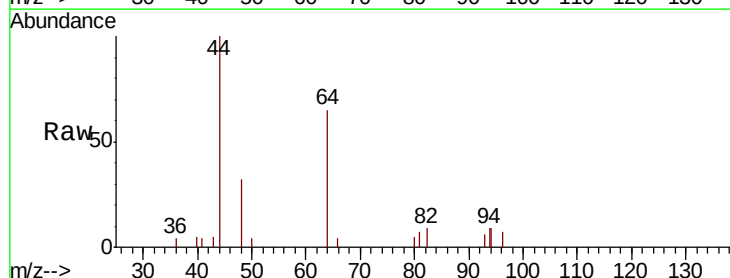
Acq: 09 Oct 2019 02:45

Tgt Ion: 94 Resp: 328

Ion Ratio Lower Upper

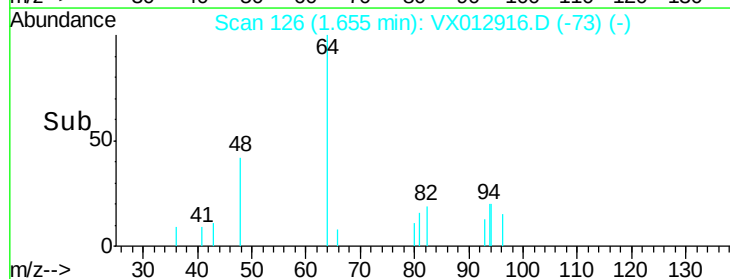
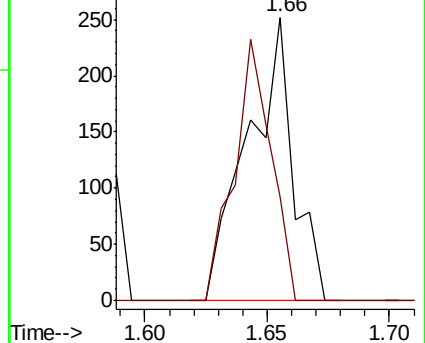
94 100

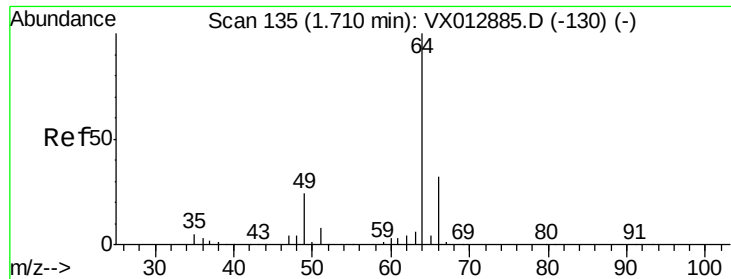
96 36.5 74.7 112.1#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.635 ug/l

RT: 1.70 min Scan# 133

Delta R.T. -0.01 min

Lab File: VX012916.D

Acq: 09 Oct 2019 02:45

Instrument :

MSVOA_X

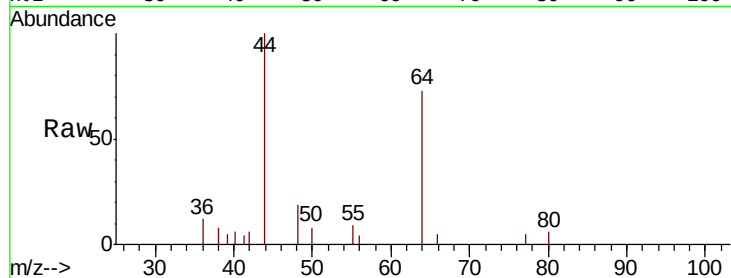
ClientSampleId :

Tot Ion: 64 Resp: 354

Ion Ratio Lower Upper

64 100

66 4.5 25.6 38.4#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1200

1000

800

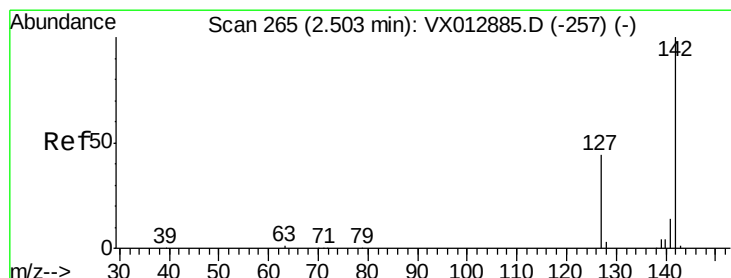
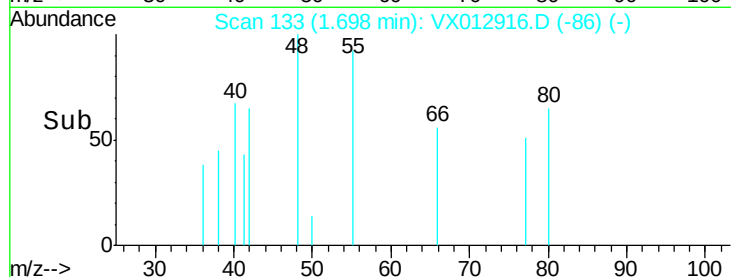
600

400

200

0

Time-->



#10

Methyl Iodide

Concen: 5.101 ug/l

RT: 2.50 min Scan# 264

Delta R.T. -0.01 min

Lab File: VX012916.D

Acq: 09 Oct 2019 02:45

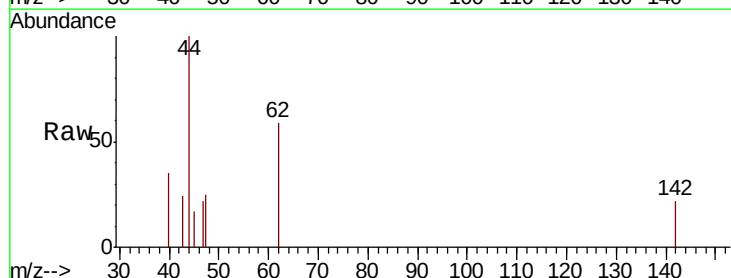
Tgt Ion: 142 Resp: 45

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

80

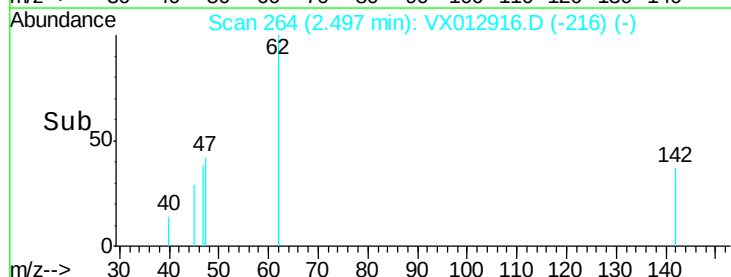
60

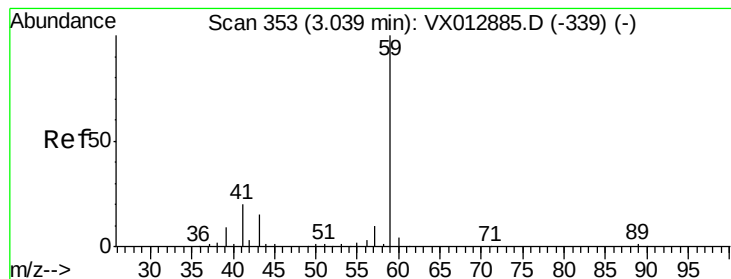
40

20

0

Time-->



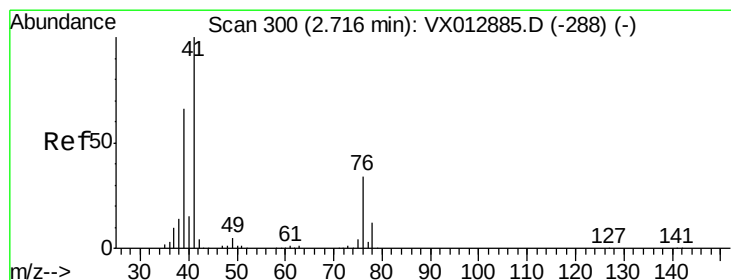
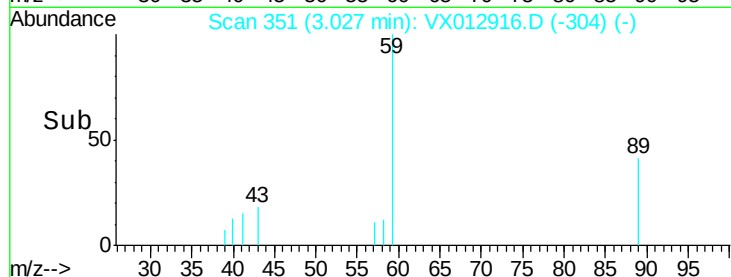
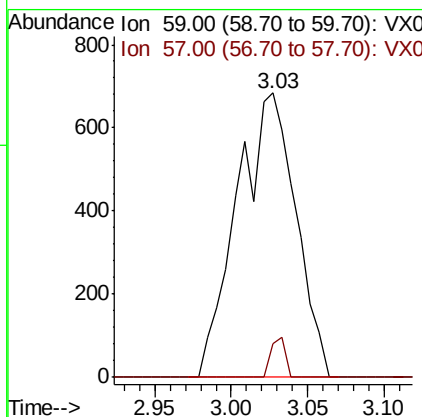
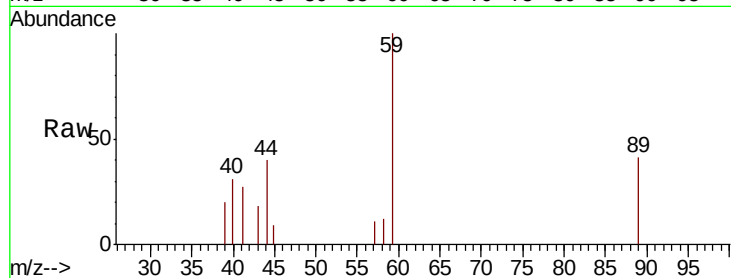


#11

Tert butyl alcohol
 Concen: 2.915 ug/l
 RT: 3.03 min Scan# 351
 Delta R.T. -0.01 min
 Lab File: VX012916.D
 Acq: 09 Oct 2019 02:45

Instrument :
 MSVOA_X
 ClientSampleId :

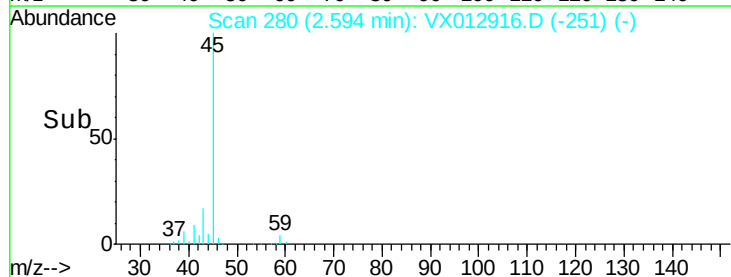
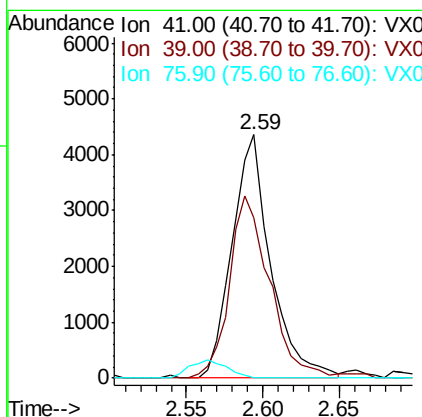
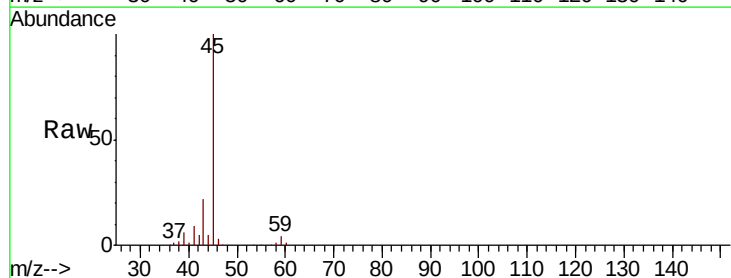
Tot Ion: 59 Resp: 1816
 Ion Ratio Lower Upper
 59 100
 57 3.5 8.3 12.5#

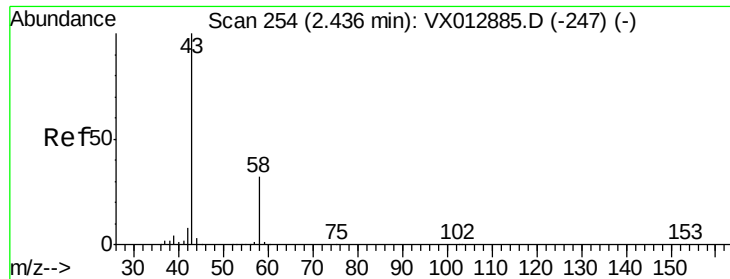


#14

Allyl chloride
 Concen: 2.257 ug/l
 RT: 2.59 min Scan# 280
 Delta R.T. -0.12 min
 Lab File: VX012916.D
 Acq: 09 Oct 2019 02:45

Tgt Ion: 41 Resp: 7637
 Ion Ratio Lower Upper
 41 100
 39 78.4 51.0 76.6#
 76 0.0 26.2 39.4#





#16

Acetone

Concen: 6.902 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX012916.D

Acq: 09 Oct 2019 02:45

Instrument :

MSVOA_X

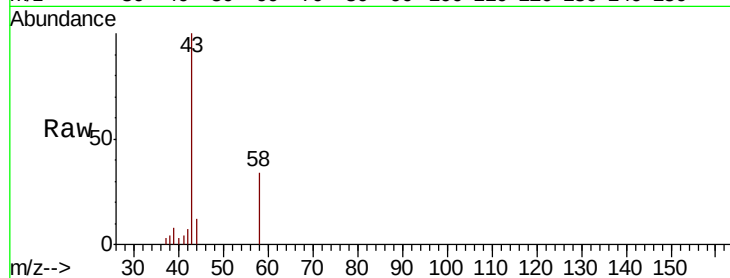
ClientSampled :

Tot Ion: 43 Resp: 8550

Ion Ratio Lower Upper

43 100

58 34.5 25.4 38.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.43

5000

4000

3000

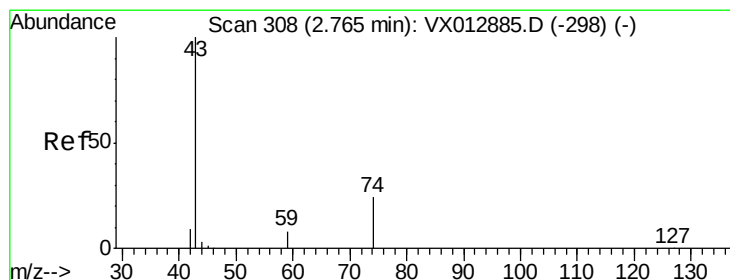
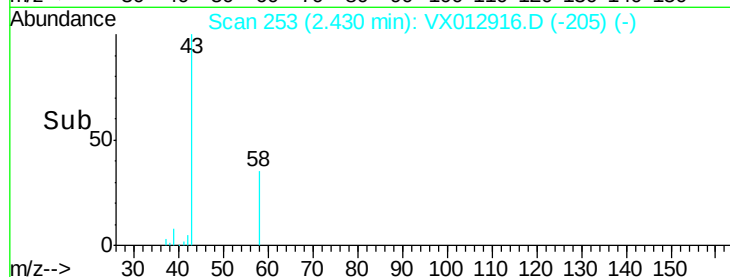
2000

1000

0

Time-->

2.35 2.40 2.45 2.50 2.55



#18

Methyl Acetate

Concen: 0.797 ug/l

RT: 2.84 min Scan# 320

Delta R.T. 0.07 min

Lab File: VX012916.D

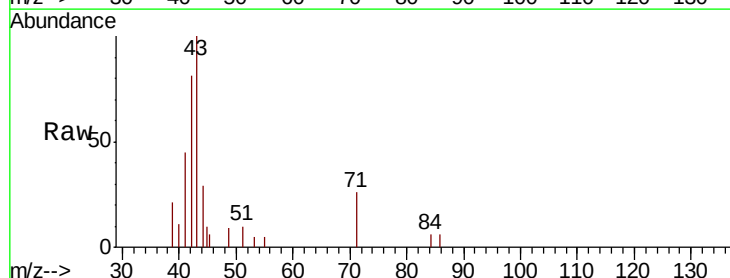
Acq: 09 Oct 2019 02:45

Tgt Ion: 43 Resp: 2340

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

2.84

1200

1000

800

600

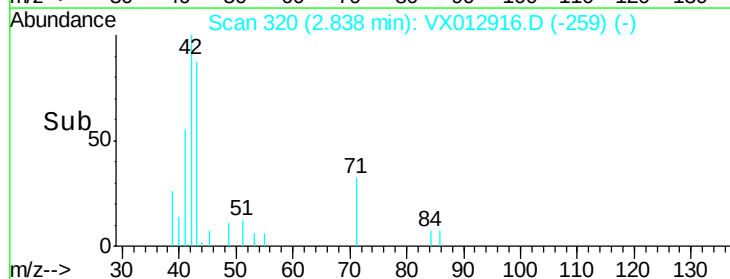
400

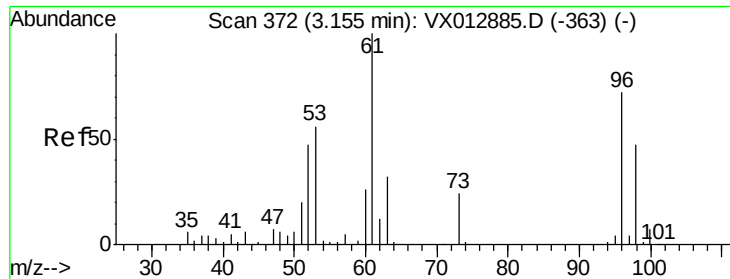
200

0

Time-->

2.80 2.85





#21

trans-1,2-Dichloroethene

Concen: 0.583 ug/l

RT: 3.16 min Scan# 373

Delta R.T. 0.01 min

Lab File: VX012916.D

Acq: 09 Oct 2019 02:45

Instrument :

MSVOA_X

ClientSampleId :

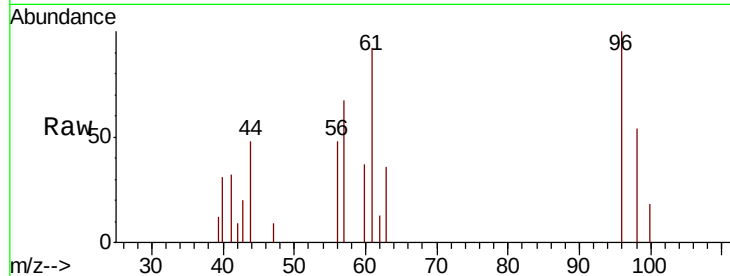
Tot Ion: 96 Resp: 1187

Ion Ratio Lower Upper

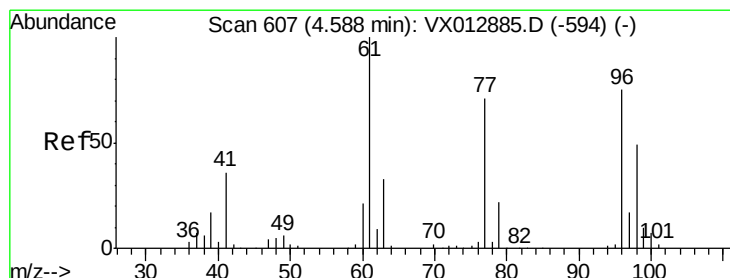
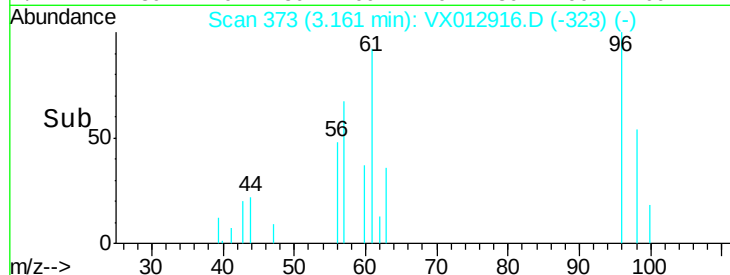
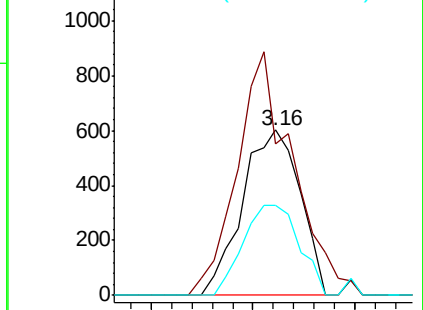
96 100

61 91.5 110.4 165.6#

98 54.2 51.5 77.3



Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



#27

cis-1,2-Dichloroethene

Concen: 17.127 ug/l

RT: 4.58 min Scan# 606

Delta R.T. -0.01 min

Lab File: VX012916.D

Acq: 09 Oct 2019 02:45

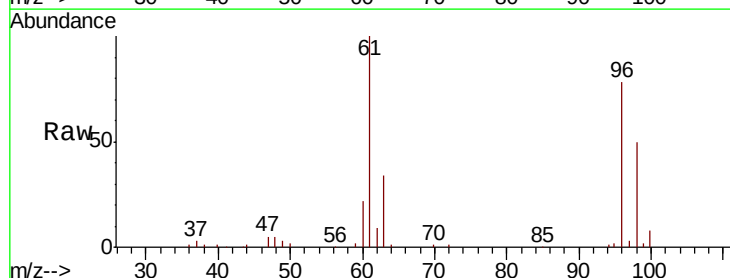
Tgt Ion: 96 Resp: 40207

Ion Ratio Lower Upper

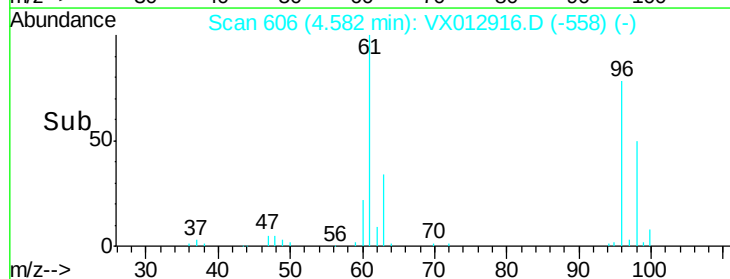
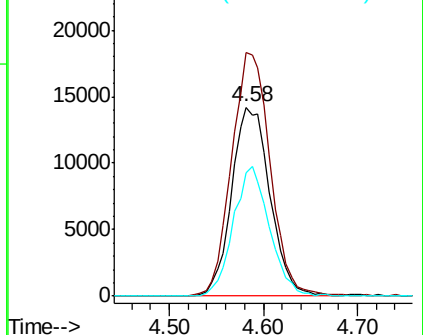
96 100

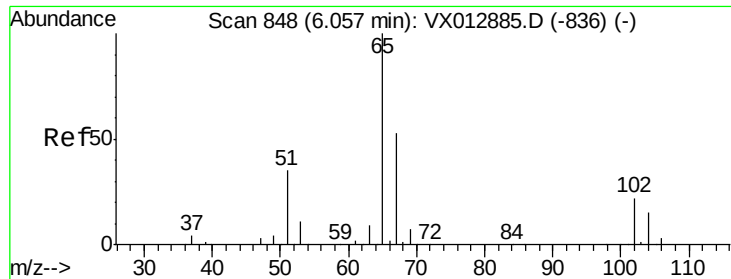
61 130.0 0.0 290.6

98 64.8 0.0 128.8



Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0





#33

1,2-Dichloroethane-d4

Concen: 52.555 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.01 min

Lab File: VX012916.D

Acq: 09 Oct 2019 02:45

Instrument :

MSVOA_X

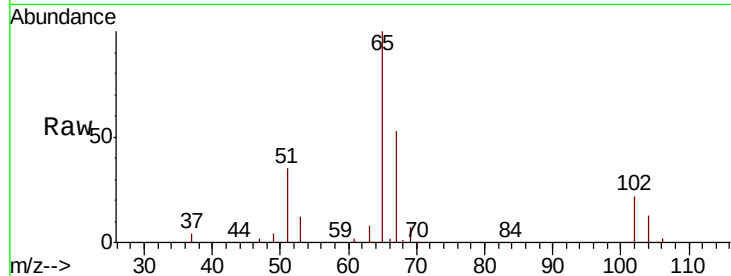
ClientSampleId :

Tot Ion: 65 Resp: 123513

Ion Ratio Lower Upper

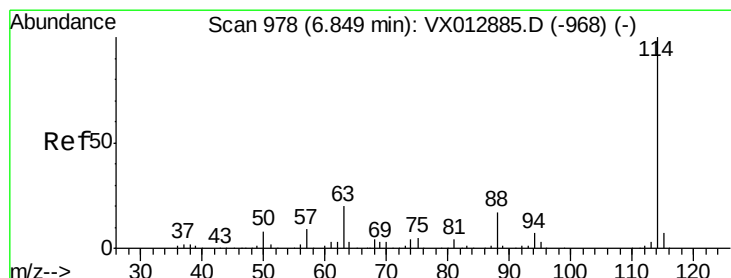
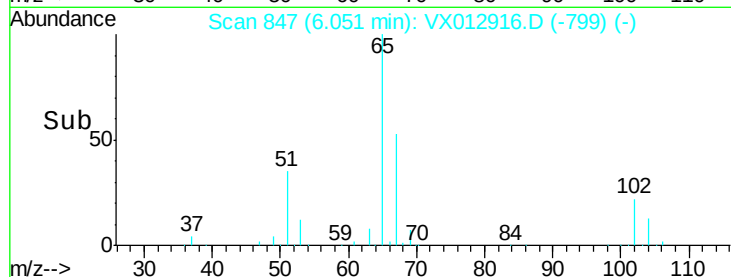
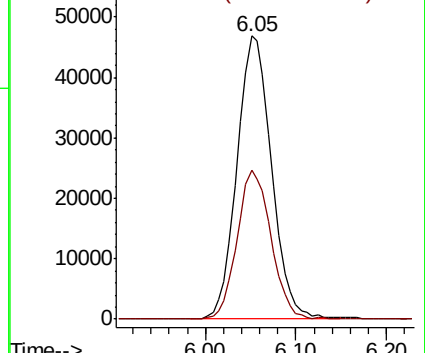
65 100

67 51.7 0.0 104.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX012916.D

Acq: 09 Oct 2019 02:45

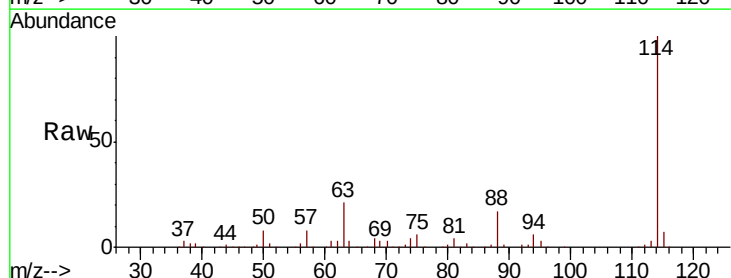
Tgt Ion: 114 Resp: 318354

Ion Ratio Lower Upper

114 100

63 20.7 0.0 40.8

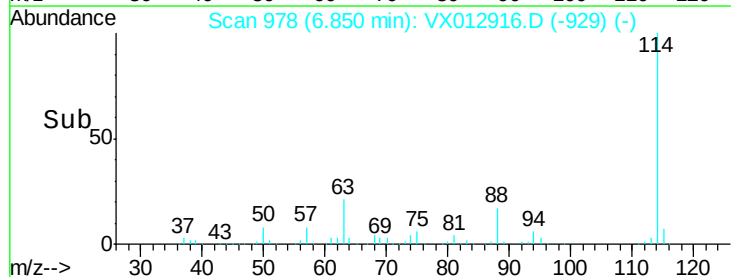
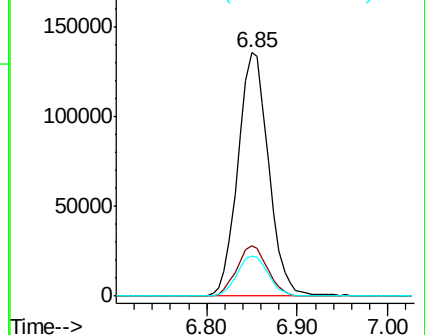
88 16.7 0.0 33.8

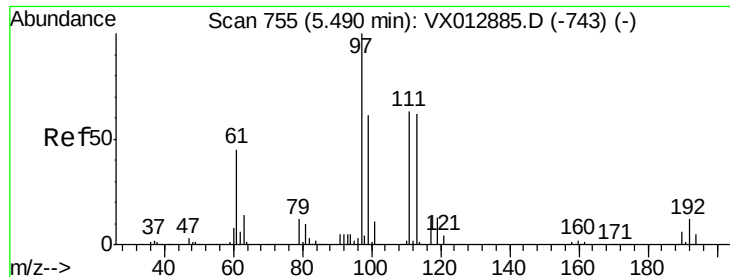


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

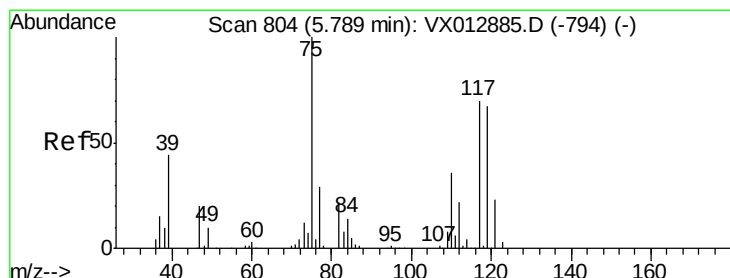
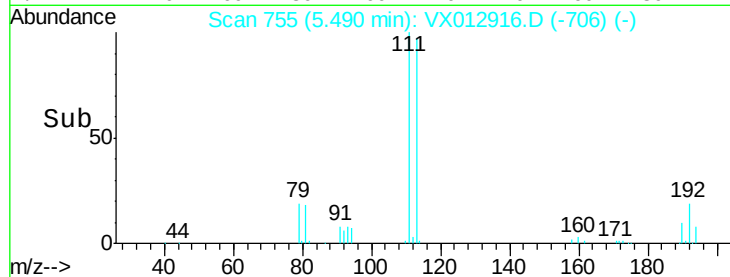
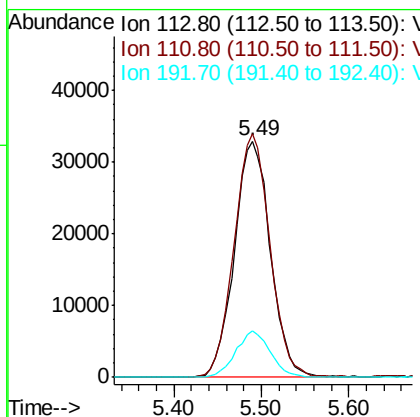
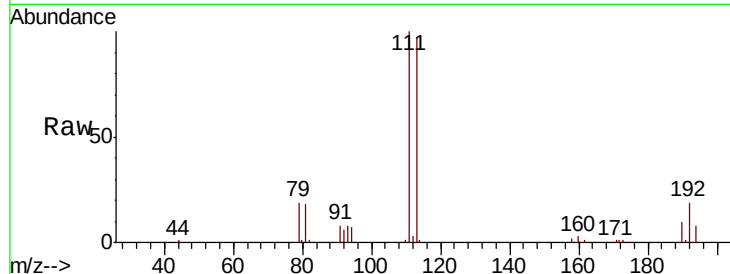




#35
 Dibromofluoromethane
 Concen: 51.546 ug/l
 RT: 5.49 min Scan# 755
 Delta R.T. 0.00 min
 Lab File: VX012916.D
 Acq: 09 Oct 2019 02:45

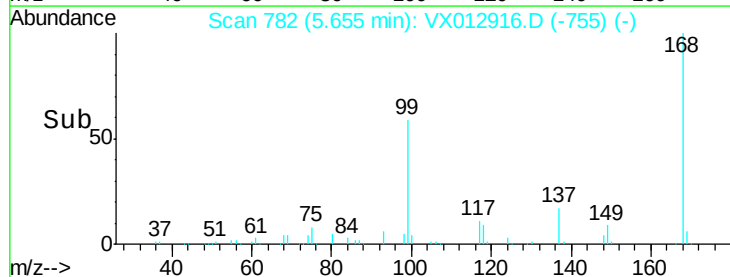
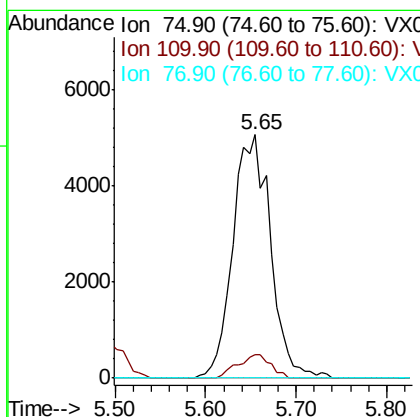
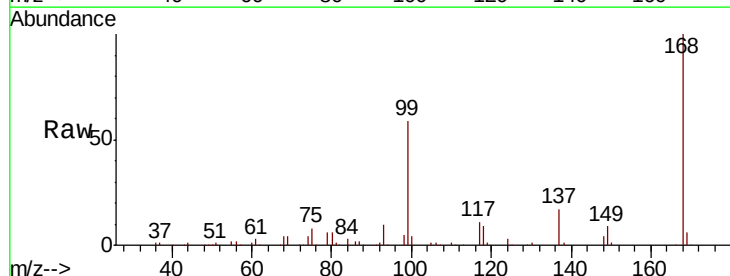
Instrument :
 MSVOA_X
 ClientSampleId :

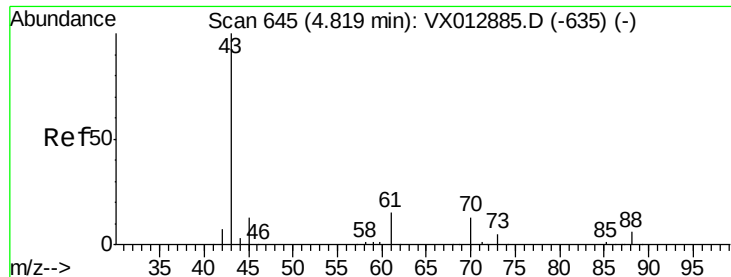
Tot Ion:113 Resp: 94184
 Ion Ratio Lower Upper
 113 100
 111 102.4 83.2 124.8
 192 18.8 15.4 23.2



#36
 1,1-Dichloropropene
 Concen: 5.203 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.13 min
 Lab File: VX012916.D
 Acq: 09 Oct 2019 02:45

Tgt Ion: 75 Resp: 14563
 Ion Ratio Lower Upper
 75 100
 110 8.4 17.6 52.9#
 77 0.0 24.4 36.6#





#37

Ethyl Acetate

Concen: 2.353 ug/l

RT: 4.82 min Scan# 645

Delta R.T. 0.00 min

Lab File: VX012916.D

Acq: 09 Oct 2019 02:45

Instrument :

MSVOA_X

ClientSampleId :

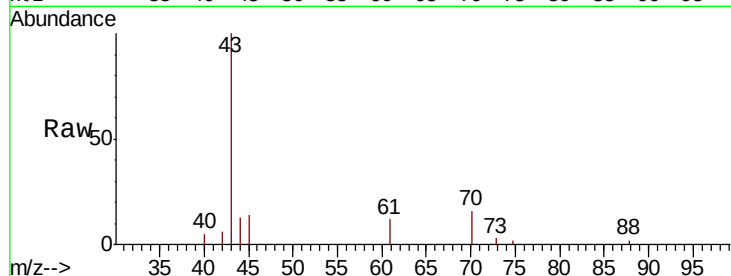
Tot Ion: 43 Resp: 7364

Ion Ratio Lower Upper

43 100

61 0.0 11.4 17.0#

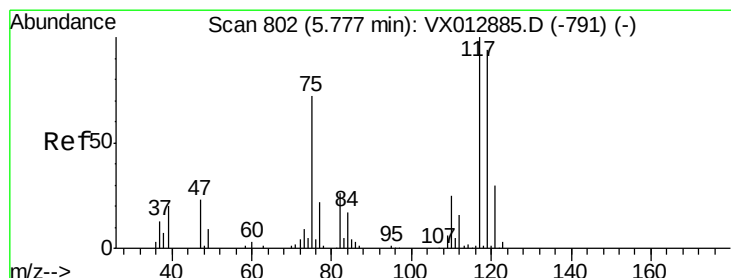
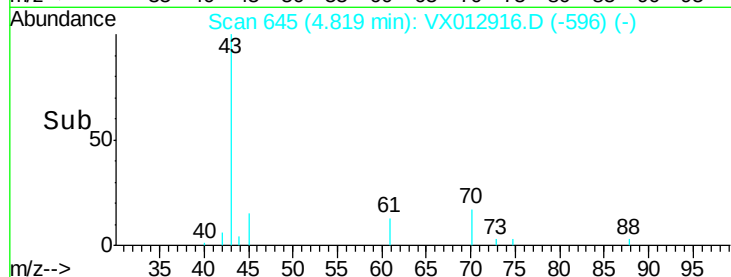
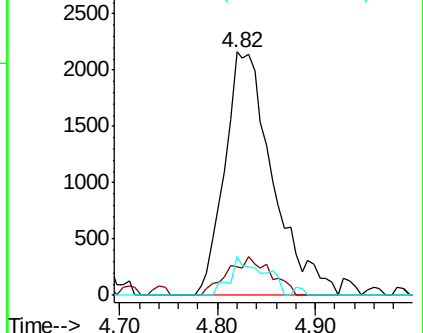
70 11.1 9.8 14.6



Abundance Ion 43.00 (42.70 to 43.70): VX012885.D (-635) (-)

Ion 60.90 (60.60 to 61.60): VX012885.D (-635) (-)

Ion 70.00 (69.70 to 70.70): VX012885.D (-635) (-)



#38

Carbon Tetrachloride

Concen: 7.380 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX012916.D

Acq: 09 Oct 2019 02:45

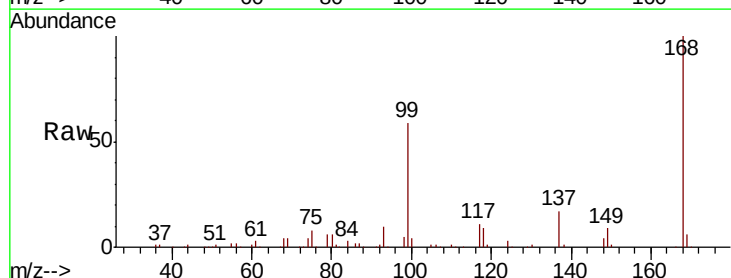
Tgt Ion: 117 Resp: 20106

Ion Ratio Lower Upper

117 100

119 5.7 74.5 111.7#

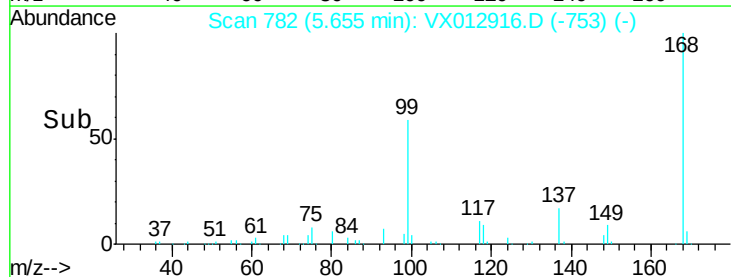
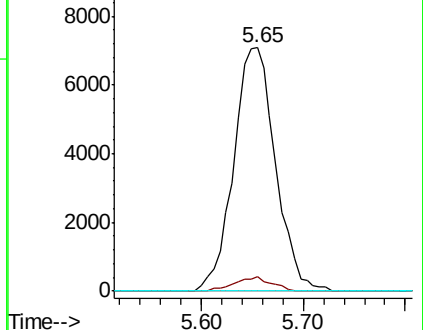
121 0.0 24.2 36.4#

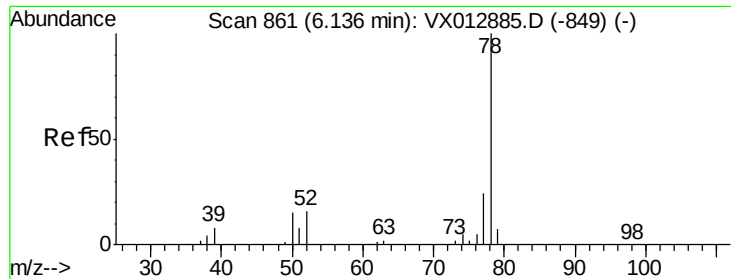


Abundance Ion 116.80 (116.50 to 117.50): VX012885.D (-791) (-)

Ion 118.80 (118.50 to 119.50): VX012885.D (-791) (-)

Ion 120.80 (120.50 to 121.50): VX012885.D (-791) (-)

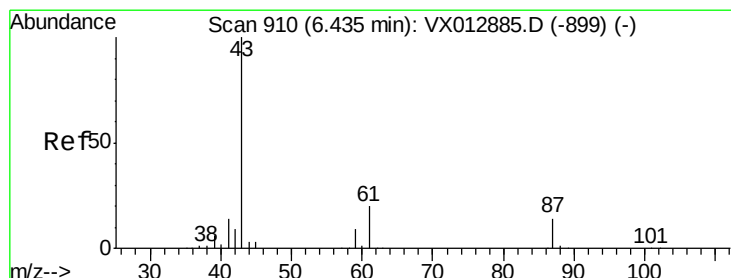
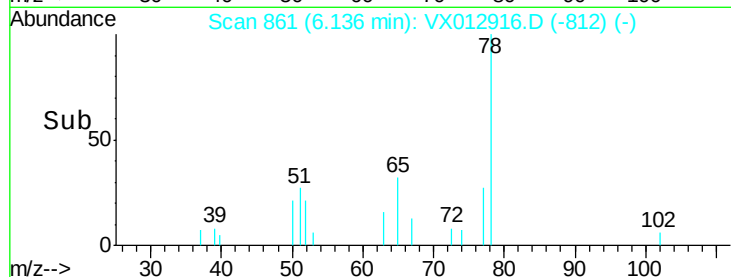
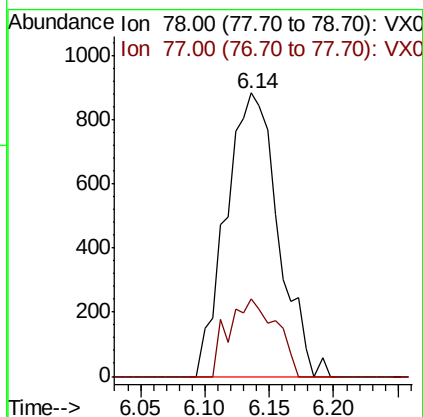
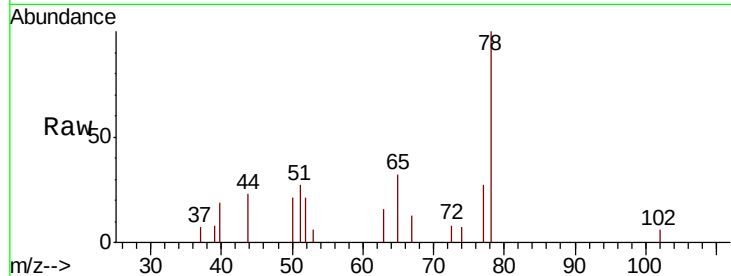




#40
Benzene
Concen: 0.300 ug/l
RT: 6.14 min Scan# 861
Delta R.T. 0.00 min
Lab File: VX012916.D
Acq: 09 Oct 2019 02:45

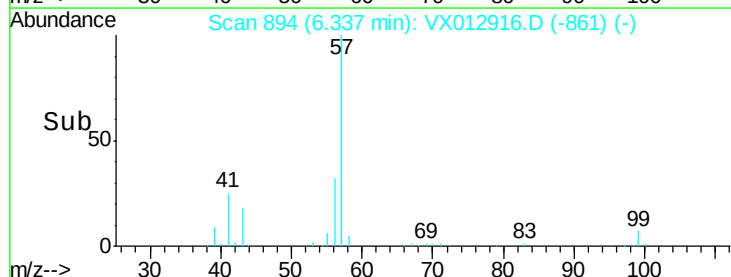
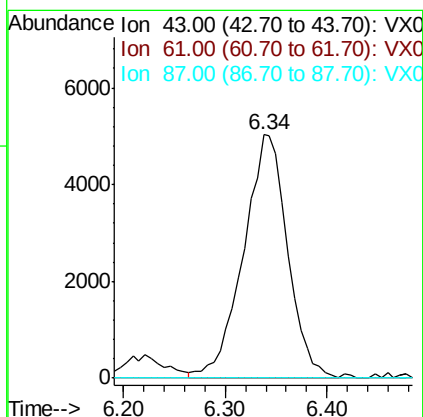
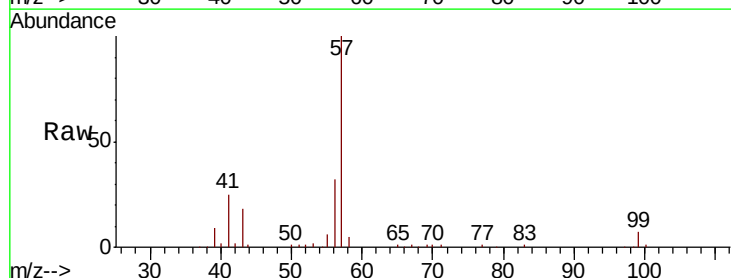
Instrument :
MSVOA_X
ClientSampled :

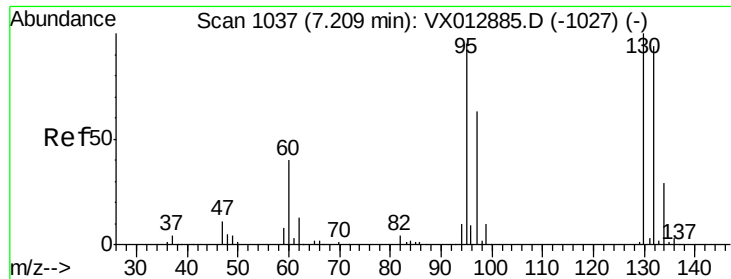
Tot Ion: 78 Resp: 2483
Ion Ratio Lower Upper
78 100
77 27.2 19.0 28.4



#43
Isopropyl Acetate
Concen: 3.007 ug/l
RT: 6.34 min Scan# 894
Delta R.T. -0.10 min
Lab File: VX012916.D
Acq: 09 Oct 2019 02:45

Tgt Ion: 43 Resp: 15105
Ion Ratio Lower Upper
43 100
61 0.0 16.6 24.8#
87 0.0 11.0 16.6#





#44

Trichloroethene

Concen: 0.386 ug/l

RT: 7.20 min Scan# 1036

Delta R.T. -0.01 min

Lab File: VX012916.D

Acq: 09 Oct 2019 02:45

Instrument :

MSVOA_X

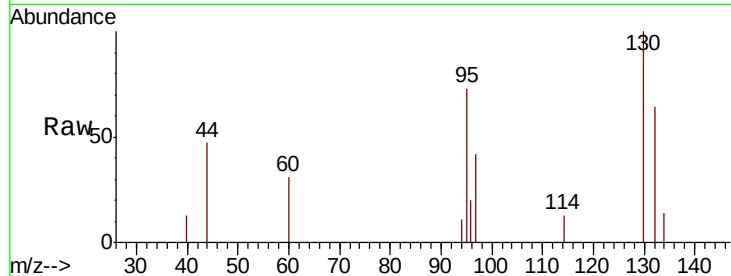
ClientSampled :

Tot Ion:130 Resp: 884

Ion Ratio Lower Upper

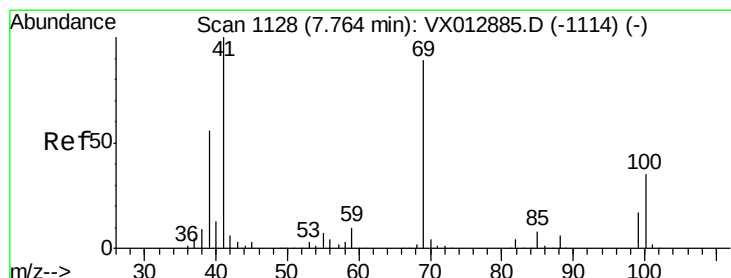
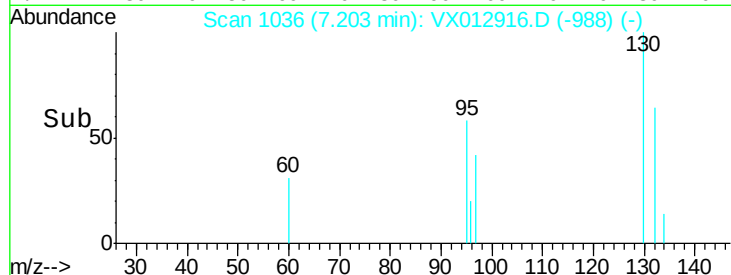
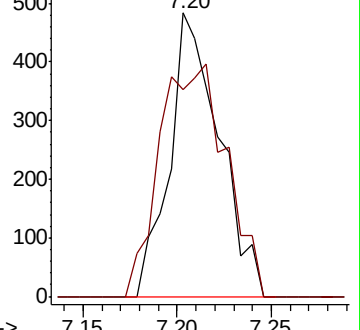
130 100

95 73.3 0.0 189.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#48

Methyl methacrylate

Concen: 1.182 ug/l

RT: 7.67 min Scan# 1113

Delta R.T. -0.09 min

Lab File: VX012916.D

Acq: 09 Oct 2019 02:45

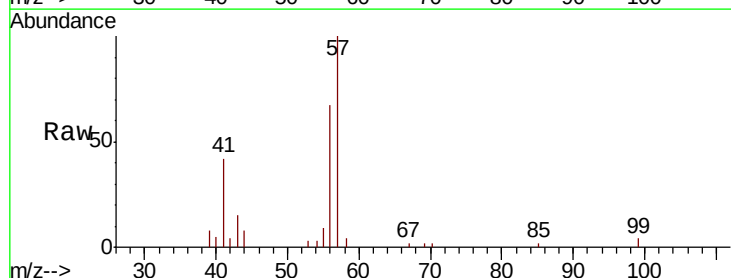
Tgt Ion: 41 Resp: 2894

Ion Ratio Lower Upper

41 100

69 3.8 68.7 103.1#

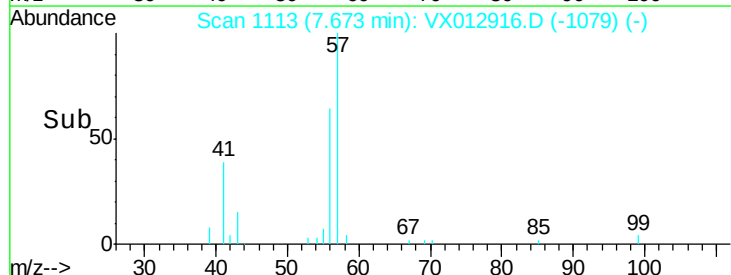
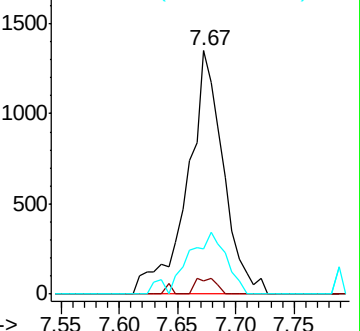
39 26.0 44.3 66.5#

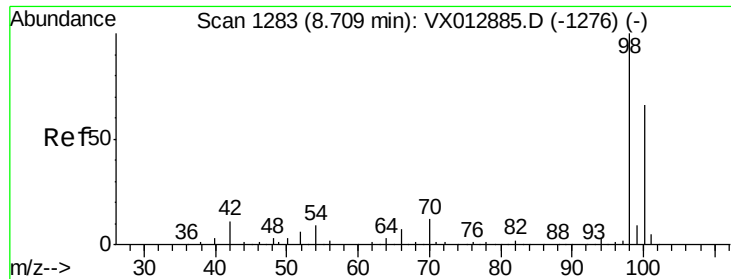


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

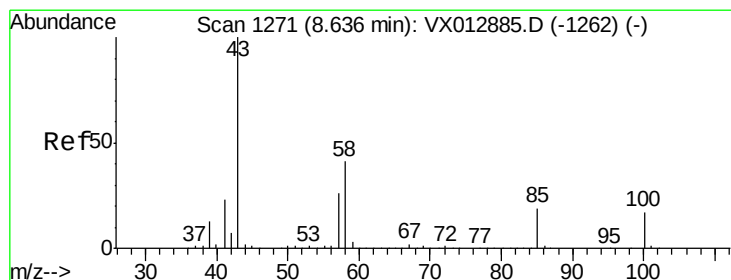
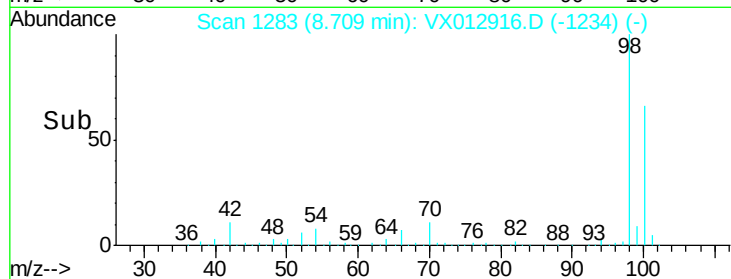
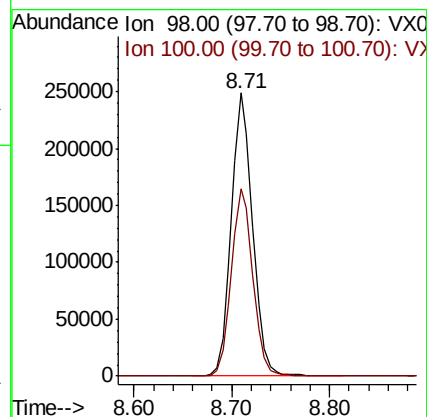
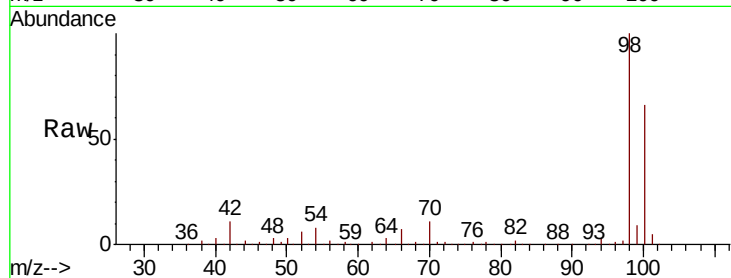




#50
Toluene-d8
Concen: 52.782 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX012916.D
Acq: 09 Oct 2019 02:45

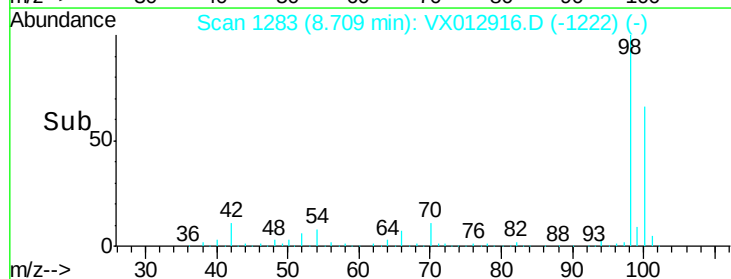
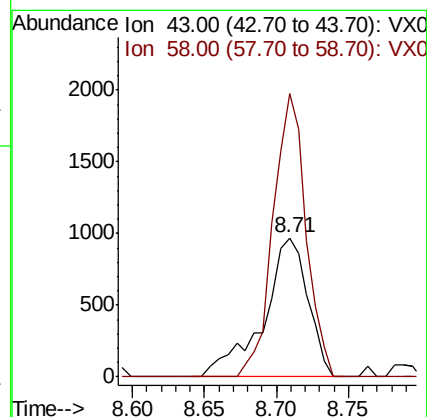
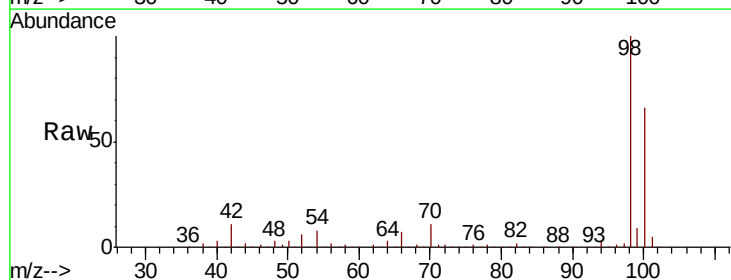
Instrument :
MSVOA_X
ClientSampleId :

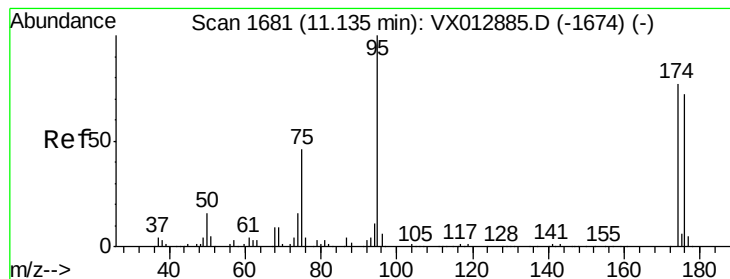
Tot Ion: 98 Resp: 376151
Ion Ratio Lower Upper
98 100
100 67.1 53.4 80.2



#51
4-Methyl-2-Pentanone
Concen: 0.667 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.07 min
Lab File: VX012916.D
Acq: 09 Oct 2019 02:45

Tgt Ion: 43 Resp: 2088
Ion Ratio Lower Upper
43 100
58 150.3 32.4 48.6#





#62

4-Bromofluorobenzene

Concen: 47.413 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.01 min

Lab File: VX012916.D

Acq: 09 Oct 2019 02:45

Instrument :

MSVOA_X

ClientSampled :

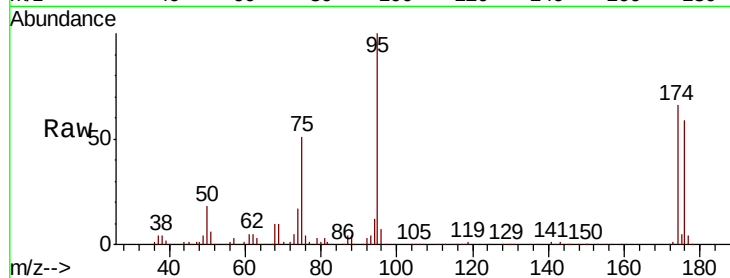
Tot Ion: 95 Resp: 131288

Ion Ratio Lower Upper

95 100

174 72.2 0.0 143.4

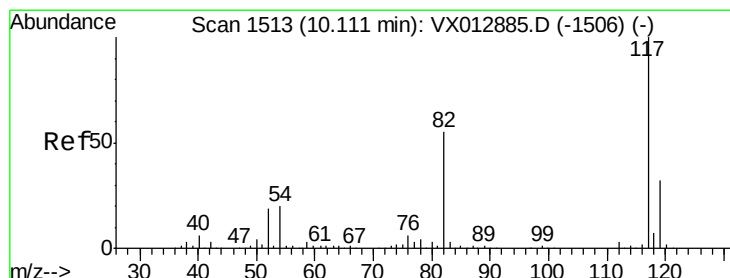
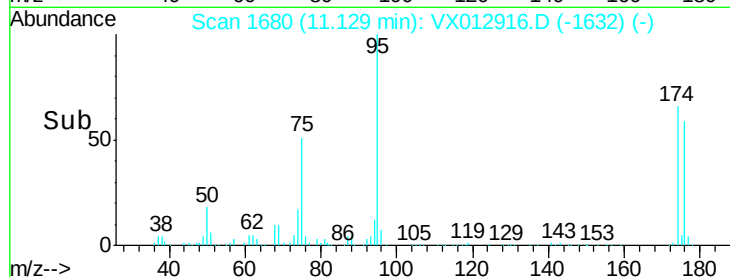
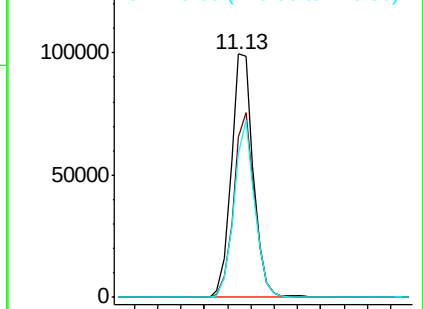
176 68.2 0.0 136.0



Abundance Ion 94.90 (94.60 to 95.60): VX012885.D (-1674) (-)

Ion 173.80 (173.50 to 174.50): VX012885.D (-1674) (-)

Ion 175.80 (175.50 to 176.50): VX012885.D (-1674) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX012916.D

Acq: 09 Oct 2019 02:45

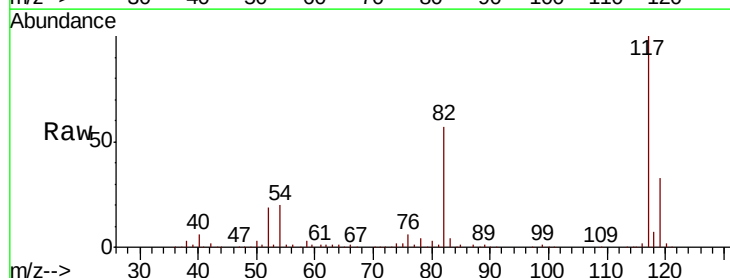
Tgt Ion: 117 Resp: 276797

Ion Ratio Lower Upper

117 100

82 56.7 44.1 66.1

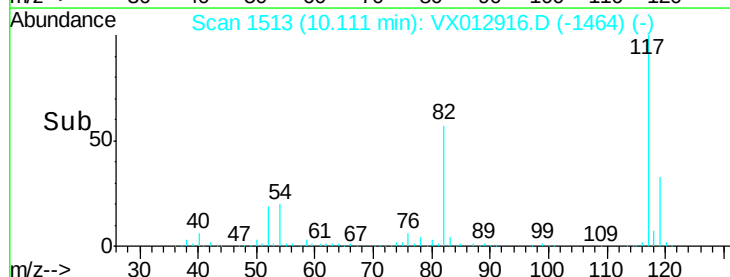
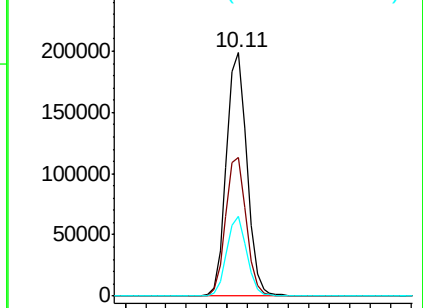
119 32.5 25.8 38.8

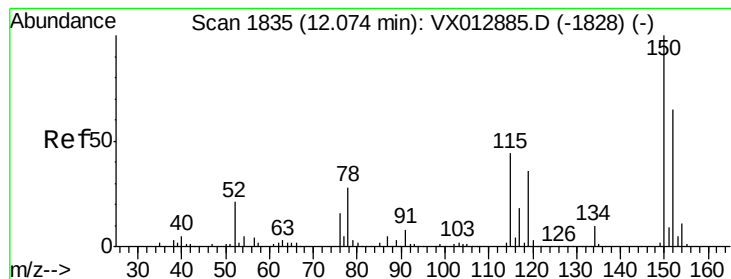


Abundance Ion 116.90 (116.60 to 117.60): VX012885.D (-1506) (-)

Ion 82.00 (81.70 to 82.70): VX012885.D (-1506) (-)

Ion 118.90 (118.60 to 119.60): VX012885.D (-1506) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX012916.D

Acq: 09 Oct 2019 02:45

Instrument :

MSVOA_X

ClientSampleId :

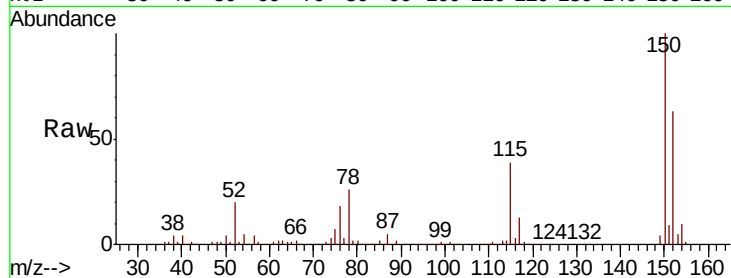
Tot Ion:152 Resp: 111416

Ion Ratio Lower Upper

152 100

115 63.7 44.5 133.5

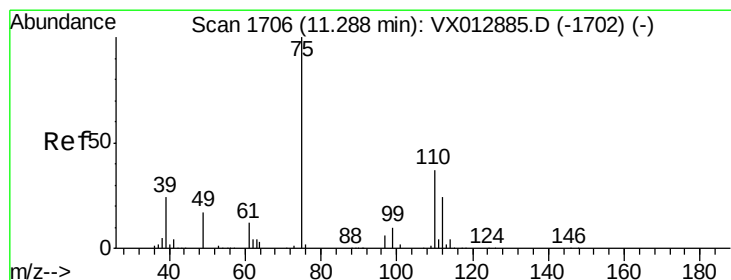
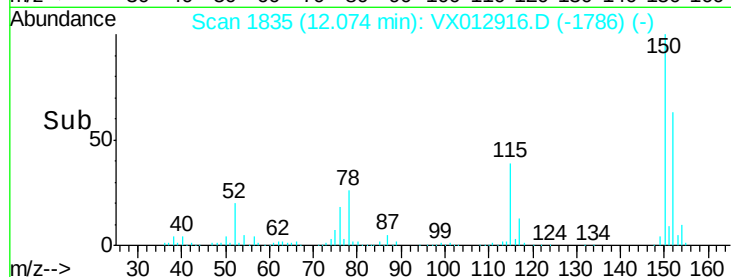
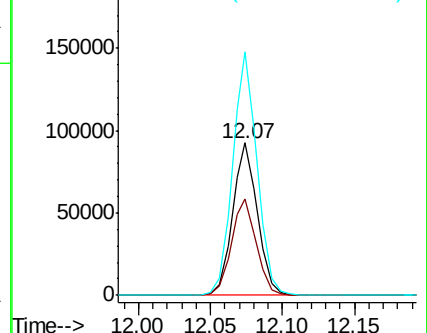
150 157.5 0.0 353.4



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: 26.480 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX012916.D

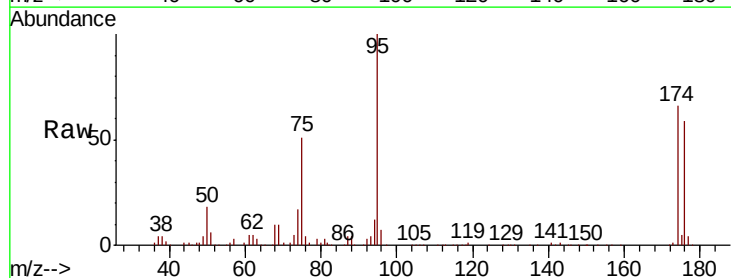
Acq: 09 Oct 2019 02:45

Tgt Ion: 75 Resp: 65437

Ion Ratio Lower Upper

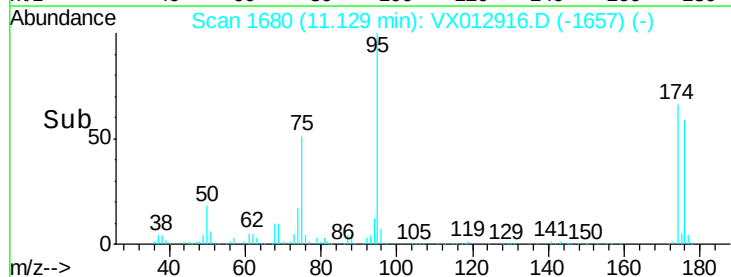
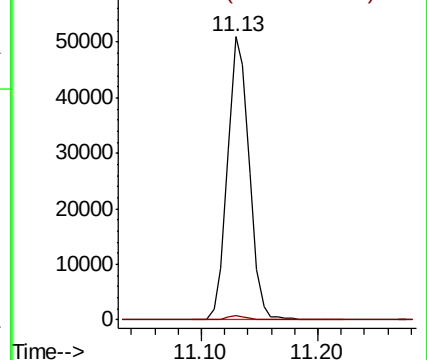
75 100

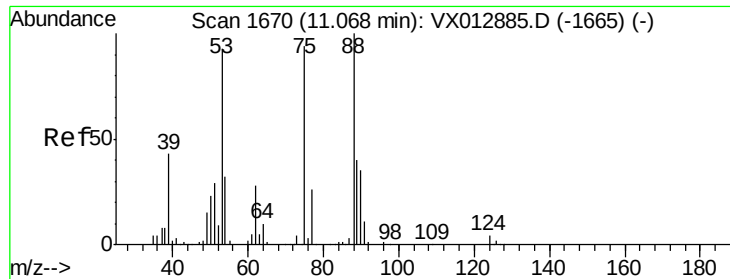
77 1.3 22.9 68.8#



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: 66.615 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX012916.D

Acq: 09 Oct 2019 02:45

Instrument :

MSVOA_X

ClientSampleId :

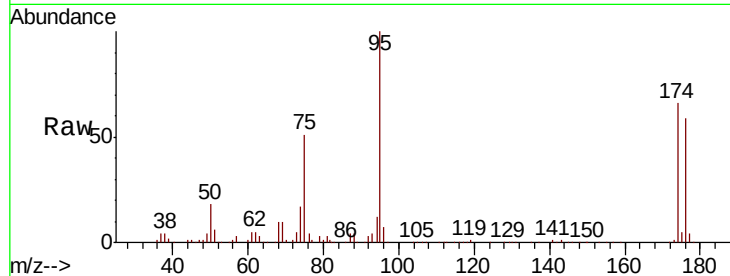
Tot Ion: 75 Resp: 65437

Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

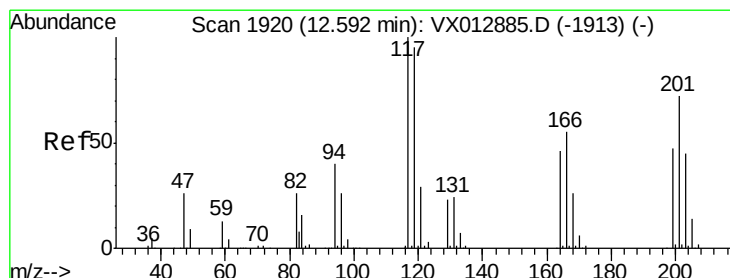
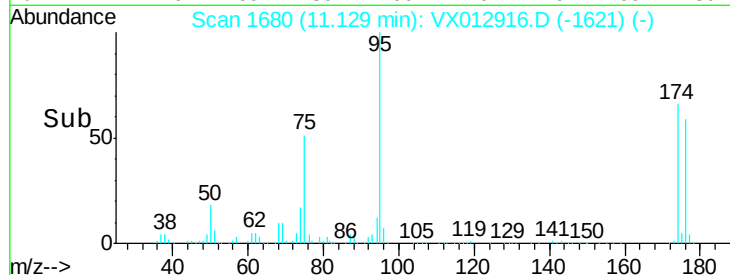
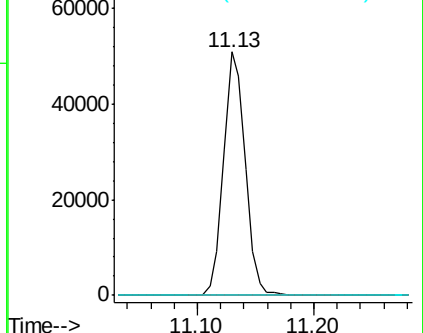
89 0.0 37.4 56.2#



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: 2.249 ug/l

RT: 12.70 min Scan# 1937

Delta R.T. 0.10 min

Lab File: VX012916.D

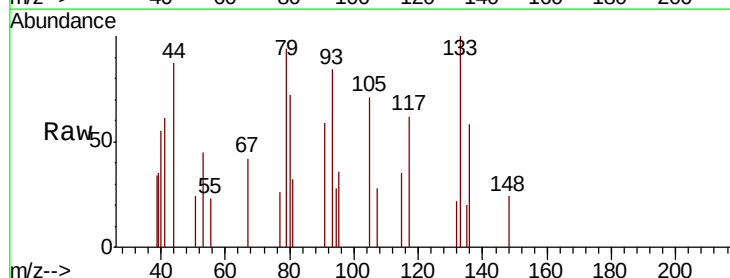
Acq: 09 Oct 2019 02:45

Tgt Ion: 117 Resp: 181

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

