

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100719\
 Data File : VX012870.D
 Acq On : 08 Oct 2019 04:50
 Operator : JC/SP
 Sample : K5122-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Oct 08 11:17:55 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	180055	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	301044	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	252805	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	100828	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	117156	44.68	ug/l	0.00
Spiked Amount			Recovery	=	89.36%	
35) Dibromofluoromethane	5.49	113	90186	50.30	ug/l	0.00
Spiked Amount			Recovery	=	100.60%	
50) Toluene-d8	8.71	98	358912	51.98	ug/l	0.00
Spiked Amount			Recovery	=	103.96%	
62) 4-Bromofluorobenzene	11.14	95	122252	45.03	ug/l	0.00
Spiked Amount			Recovery	=	90.06%	

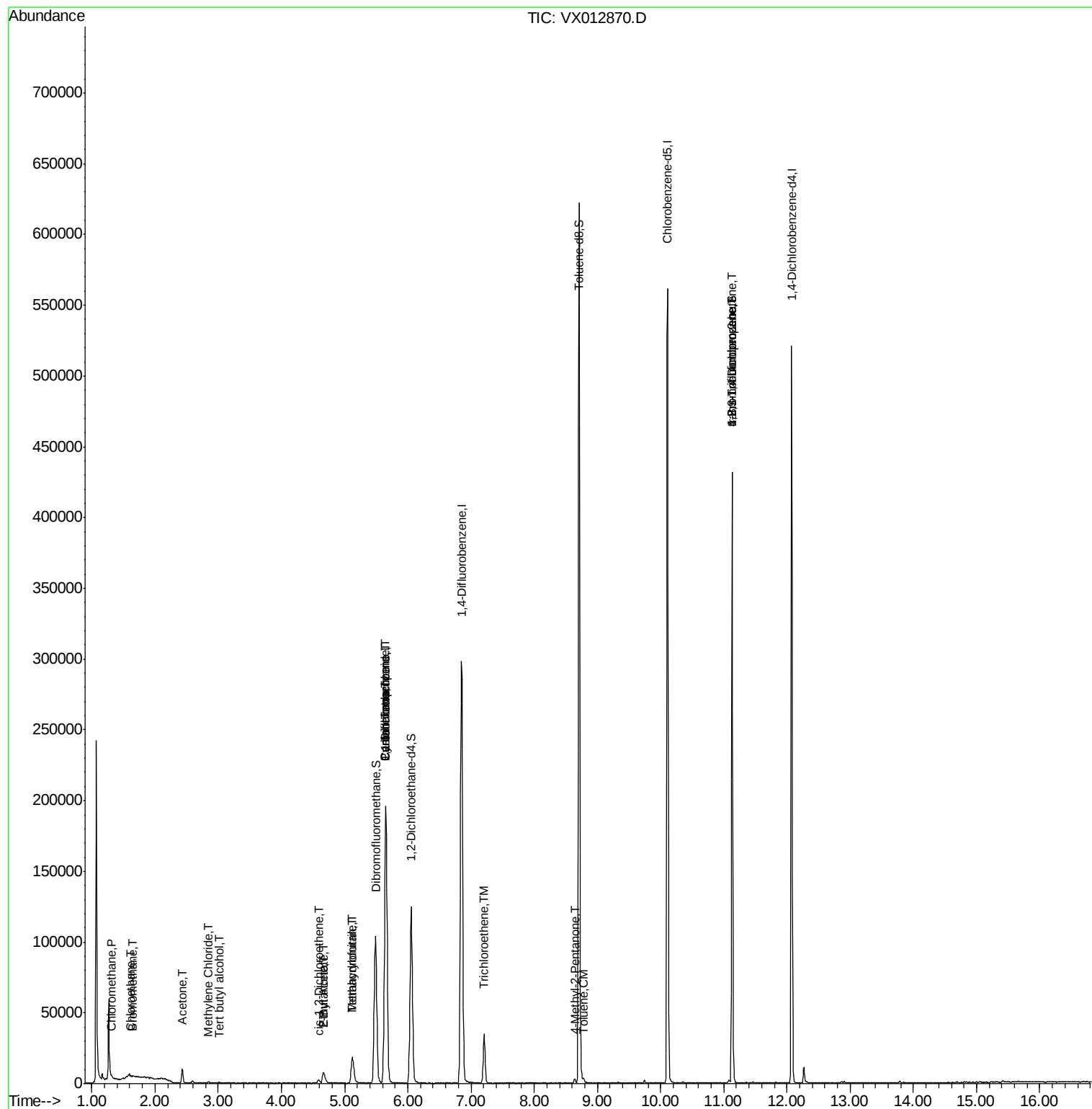
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	579	0.249	ug/l	94
5) Bromomethane	1.65	94	349	0.384	ug/l #	78
6) Chloroethane	1.62	64	1623	1.041	ug/l #	45
11) Tert butyl alcohol	3.02	59	921	1.406	ug/l #	72
16) Acetone	2.43	43	10300	7.416	ug/l	92
20) Methylene Chloride	2.84	84	582	0.248	ug/l #	72
25) 2-Butanone	4.67	43	14570	7.317	ug/l #	90
27) cis-1,2-Dichloroethene	4.59	96	1516	0.609	ug/l	84
29) Tetrahydrofuran	5.12	42	17814	14.677	ug/l	96
31) Cyclohexane	5.65	56	3748	1.027	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	14796	5.099	ug/l #	51
37) Ethyl Acetate	4.67	43	14570	4.295	ug/l #	69
38) Carbon Tetrachloride	5.65	117	18728	6.354	ug/l #	16
41) Methacrylonitrile	5.12	41	9689	5.090	ug/l #	49
44) Trichloroethene	7.21	130	13759	6.304	ug/l	96
51) 4-Methyl-2-Pentanone	8.64	43	1971	0.563	ug/l	97
52) Toluene	8.78	92	1084	0.202	ug/l #	69
76) 1,2,3-Trichloropropane	11.14	75	60847	22.814	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.14	75	60847	65.378	ug/l #	8

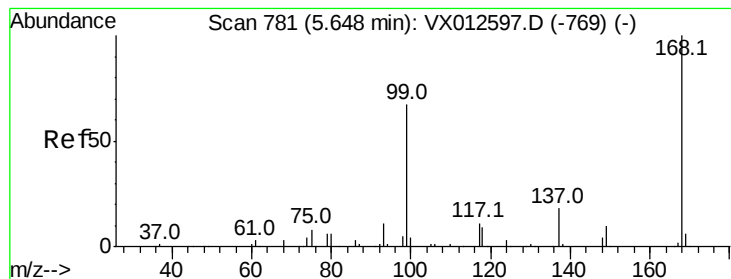
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
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ClientSampleId :

Quant Time: Oct 08 11:17:55 2019
Quant Method : Z:\V0ASRV\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# 781

Delta R.T. 0.00 min

Lab File: VX012870.D

Acq: 08 Oct 2019 04:50

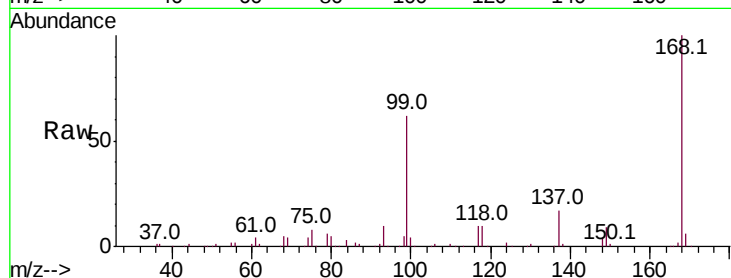
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 180055

Ion Ratio Lower Upper

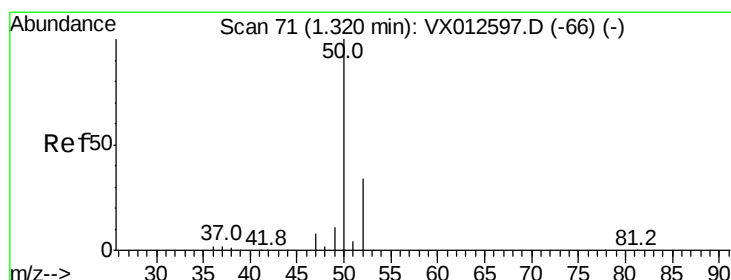
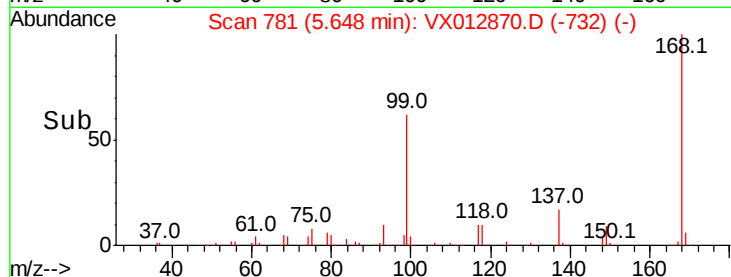
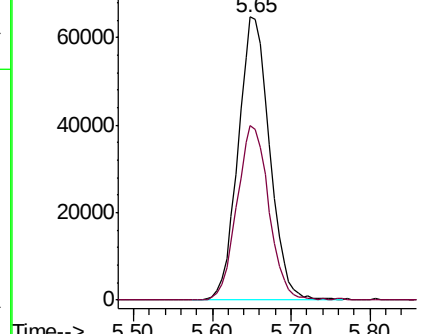
168 100

99 61.8 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.249 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX012870.D

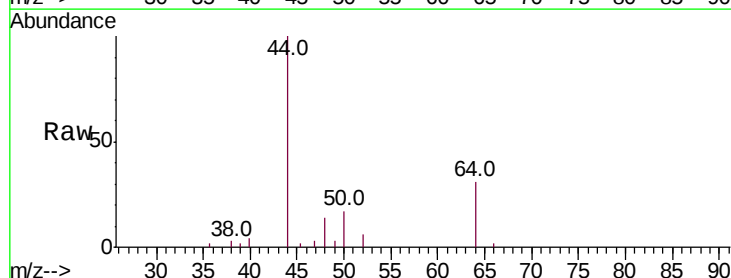
Acq: 08 Oct 2019 04:50

Tgt Ion: 50 Resp: 579

Ion Ratio Lower Upper

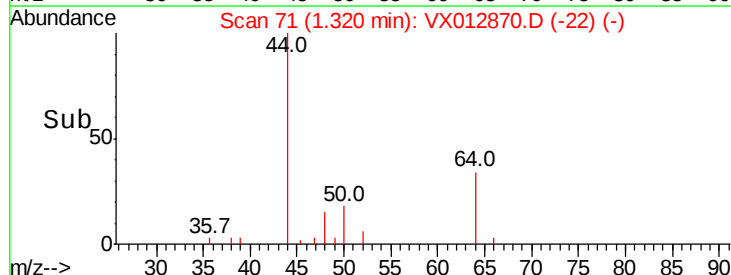
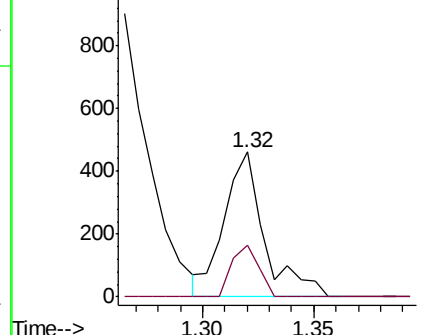
50 100

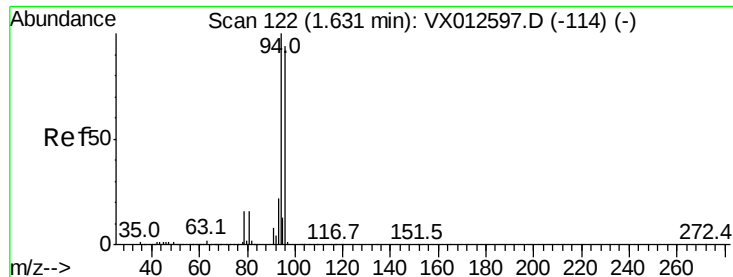
52 35.4 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.384 ug/l

RT: 1.65 min Scan# 125

Delta R.T. 0.02 min

Lab File: VX012870.D

Acq: 08 Oct 2019 04:50

Instrument :

MSVOA_X

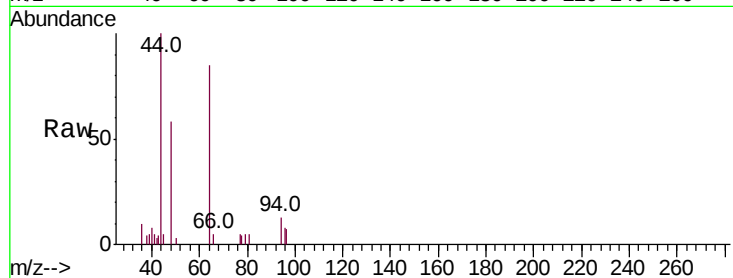
ClientSampled :

Tot Ion: 94 Resp: 349

Ion Ratio Lower Upper

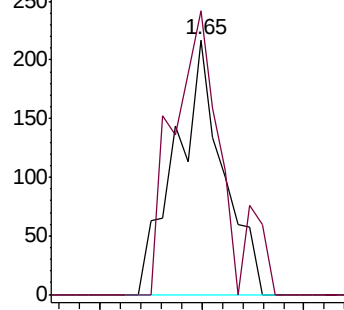
94 100

96 111.5 72.8 109.2#

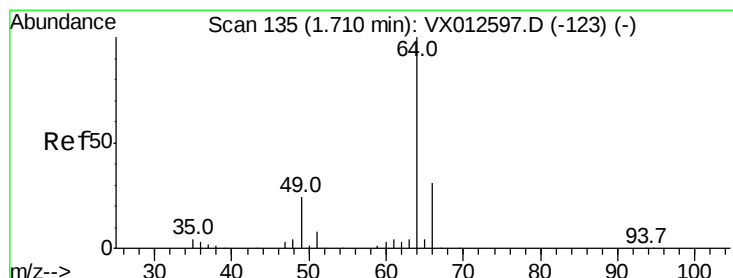
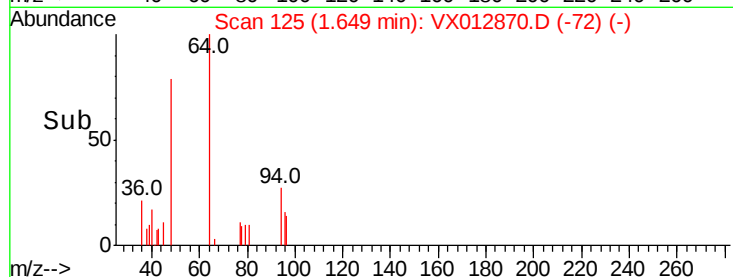


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time-->



#6

Chloroethane

Concen: 1.041 ug/l

RT: 1.62 min Scan# 120

Delta R.T. -0.09 min

Lab File: VX012870.D

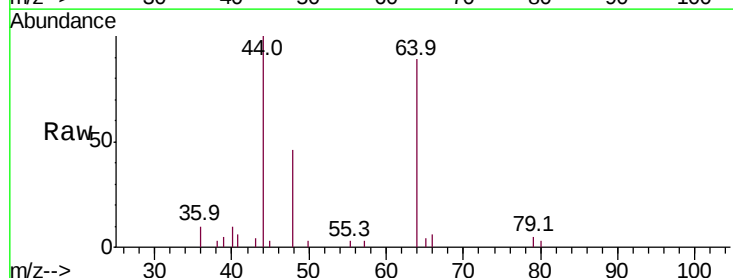
Acq: 08 Oct 2019 04:50

Tgt Ion: 64 Resp: 1623

Ion Ratio Lower Upper

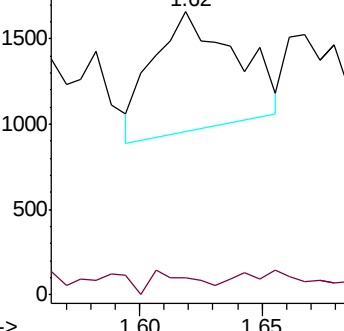
64 100

66 0.0 24.0 36.0#

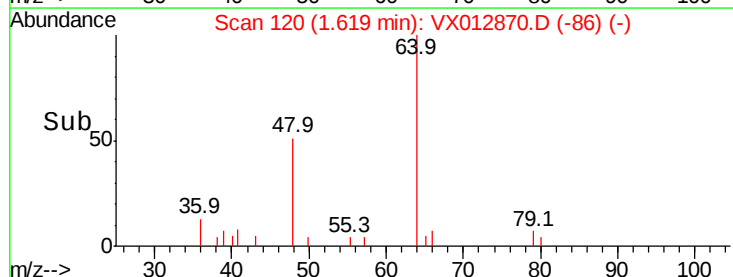


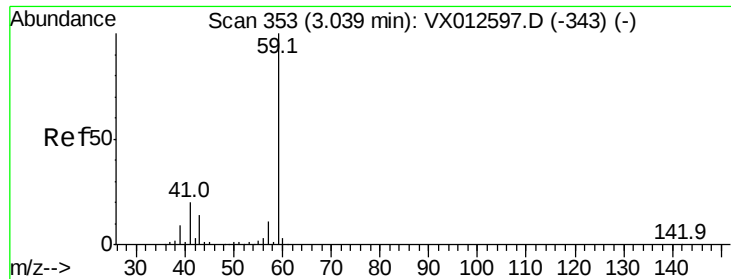
Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



Time-->



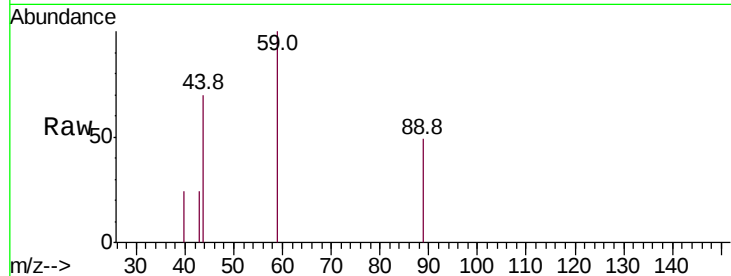


#11

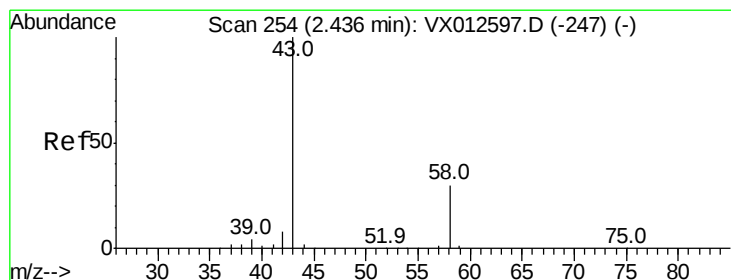
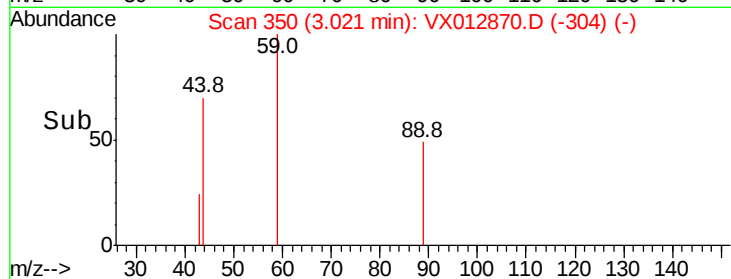
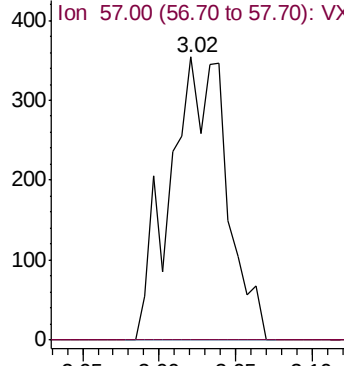
Tert butyl alcohol
 Concen: 1.406 ug/l
 RT: 3.02 min Scan# 350
 Delta R.T. -0.02 min
 Lab File: VX012870.D
 Acq: 08 Oct 2019 04:50

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 59 Resp: 921
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.3 12.5#



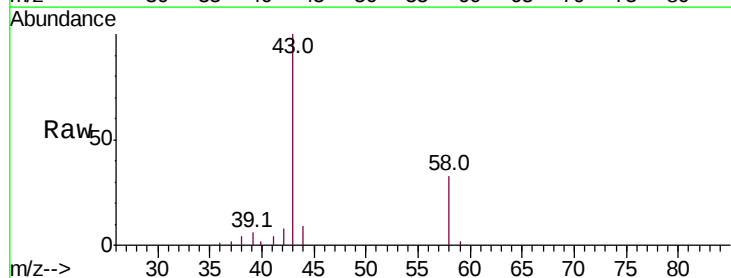
Abundance Ion 59.00 (58.70 to 59.70): VX0
 Ion 57.00 (56.70 to 57.70): VX0



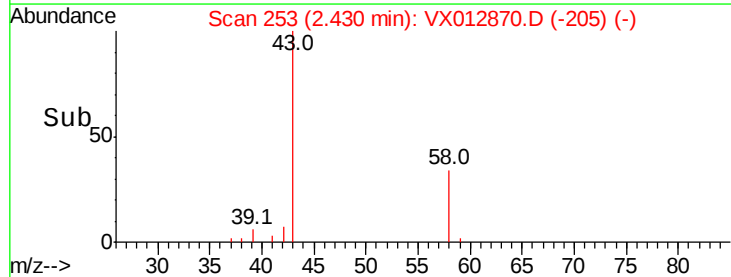
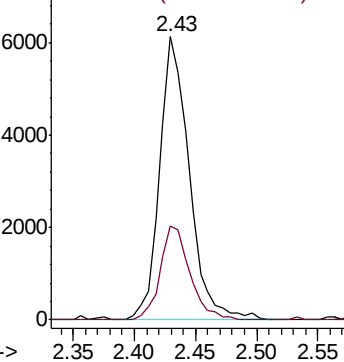
#16

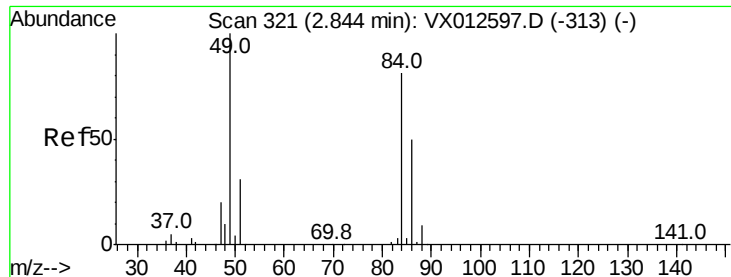
Acetone
 Concen: 7.416 ug/l
 RT: 2.43 min Scan# 253
 Delta R.T. -0.01 min
 Lab File: VX012870.D
 Acq: 08 Oct 2019 04:50

Tgt Ion: 43 Resp: 10300
 Ion Ratio Lower Upper
 43 100
 58 33.4 23.3 34.9



Abundance Ion 43.00 (42.70 to 43.70): VX0
 Ion 58.00 (57.70 to 58.70): VX0

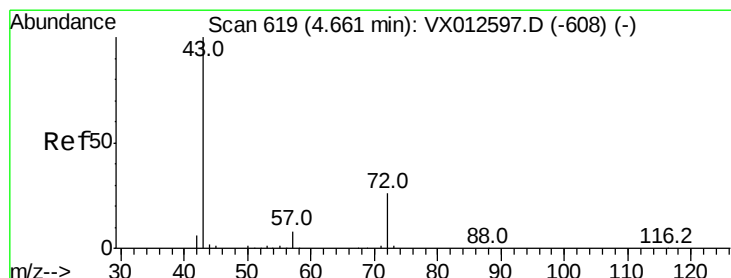
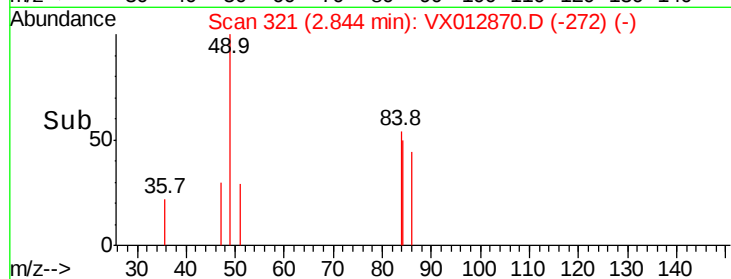
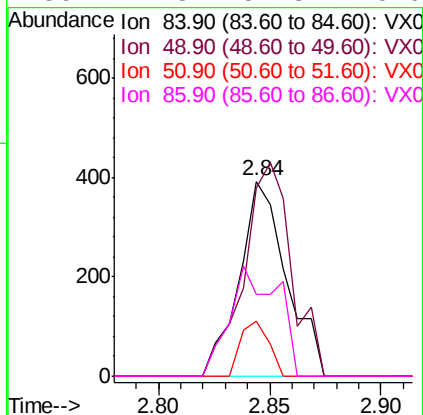
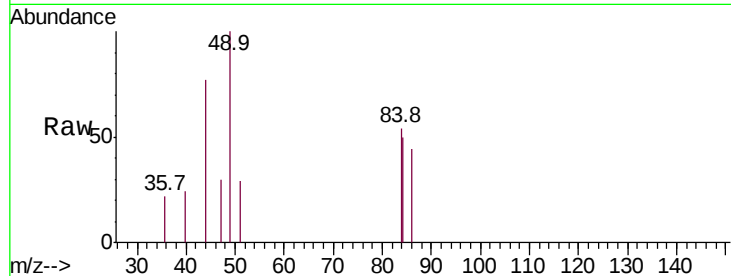




#20
Methvlene Chloride
Concen: 0.248 ug/l
RT: 2.84 min Scan# 321
Delta R.T. 0.00 min
Lab File: VX012870.D
Acq: 08 Oct 2019 04:50

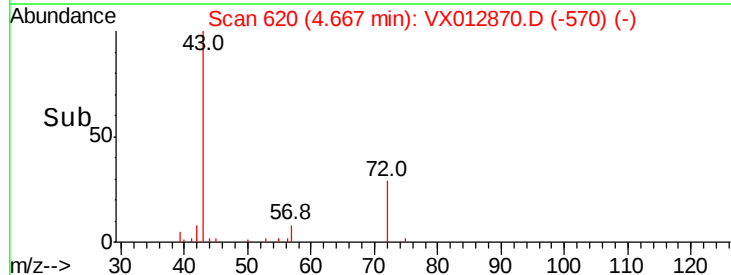
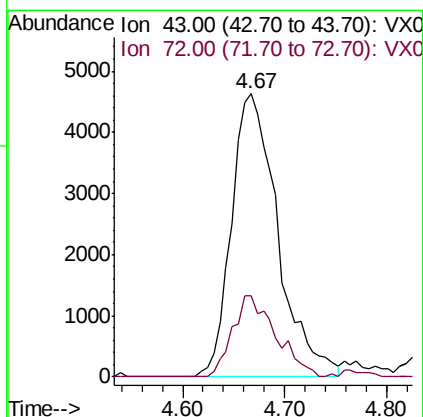
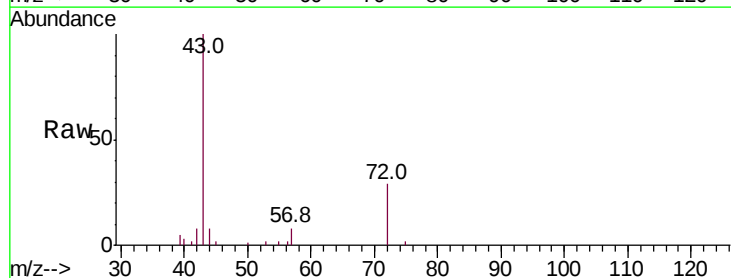
Instrument :
MSVOA_X
ClientSampleId :

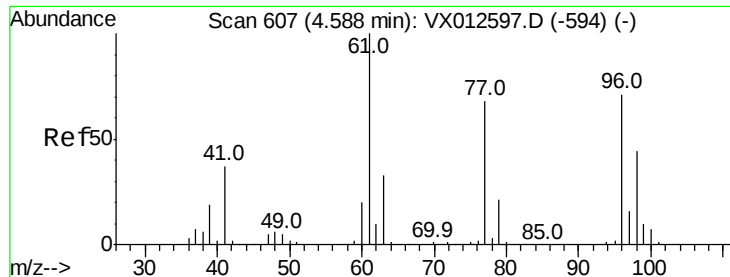
Tot Ion: 84 Resp: 582
Ion Ratio Lower Upper
84 100
49 96.4 106.8 160.2#
51 28.1 32.3 48.5#
86 42.3 51.3 76.9#



#25
2-Butanone
Concen: 7.317 ug/l
RT: 4.67 min Scan# 620
Delta R.T. 0.01 min
Lab File: VX012870.D
Acq: 08 Oct 2019 04:50

Tgt Ion: 43 Resp: 14570
Ion Ratio Lower Upper
43 100
72 28.8 19.2 28.8#



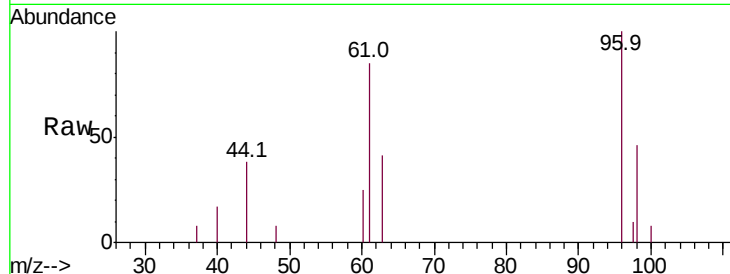


#27

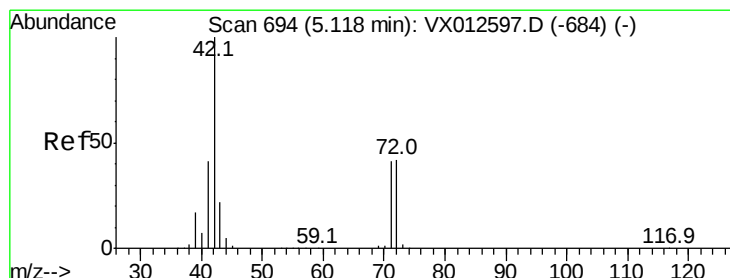
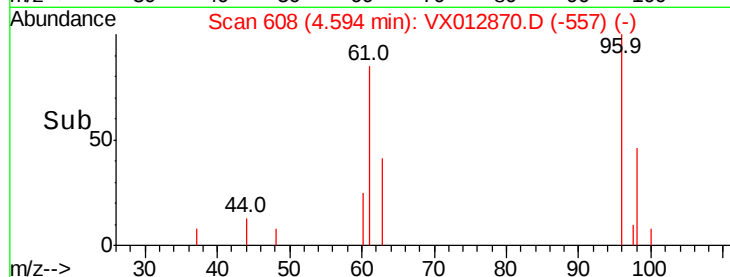
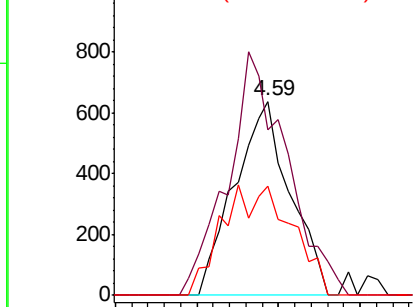
cis-1,2-Dichloroethene
 Concen: 0.609 ug/l
 RT: 4.59 min Scan# 608
 Delta R.T. 0.01 min
 Lab File: VX012870.D
 Acq: 08 Oct 2019 04:50

Instrument :
 MSVOA_X
 ClientSampled :

Tot Ion: 96 Resp: 1516
 Ion Ratio Lower Upper
 96 100
 61 132.7 0.0 319.4
 98 70.6 0.0 130.6



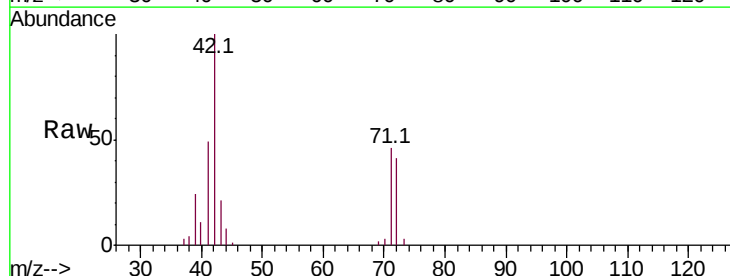
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



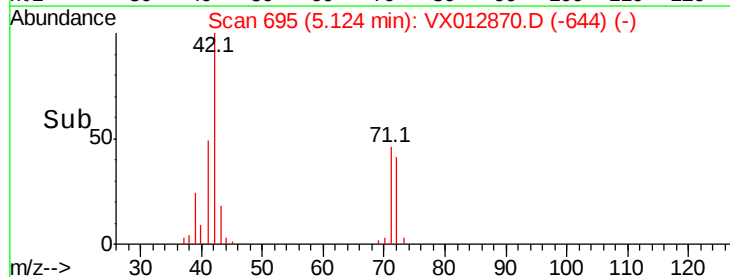
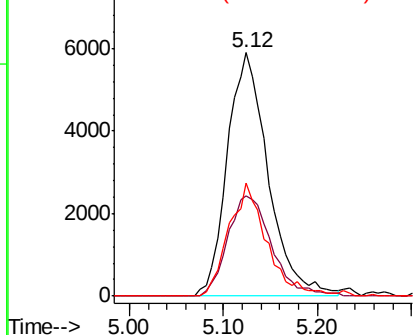
#29

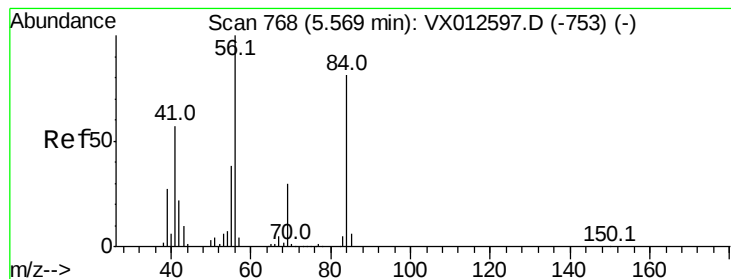
Tetrahydrofuran
 Concen: 14.677 ug/l
 RT: 5.12 min Scan# 695
 Delta R.T. 0.01 min
 Lab File: VX012870.D
 Acq: 08 Oct 2019 04:50

Tgt Ion: 42 Resp: 17814
 Ion Ratio Lower Upper
 42 100
 72 44.4 34.0 51.0
 71 42.9 31.5 47.3



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





#31

Cyclohexane

Concen: 1.027 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.08 min

Lab File: VX012870.D

Acq: 08 Oct 2019 04:50

Instrument :
MSVOA_X
ClientSampleId :

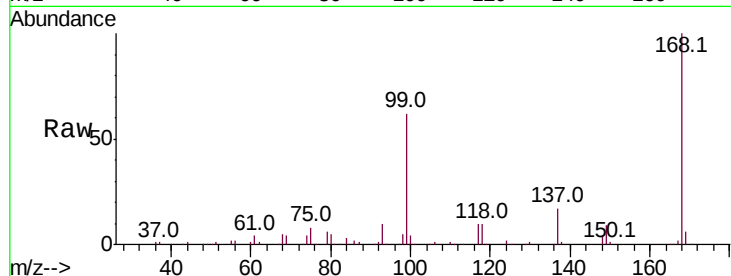
Tot Ion: 56 Resp: 3748

Ion Ratio Lower Upper

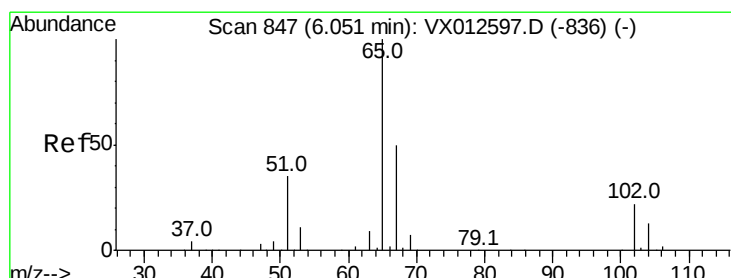
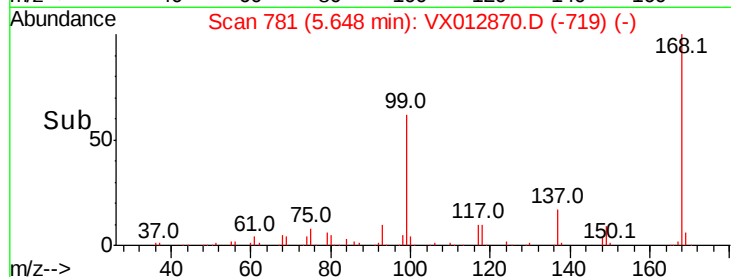
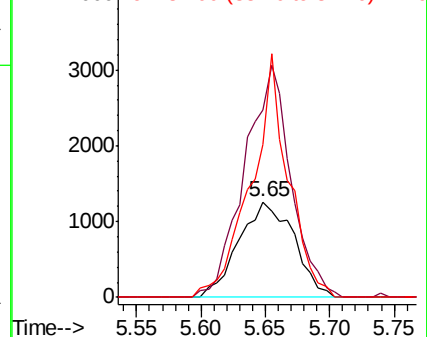
56 100

69 195.5 25.0 37.6#

84 159.8 66.4 99.6#



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 44.683 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX012870.D

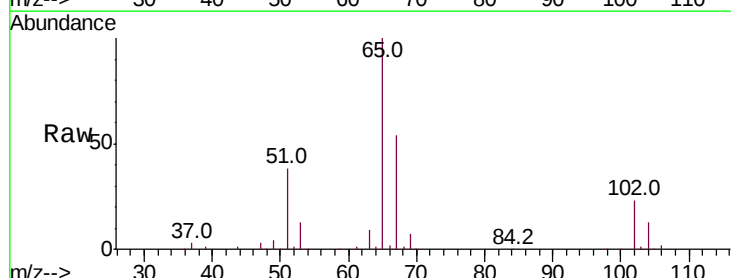
Acq: 08 Oct 2019 04:50

Tgt Ion: 65 Resp: 117156

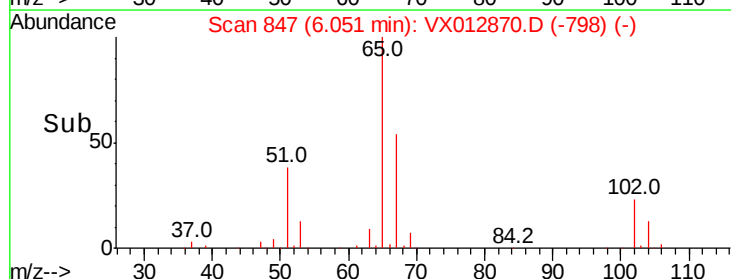
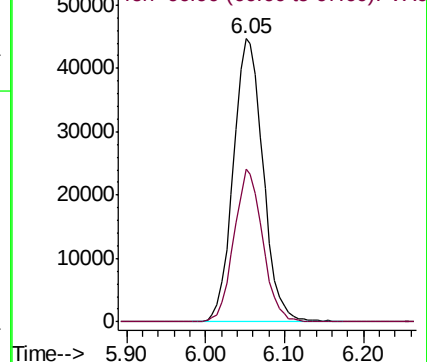
Ion Ratio Lower Upper

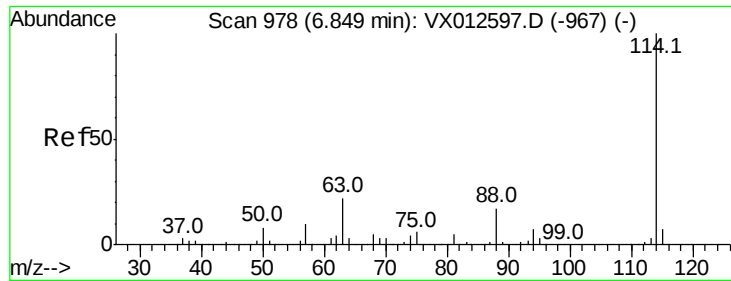
65 100

67 51.9 0.0 101.2



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

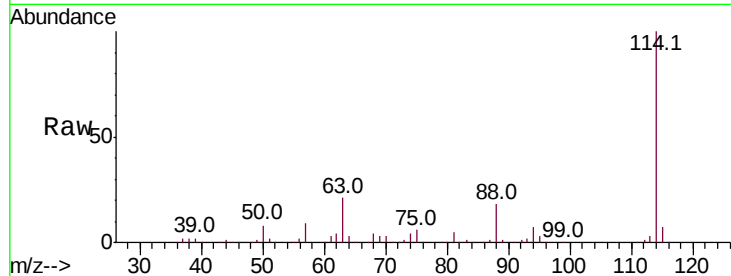




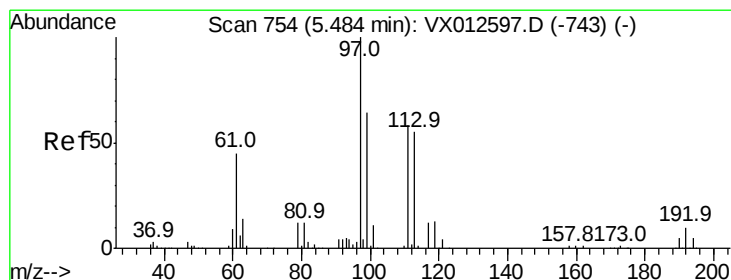
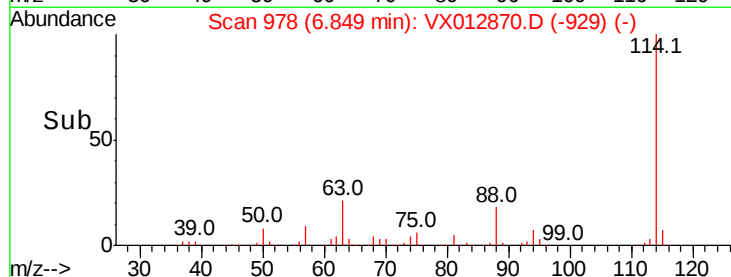
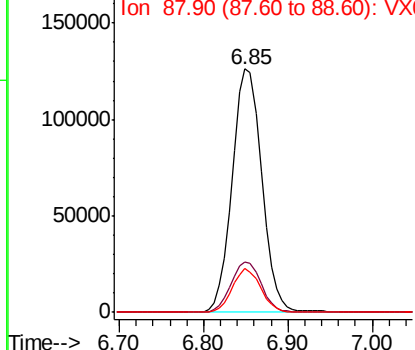
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX012870.D
 Acq: 08 Oct 2019 04:50

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	20.7	0.0	43.2
88	17.9	0.0	33.2

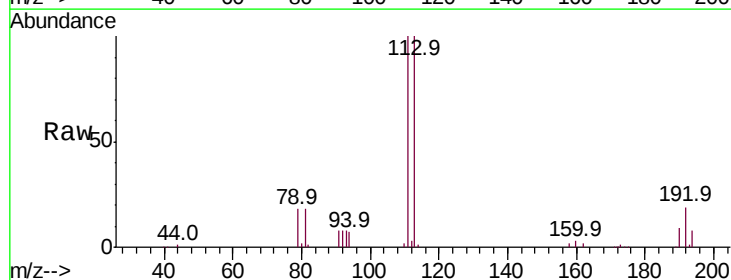


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

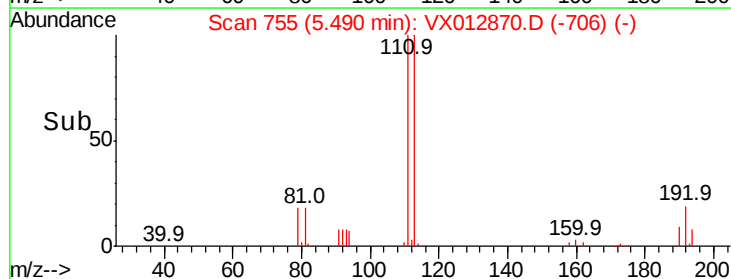
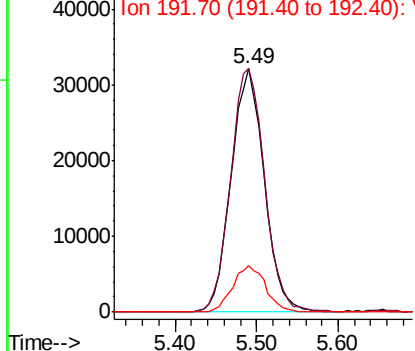


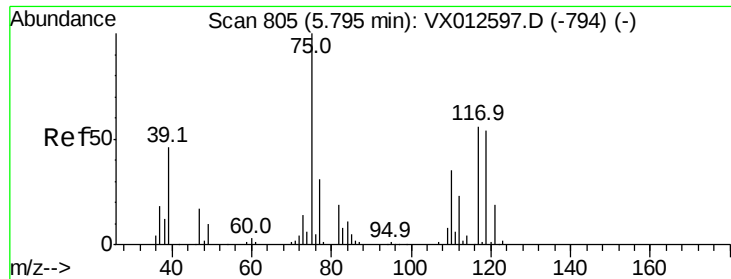
#35
 Dibromofluoromethane
 Concen: 50.303 ug/l
 RT: 5.49 min Scan# 755
 Delta R.T. 0.00 min
 Lab File: VX012870.D
 Acq: 08 Oct 2019 04:50

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.4	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

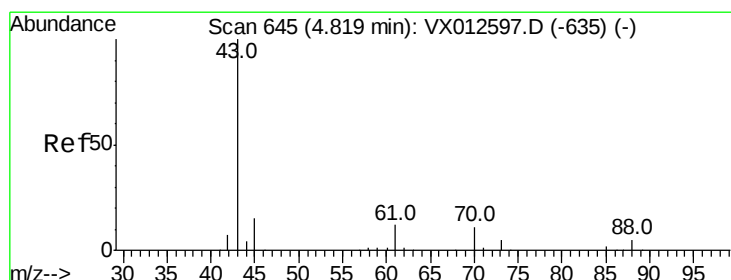
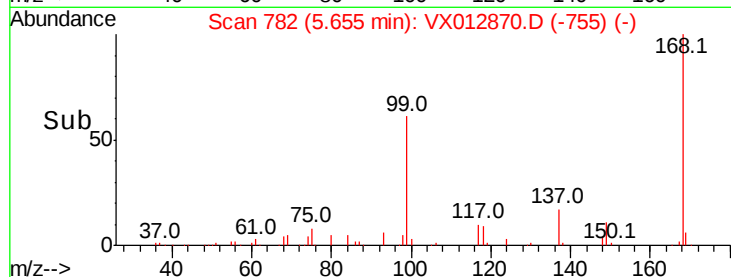
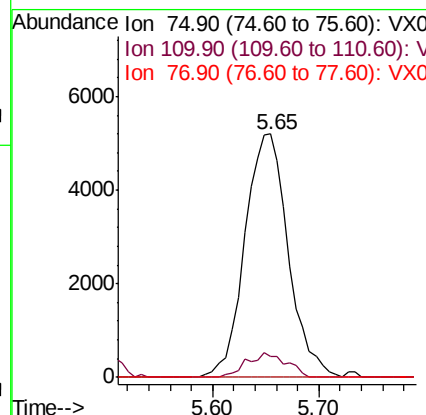
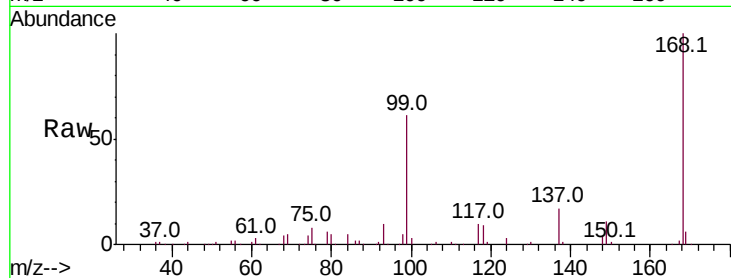




#36
 1,1-Dichloropropene
 Concen: 5.099 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.13 min
 Lab File: VX012870.D
 Acq: 08 Oct 2019 04:50

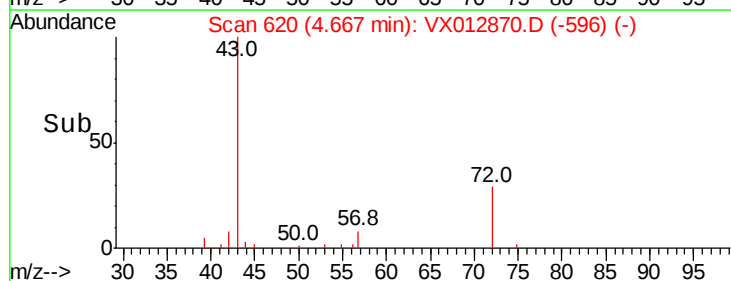
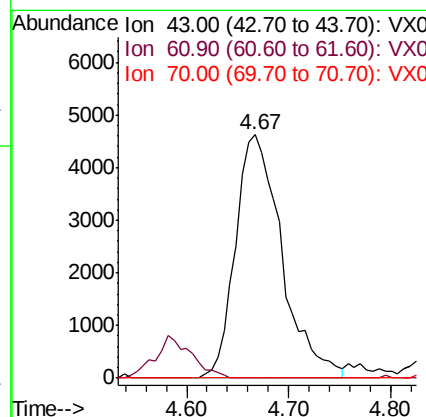
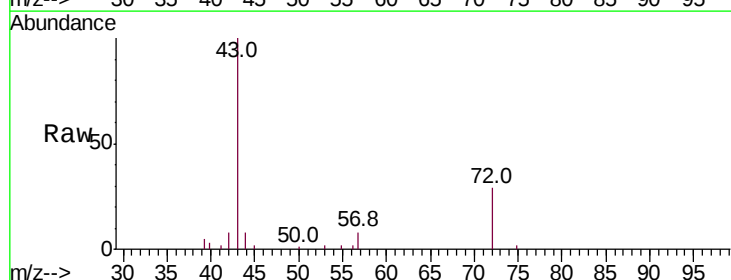
Instrument :
 MSVOA_X
 ClientSampleId :

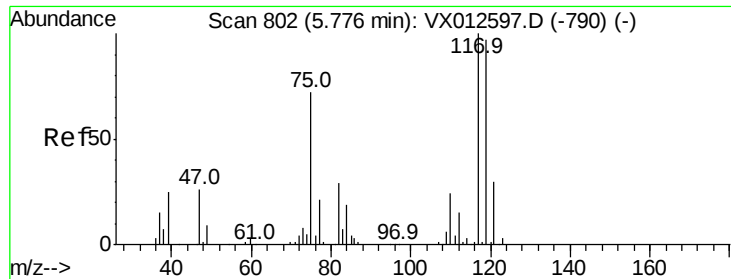
Tot Ion: 75 Resp: 14796
 Ion Ratio Lower Upper
 75 100
 110 9.3 16.7 50.0#
 77 0.0 24.2 36.2#



#37
 Ethyl Acetate
 Concen: 4.295 ug/l
 RT: 4.67 min Scan# 620
 Delta R.T. -0.15 min
 Lab File: VX012870.D
 Acq: 08 Oct 2019 04:50

Tgt Ion: 43 Resp: 14570
 Ion Ratio Lower Upper
 43 100
 61 0.0 10.2 15.4#
 70 0.0 8.7 13.1#





#38

Carbon Tetrachloride

Concen: 6.354 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX012870.D

Acq: 08 Oct 2019 04:50

Instrument :

MSVOA_X

ClientSampleId :

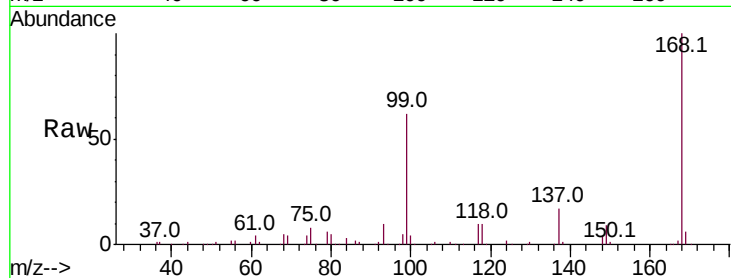
Tot Ion:117 Resp: 18728

Ion Ratio Lower Upper

117 100

119 4.0 75.7 113.5#

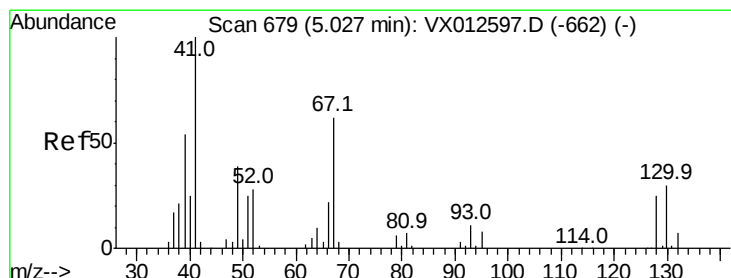
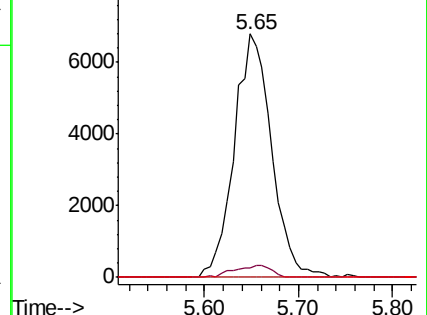
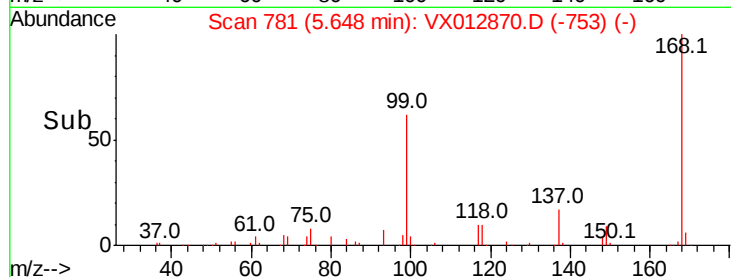
121 0.0 24.2 36.4#



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



#41

Methacrylonitrile

Concen: 5.090 ug/l

RT: 5.12 min Scan# 694

Delta R.T. 0.09 min

Lab File: VX012870.D

Acq: 08 Oct 2019 04:50

Tgt Ion: 41 Resp: 9689

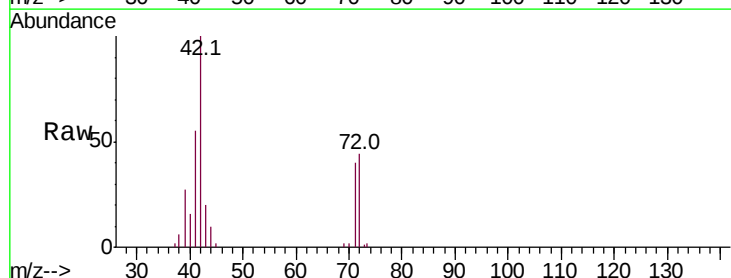
Ion Ratio Lower Upper

41 100

39 47.9 46.0 69.0

67 0.0 52.2 78.2#

52 0.0 22.7 34.1#

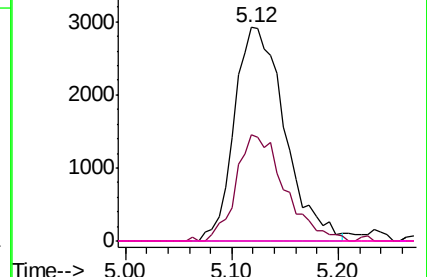
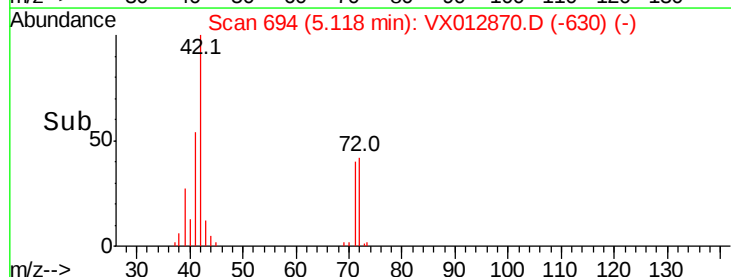


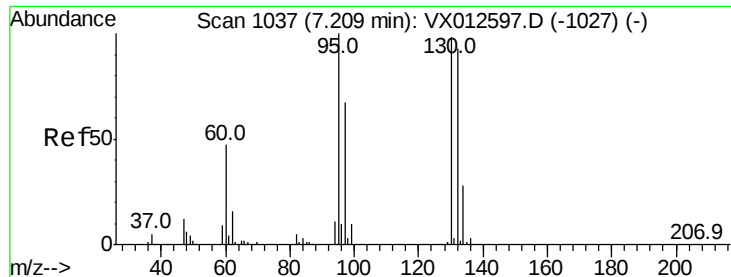
Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





#44

Trichloroethene

Concen: 6.304 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX012870.D

Acq: 08 Oct 2019 04:50

Instrument :

MSVOA_X

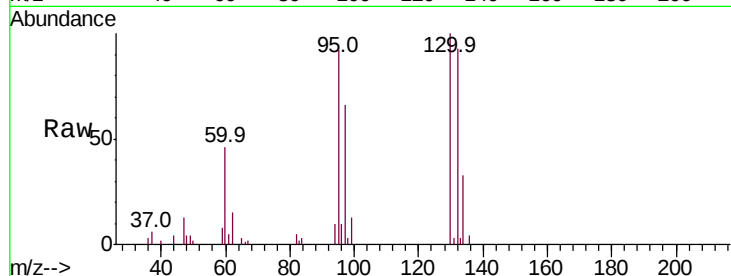
ClientSampleId :

Tot Ion:130 Resp: 13759

Ion Ratio Lower Upper

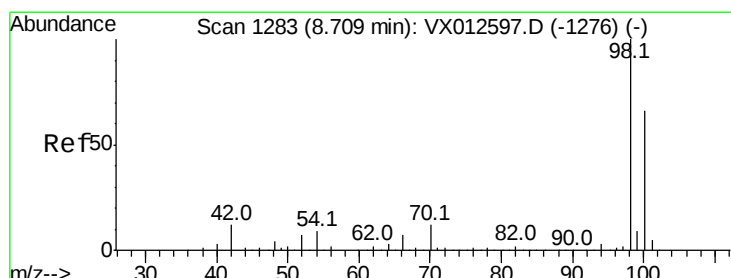
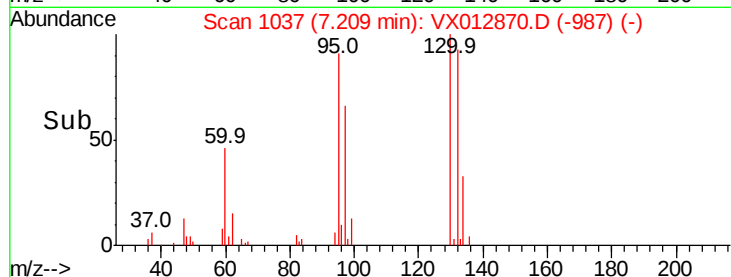
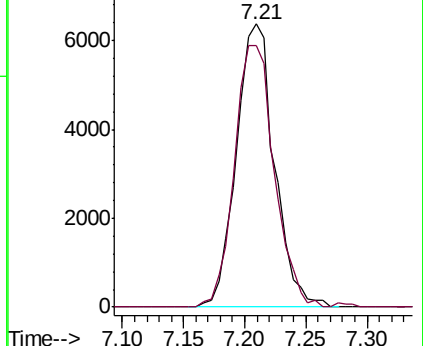
130 100

95 92.5 0.0 193.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#50

Toluene-d8

Concen: 51.983 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX012870.D

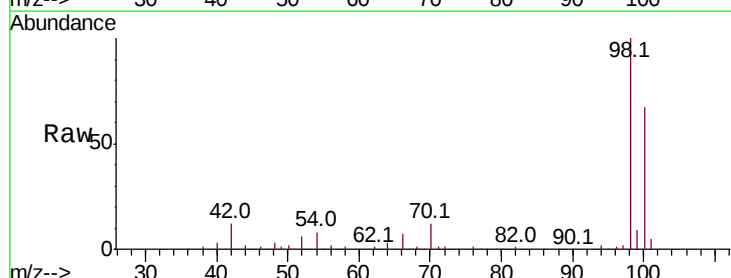
Acq: 08 Oct 2019 04:50

Tgt Ion: 98 Resp: 358912

Ion Ratio Lower Upper

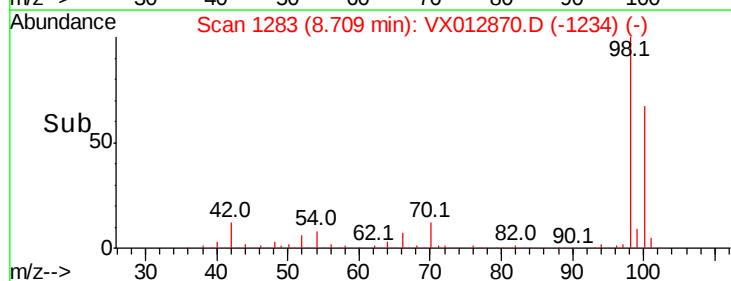
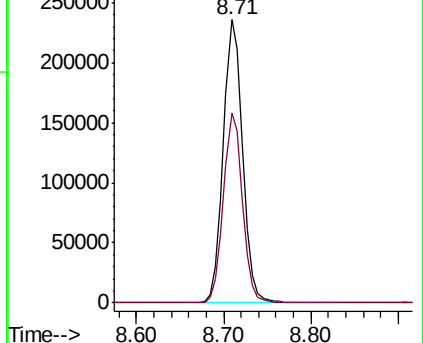
98 100

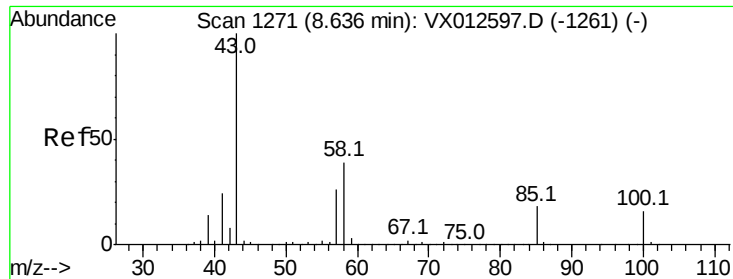
100 66.3 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 0.563 ug/l

RT: 8.64 min Scan# 1272

Delta R.T. 0.01 min

Lab File: VX012870.D

Acq: 08 Oct 2019 04:50

Instrument :

MSVOA_X

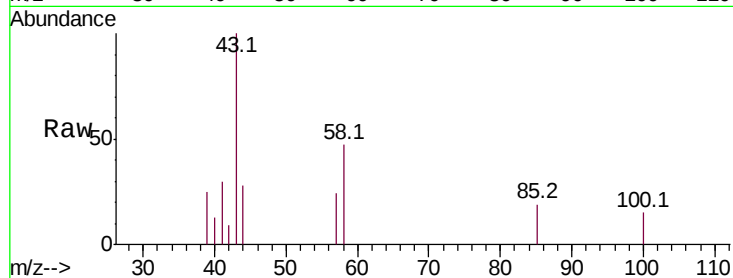
ClientSampled :

Tot Ion: 43 Resp: 1971

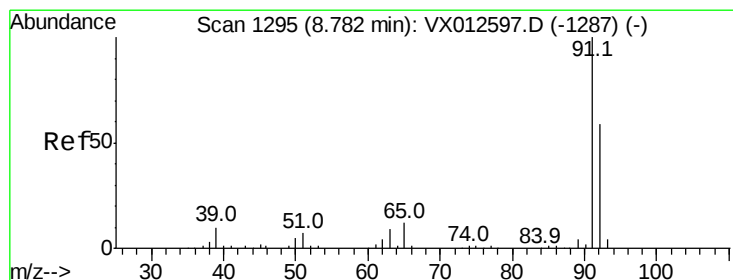
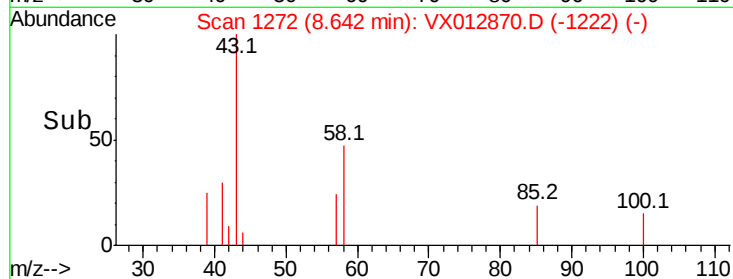
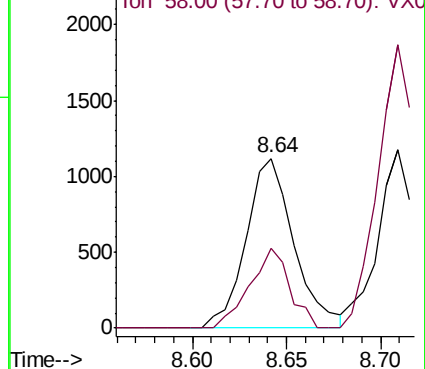
Ion Ratio Lower Upper

43 100

58 39.3 29.8 44.6



Abundance Ion 43.00 (42.70 to 43.70): VX0



#52

Toluene

Concen: 0.202 ug/l

RT: 8.78 min Scan# 1295

Delta R.T. 0.00 min

Lab File: VX012870.D

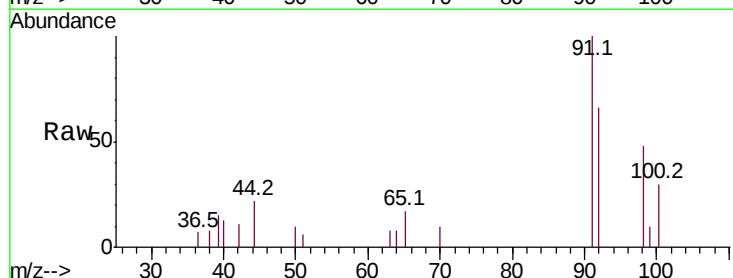
Acq: 08 Oct 2019 04:50

Tgt Ion: 92 Resp: 1084

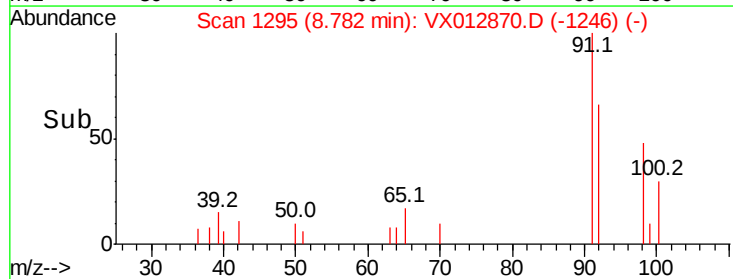
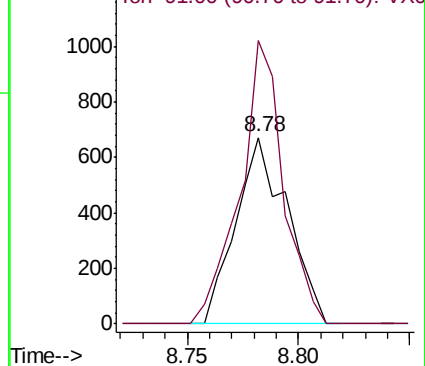
Ion Ratio Lower Upper

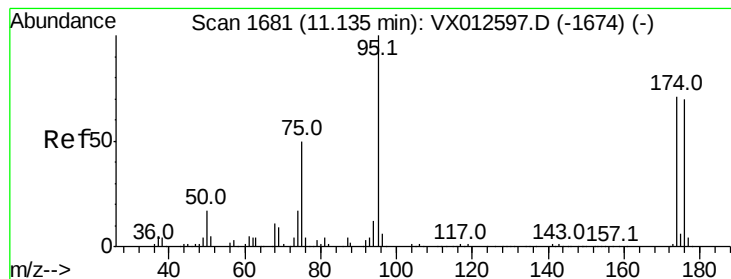
92 100

91 127.4 135.4 203.0#



Abundance Ion 92.00 (91.70 to 92.70): VX0





#62

4-Bromofluorobenzene

Concen: 45.031 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX012870.D

Acq: 08 Oct 2019 04:50

Instrument :

MSVOA_X

ClientSampleId :

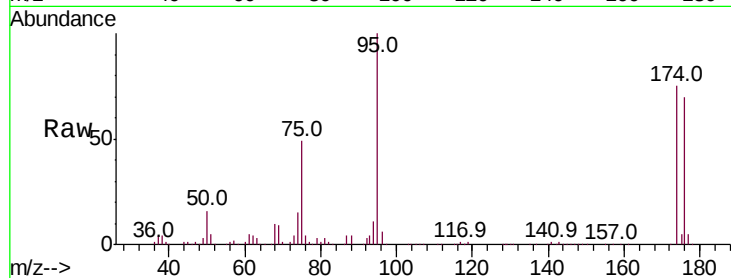
Tot Ion: 95 Resp: 122252

Ion Ratio Lower Upper

95 100

174 72.2 0.0 140.0

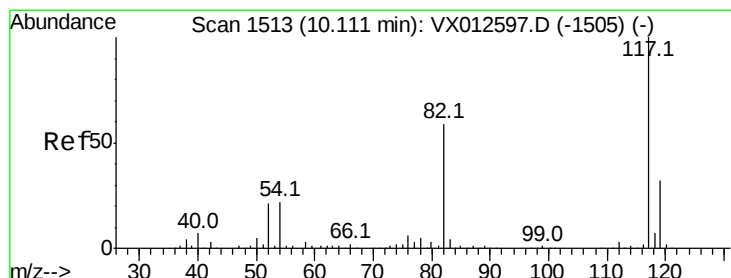
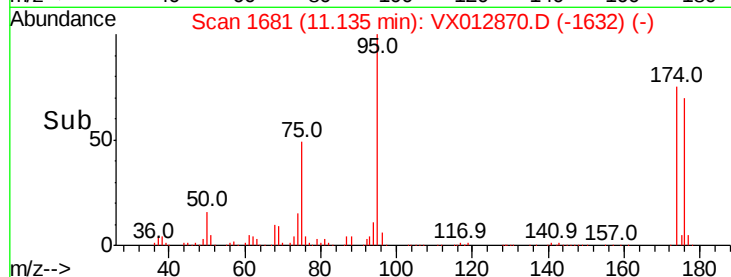
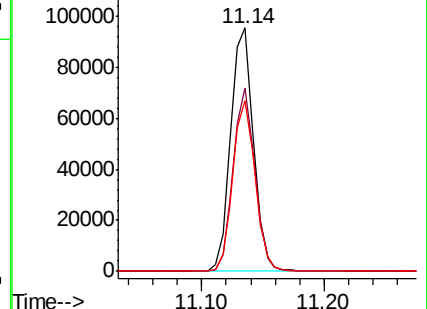
176 68.9 0.0 135.4



Abundance Ion 94.90 (94.60 to 95.60): VX012597.D (-1674) (-)

Ion 173.80 (173.50 to 174.50): VX012597.D (-1674) (-)

Ion 175.80 (175.50 to 176.50): VX012597.D (-1674) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX012870.D

Acq: 08 Oct 2019 04:50

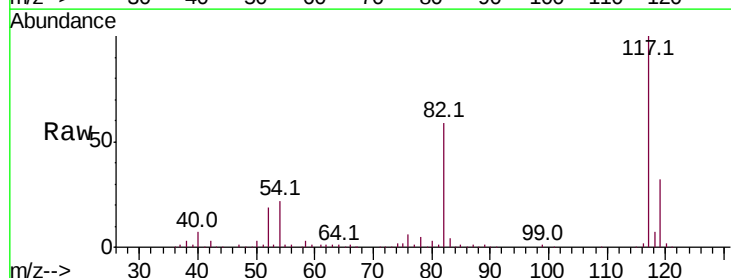
Tgt Ion: 117 Resp: 252805

Ion Ratio Lower Upper

117 100

82 59.5 45.9 68.9

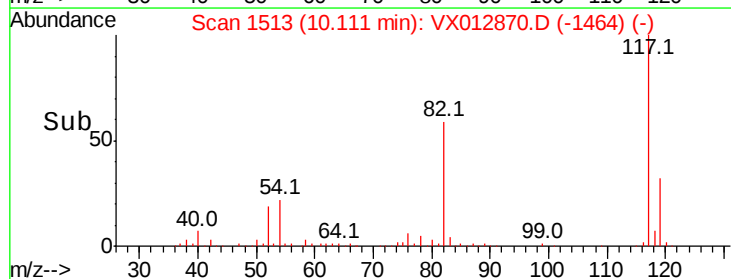
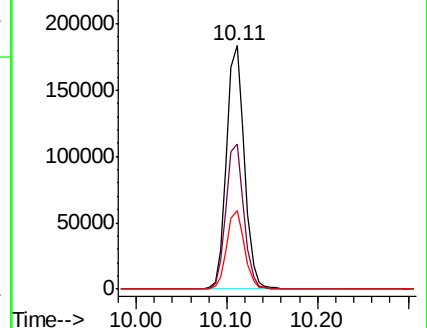
119 32.2 25.3 37.9

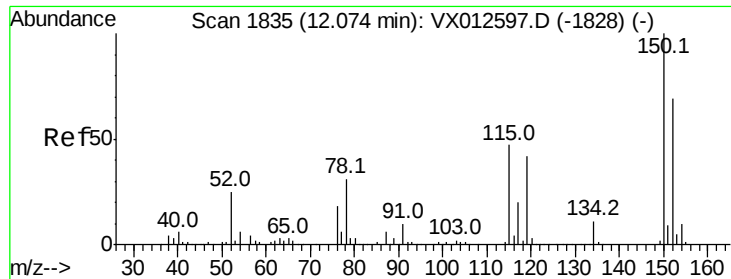


Abundance Ion 116.90 (116.60 to 117.60): VX012597.D (-1505) (-)

Ion 82.00 (81.70 to 82.70): VX012597.D (-1505) (-)

Ion 118.90 (118.60 to 119.60): VX012597.D (-1505) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX012870.D

Acq: 08 Oct 2019 04:50

Instrument :

MSVOA_X

ClientSampleId :

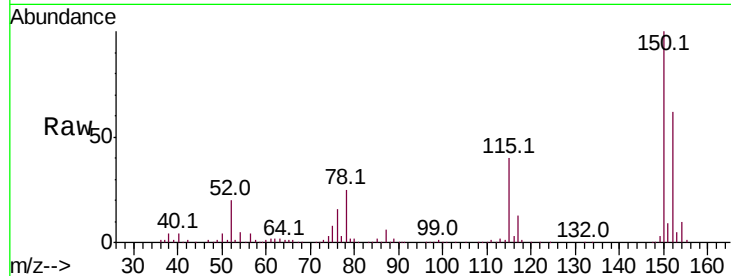
Tot Ion:152 Resp: 100828

Ion Ratio Lower Upper

152 100

115 64.2 44.1 132.3

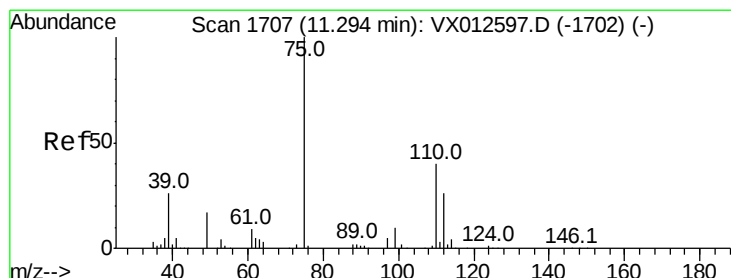
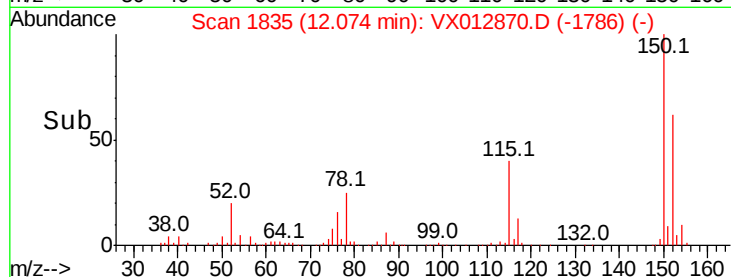
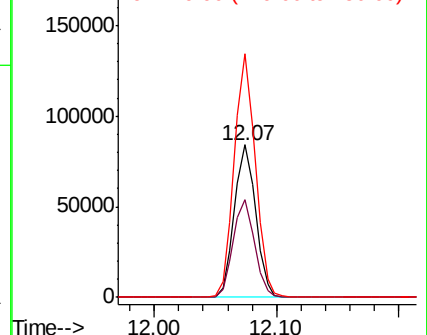
150 157.8 0.0 343.8



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: 22.814 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX012870.D

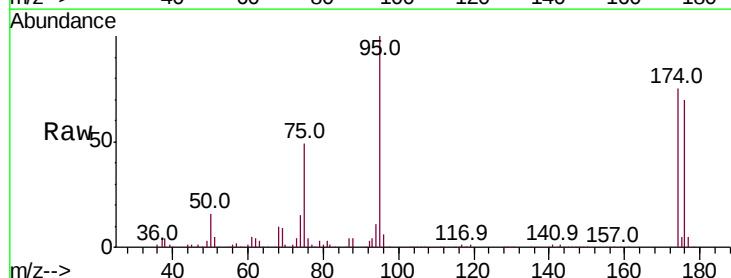
Acq: 08 Oct 2019 04:50

Tgt Ion: 75 Resp: 60847

Ion Ratio Lower Upper

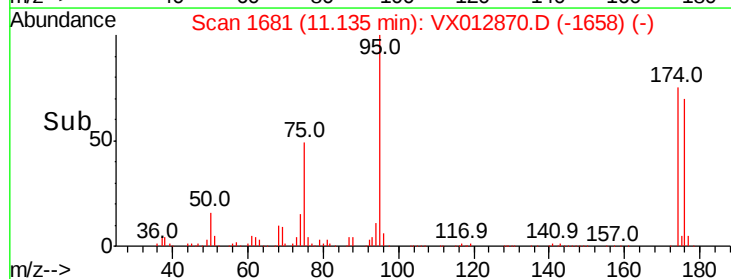
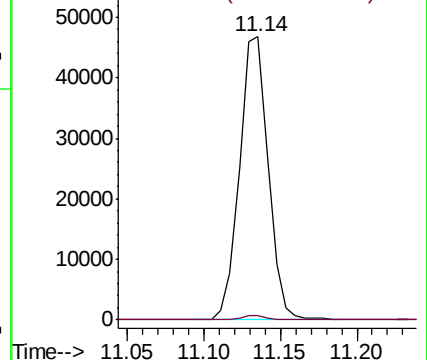
75 100

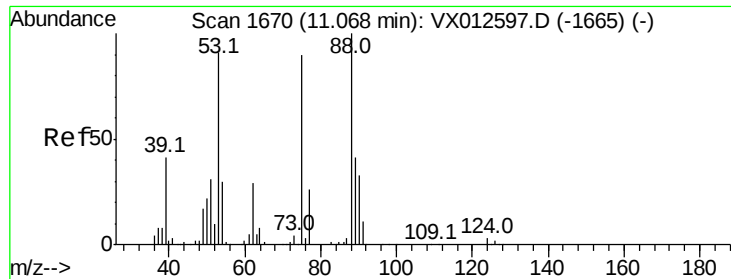
77 1.2 19.7 59.0#



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: 65.378 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX012870.D

Acq: 08 Oct 2019 04:50

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 75 Resp: 60847

Ion Ratio Lower Upper

75 100

53 0.0 83.6 125.4#

89 0.0 36.3 54.5#

