

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX110518\
 Data File : VX005789.D
 Acq On : 05 Nov 2018 20:04
 Operator : JC/MD
 Sample : J5816-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Nov 06 00:47:56 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X103118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 31 18:23:06 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	146222	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	238172	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	212746	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	93252	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	109649	51.29	ug/l	0.00
Spiked Amount			Recovery	=	102.58%	
35) Dibromofluoromethane	5.50	113	83098	50.39	ug/l	0.00
Spiked Amount			Recovery	=	100.78%	
50) Toluene-d8	8.71	98	295596	51.11	ug/l	0.00
Spiked Amount			Recovery	=	102.22%	
62) 4-Bromofluorobenzene	11.14	95	94372	44.21	ug/l	0.00
Spiked Amount			Recovery	=	88.42%	

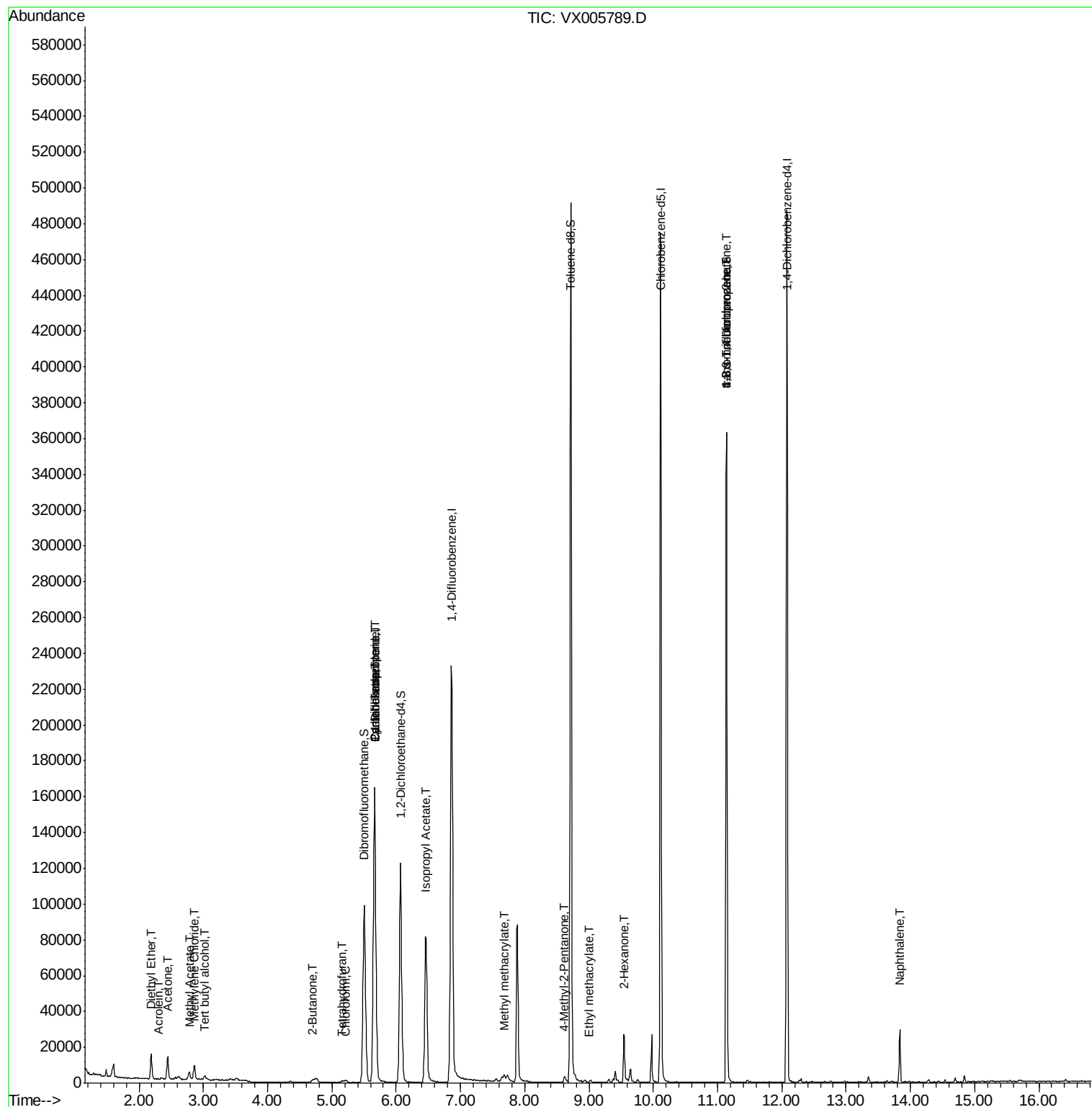
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.74	64	66	Below Cal	#	42
8) Diethyl Ether	2.19	74	4271	3.571	ug/l	97
11) Tert butyl alcohol	3.02	59	1784	3.073	ug/l #	75
13) Acrolein	2.29	56	85	12.377	ug/l #	14
16) Acetone	2.45	43	13211	2.804	ug/l	94
18) Methyl Acetate	2.78	43	5397	1.759	ug/l	96
20) Methylene Chloride	2.86	84	3429	1.860	ug/l	85
25) 2-Butanone	4.70	43	3536	1.961	ug/l	100
29) Tetrahydrofuran	5.16	42	461	0.419	ug/l #	65
30) Chloroform	5.21	83	1356	0.406	ug/l #	82
31) Cyclohexane	5.67	56	3373	1.181	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	12459	4.910	ug/l #	49
38) Carbon Tetrachloride	5.67	117	13676	5.965	ug/l #	16
43) Isopropyl Acetate	6.46	43	108949	23.187	ug/l	98
48) Methyl methacrylate	7.68	41	4180	1.838	ug/l #	25
51) 4-Methyl-2-Pentanone	8.62	43	1359	0.424	ug/l #	38
56) Ethyl methacrylate	9.00	69	58	2.489	ug/l #	22
59) 2-Hexanone	9.54	43	3093	1.186	ug/l	63
76) 1,2,3-Trichloropropane	11.13	75	48680	20.960	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.13	75	48680	67.719	ug/l #	9
95) Naphthalene	13.83	128	17073	2.626	ug/l	99

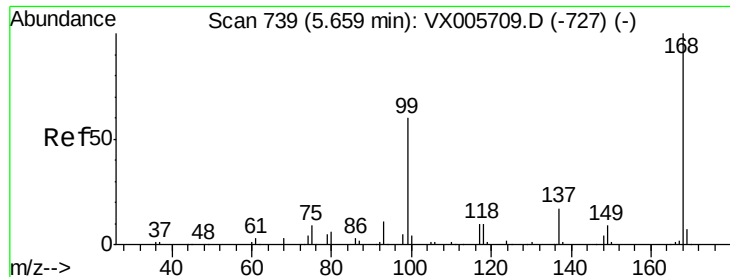
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX005789.D

Acq: 05 Nov 2018 20:04

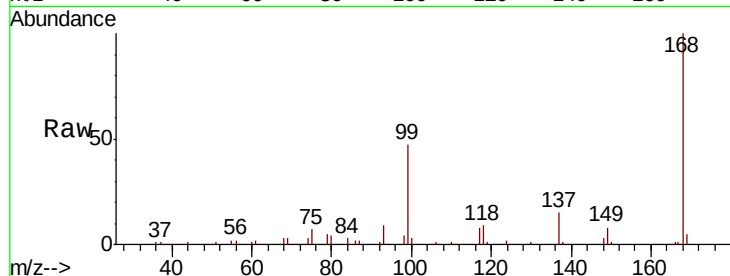
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 146222

Ion Ratio Lower Upper

168 100

99 47.1 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

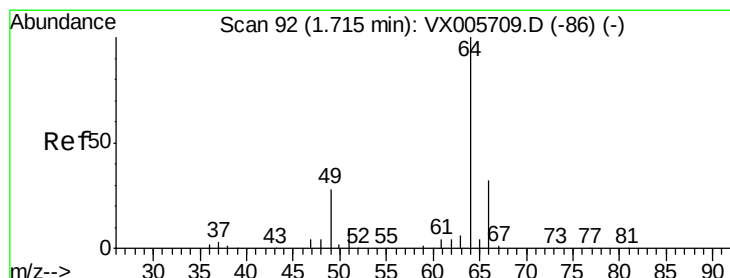
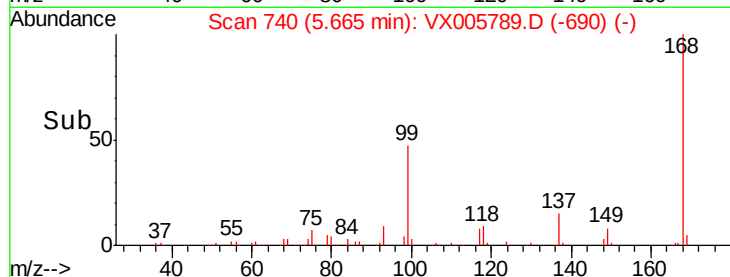
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#6

Chloroethane

Concen: Below Cal

RT: 1.74 min Scan# 96

Delta R.T. 0.03 min

Lab File: VX005789.D

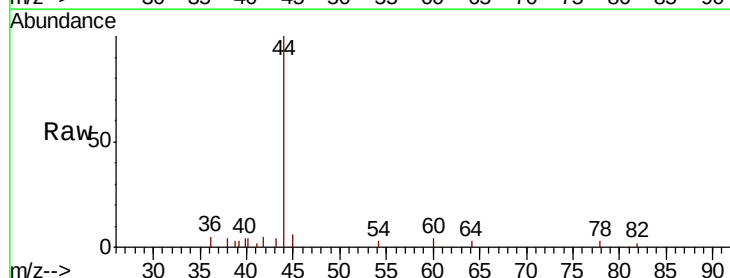
Acq: 05 Nov 2018 20:04

Tgt Ion: 64 Resp: 66

Ion Ratio Lower Upper

64 100

66 0.0 25.8 38.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

100

80

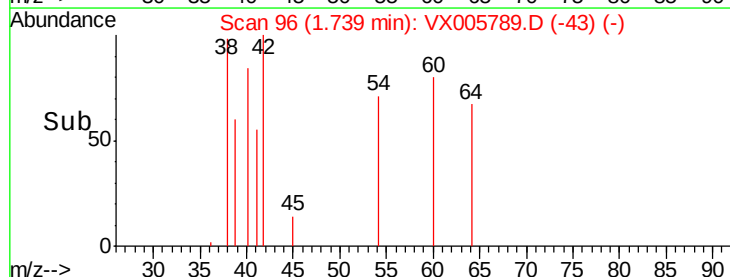
60

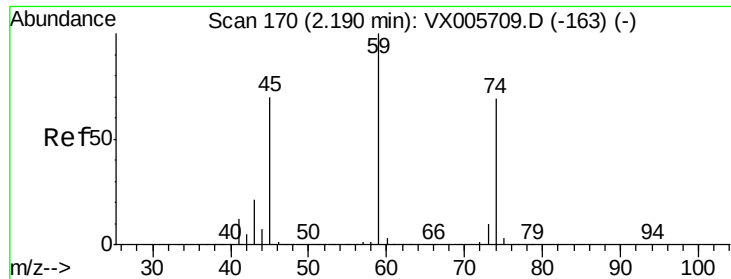
40

20

0

Time--> 1.72 1.74 1.76





#8

Diethyl Ether

Concen: 3.571 ug/l

RT: 2.19 min Scan# 170

Delta R.T. 0.00 min

Lab File: VX005789.D

Acq: 05 Nov 2018 20:04

Instrument :

MSVOA_X

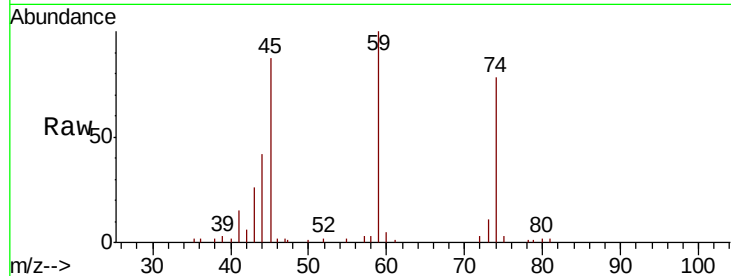
ClientSampleId :

Tot Ion: 74 Resp: 4271

Ion Ratio Lower Upper

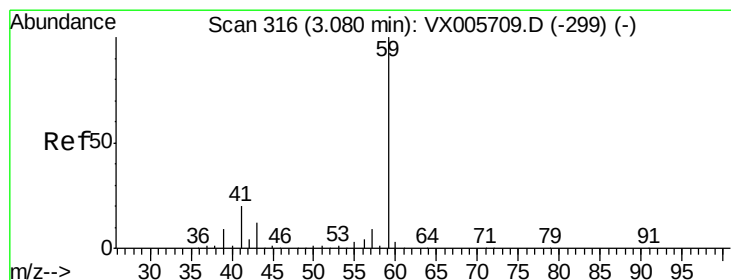
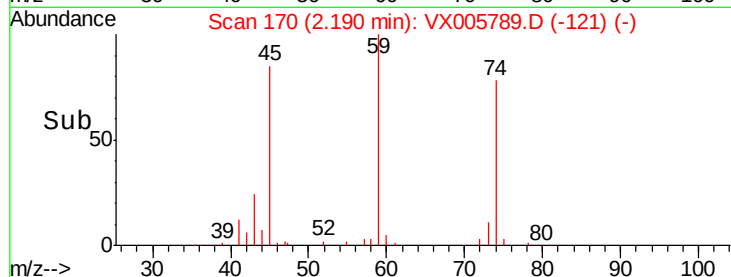
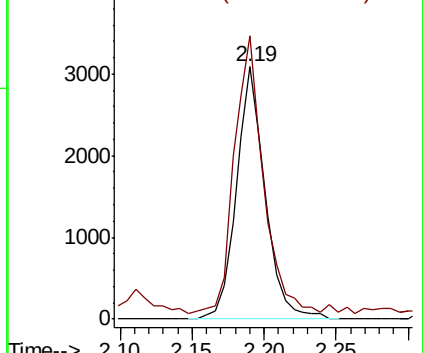
74 100

45 110.8 54.1 162.3



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



#11

Tert butyl alcohol

Concen: 3.073 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.06 min

Lab File: VX005789.D

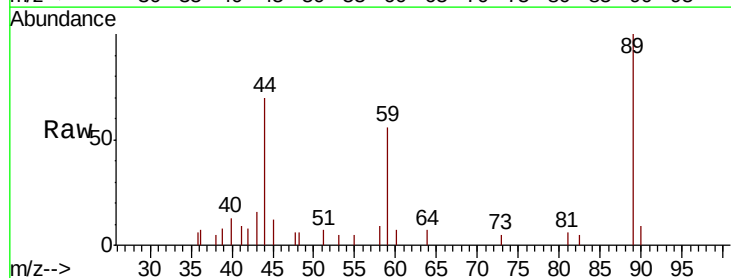
Acq: 05 Nov 2018 20:04

Tgt Ion: 59 Resp: 1784

Ion Ratio Lower Upper

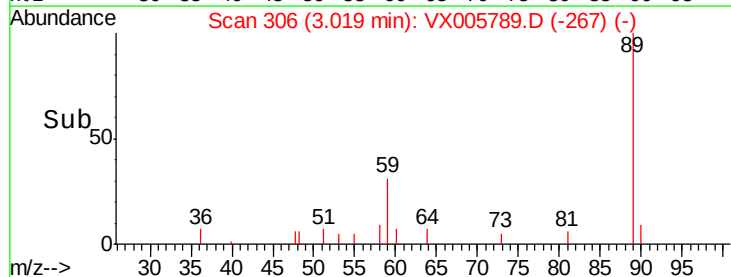
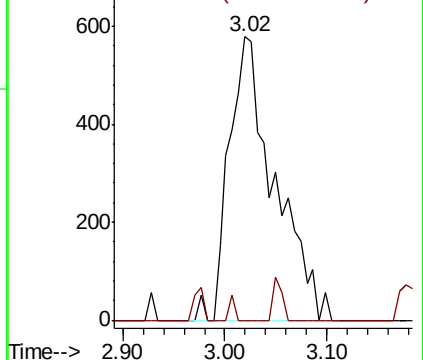
59 100

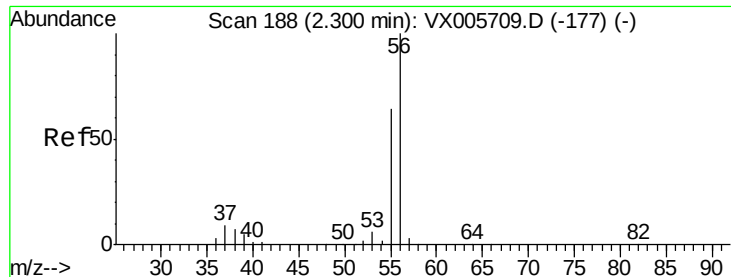
57 1.1 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 12.377 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.01 min

Lab File: VX005789.D

Acq: 05 Nov 2018 20:04

Instrument :

MSVOA_X

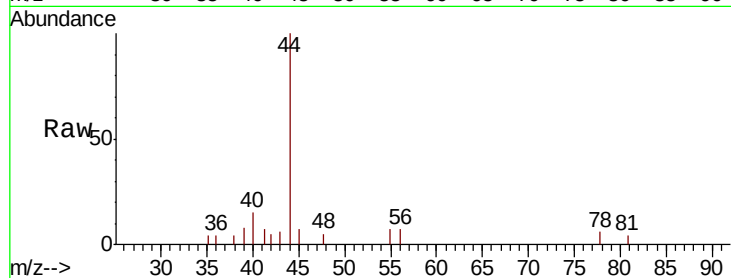
ClientSampleId :

Tot Ion: 56 Resp: 85

Ion Ratio Lower Upper

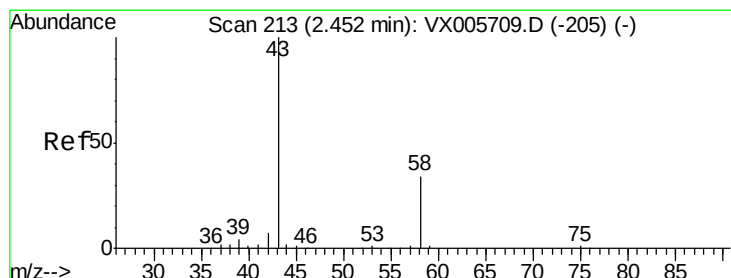
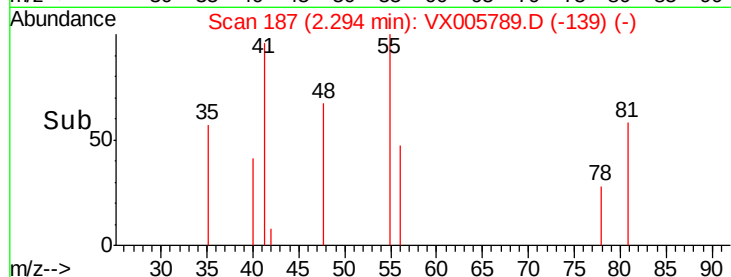
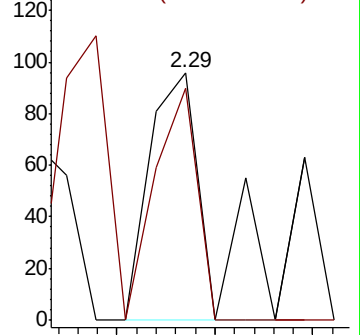
56 100

55 0.0 57.3 85.9#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 2.804 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.01 min

Lab File: VX005789.D

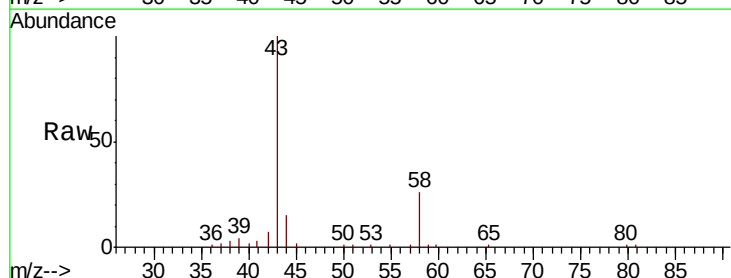
Acq: 05 Nov 2018 20:04

Tgt Ion: 43 Resp: 13211

Ion Ratio Lower Upper

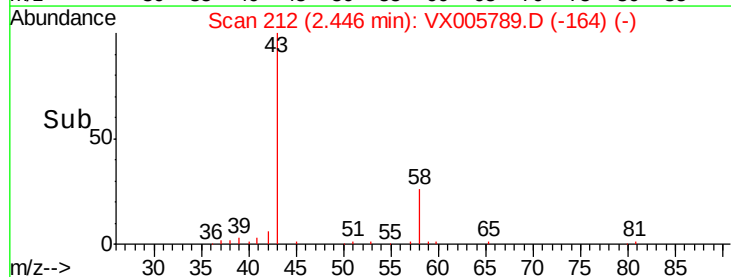
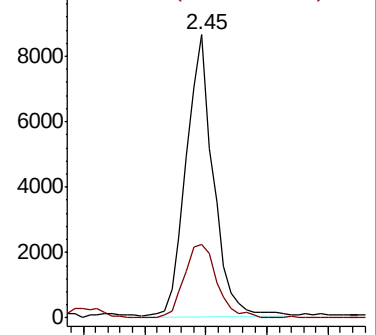
43 100

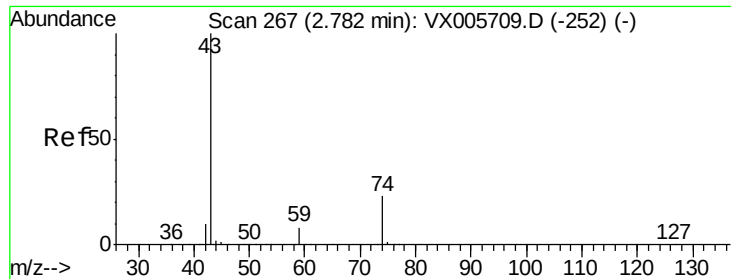
58 26.4 23.8 35.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

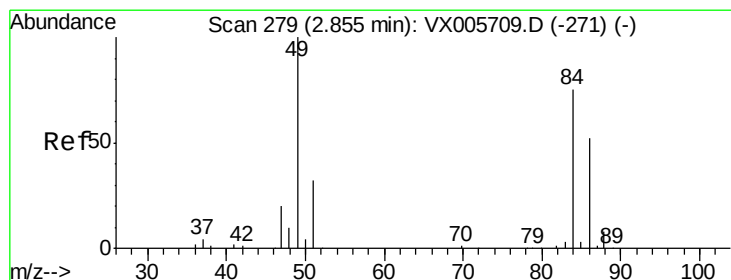
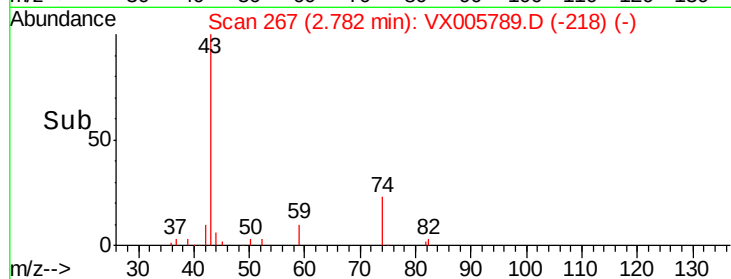
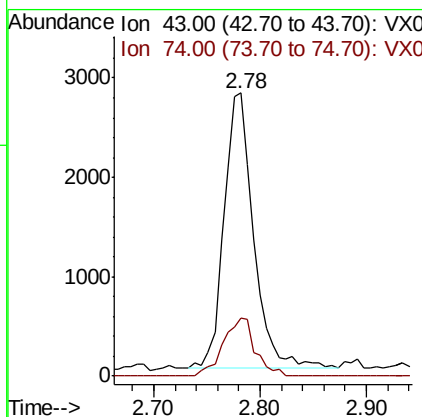
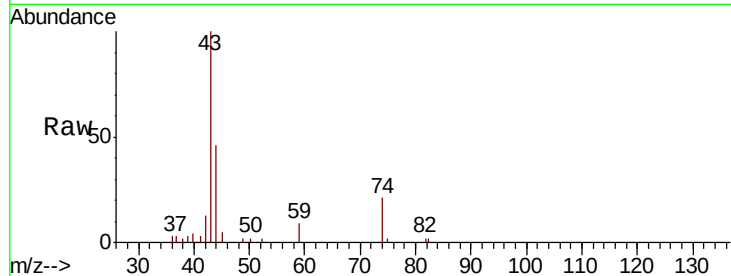




#18
Methyl Acetate
Concen: 1.759 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.00 min
Lab File: VX005789.D
Acq: 05 Nov 2018 20:04

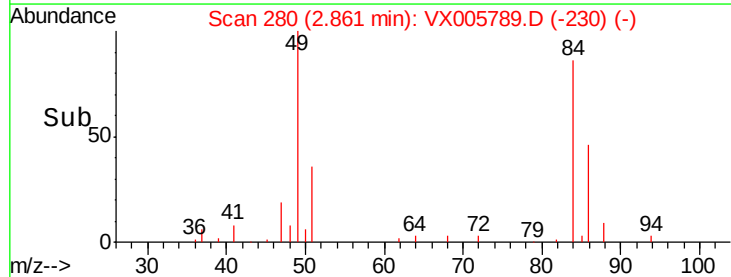
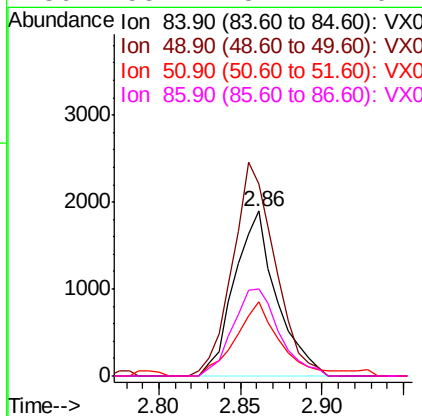
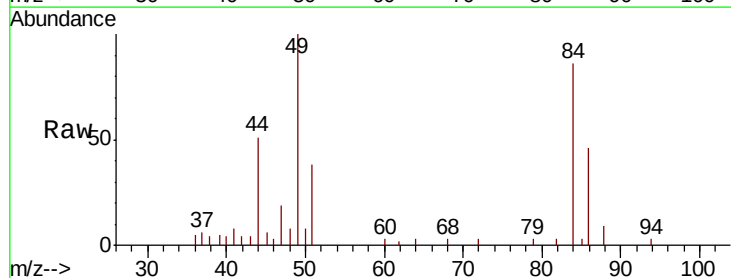
Instrument :
MSVOA_X
ClientSampleId :

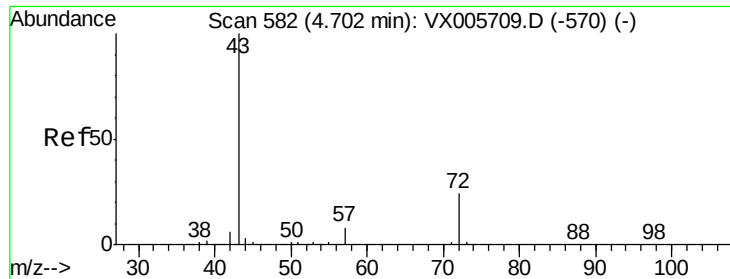
Tot Ion: 43 Resp: 5397
Ion Ratio Lower Upper
43 100
74 22.7 16.8 25.2



#20
Methylene Chloride
Concen: 1.860 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX005789.D
Acq: 05 Nov 2018 20:04

Tgt Ion: 84 Resp: 3429
Ion Ratio Lower Upper
84 100
49 116.4 109.5 164.3
51 44.8 33.3 49.9
86 53.1 52.7 79.1





#25

2-Butanone

Concen: 1.961 ug/l

RT: 4.70 min Scan# 581

Delta R.T. -0.01 min

Lab File: VX005789.D

Acq: 05 Nov 2018 20:04

Instrument :

MSVOA_X

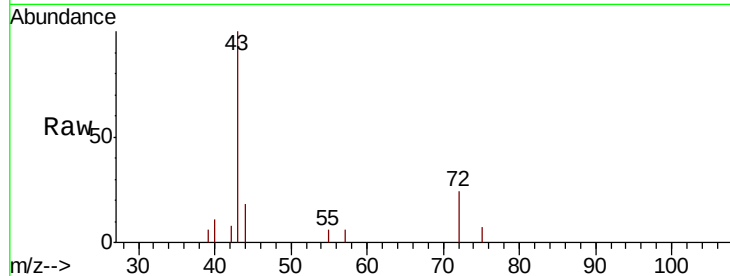
ClientSampled :

Tot Ion: 43 Resp: 3536

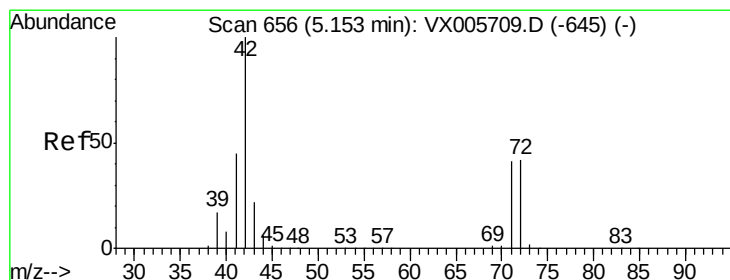
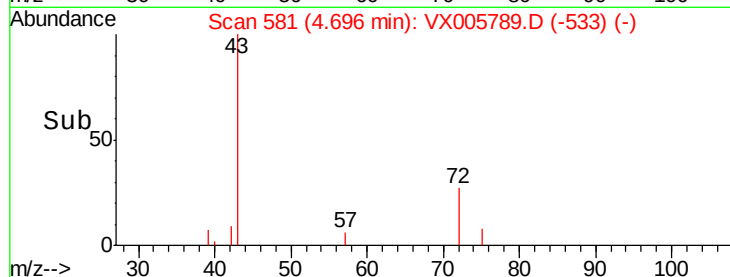
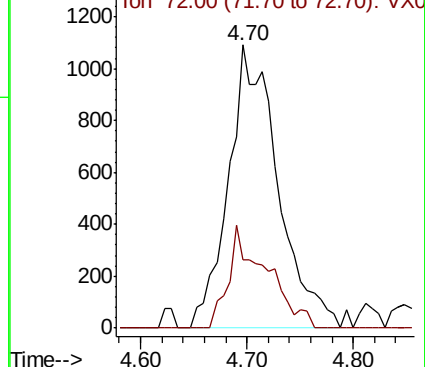
Ion Ratio Lower Upper

43 100

72 23.9 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VX0



#29

Tetrahydrofuran

Concen: 0.419 ug/l

RT: 5.16 min Scan# 657

Delta R.T. 0.01 min

Lab File: VX005789.D

Acq: 05 Nov 2018 20:04

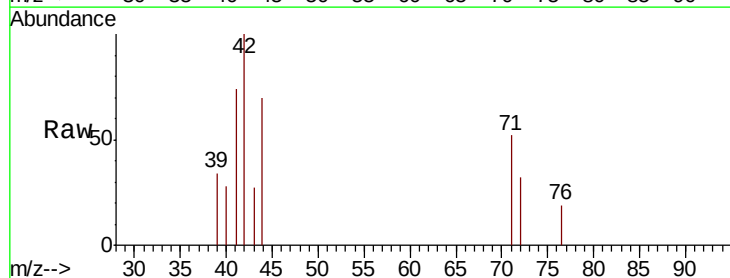
Tgt Ion: 42 Resp: 461

Ion Ratio Lower Upper

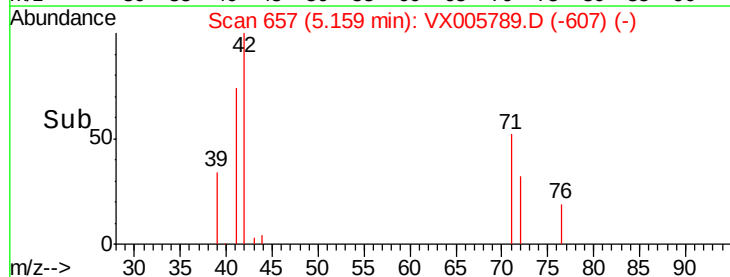
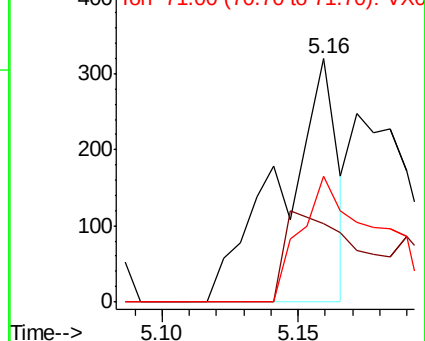
42 100

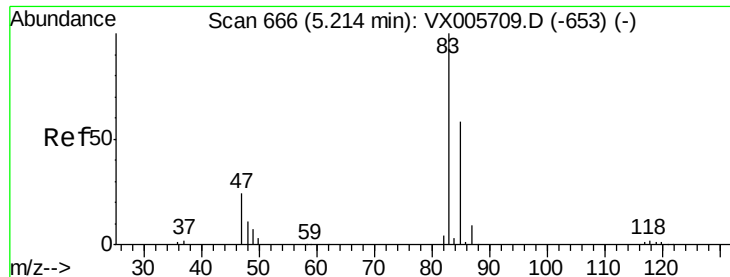
72 48.6 32.0 48.0#

71 72.0 29.8 44.8#



Abundance Ion 42.00 (41.70 to 42.70): VX0

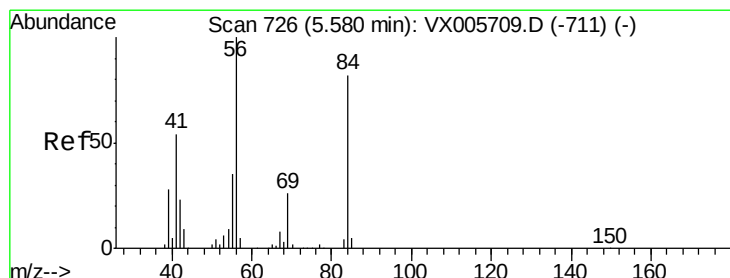
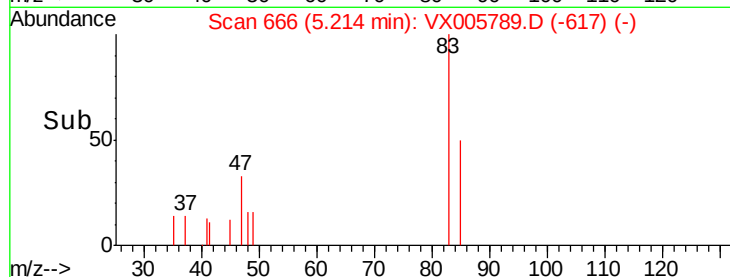
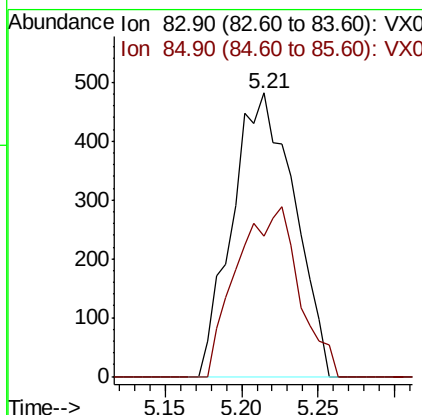
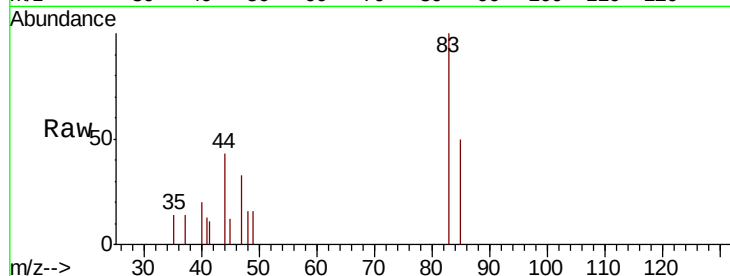




#30
Chloroform
Concen: 0.406 ug/l
RT: 5.21 min Scan# 666
Delta R.T. 0.00 min
Lab File: VX005789.D
Acq: 05 Nov 2018 20:04

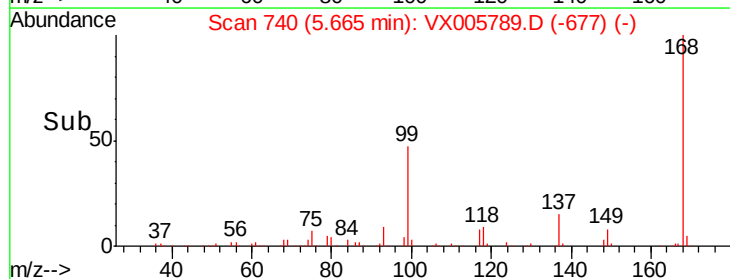
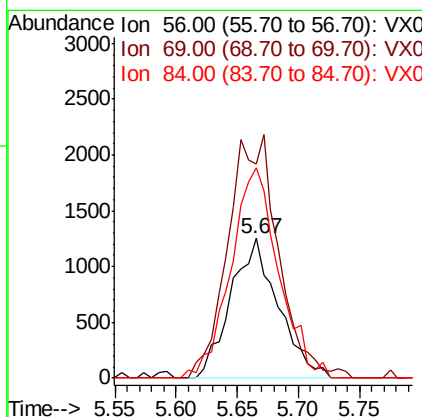
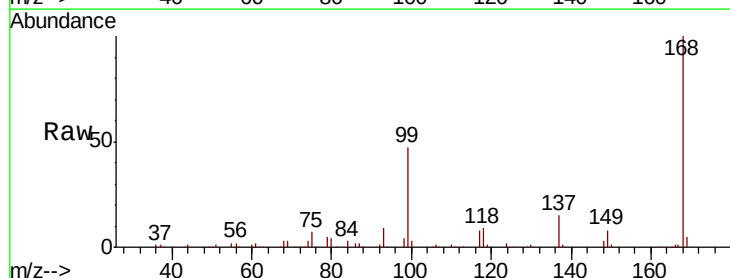
Instrument :
MSVOA_X
ClientSampled :

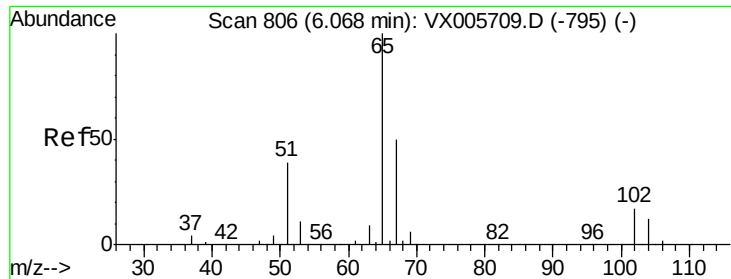
Tot Ion: 83 Resp: 1356
Ion Ratio Lower Upper
83 100
85 49.6 50.6 76.0#



#31
Cyclohexane
Concen: 1.181 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.09 min
Lab File: VX005789.D
Acq: 05 Nov 2018 20:04

Tgt Ion: 56 Resp: 3373
Ion Ratio Lower Upper
56 100
69 153.6 22.6 34.0#
84 150.2 62.7 94.1#

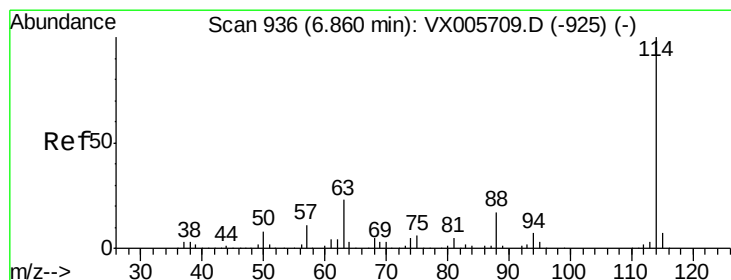
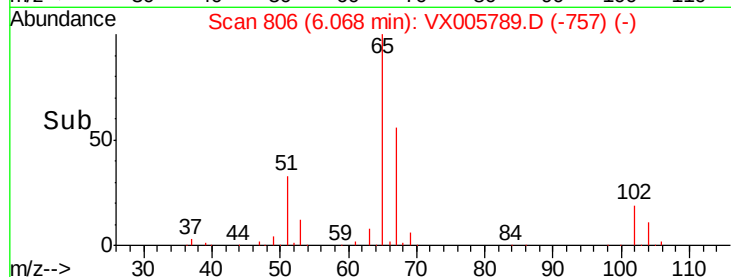
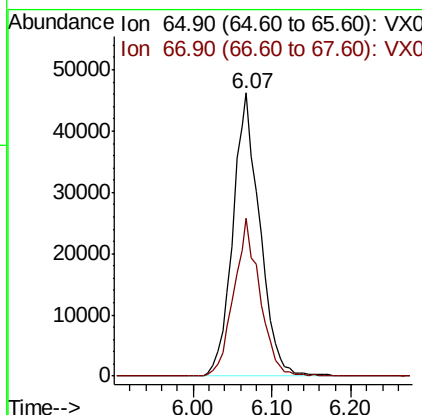
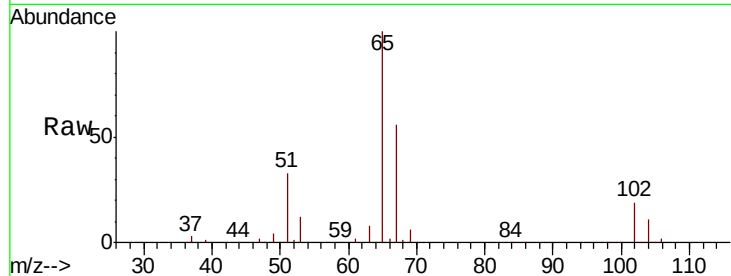




#33
 1,2-Dichloroethane-d4
 Concen: 51.291 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. 0.00 min
 Lab File: VX005789.D
 Acq: 05 Nov 2018 20:04

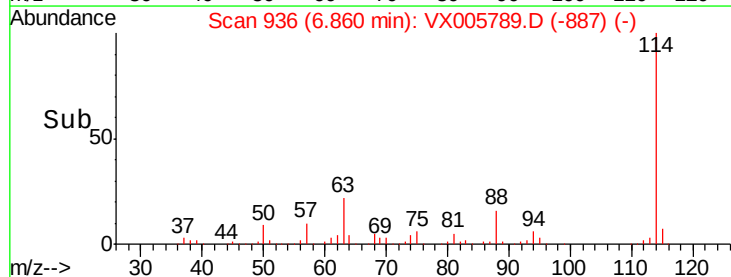
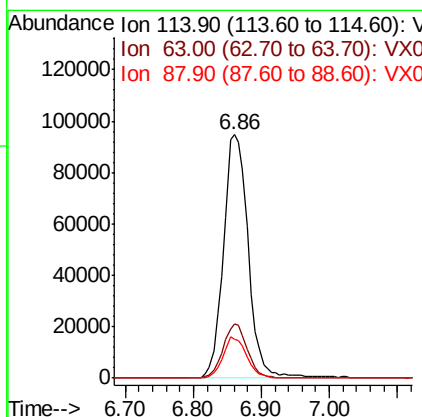
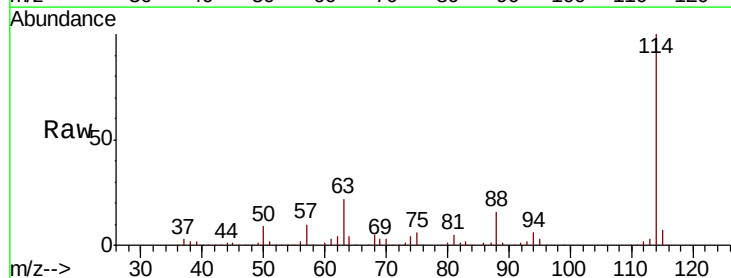
Instrument :
 MSVOA_X
 ClientSampled :

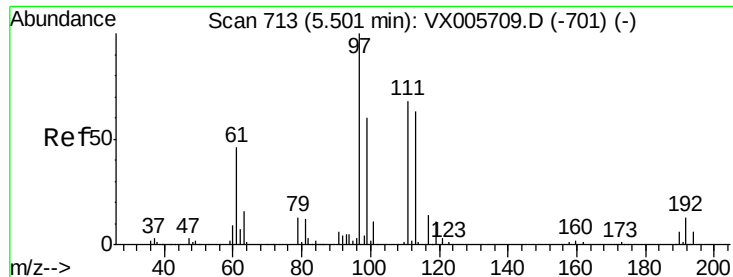
Tot Ion: 65 Resp: 109649
 Ion Ratio Lower Upper
 65 100
 67 53.8 0.0 105.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX005789.D
 Acq: 05 Nov 2018 20:04

Tgt Ion: 114 Resp: 238172
 Ion Ratio Lower Upper
 114 100
 63 22.2 0.0 42.8
 88 15.9 0.0 31.2

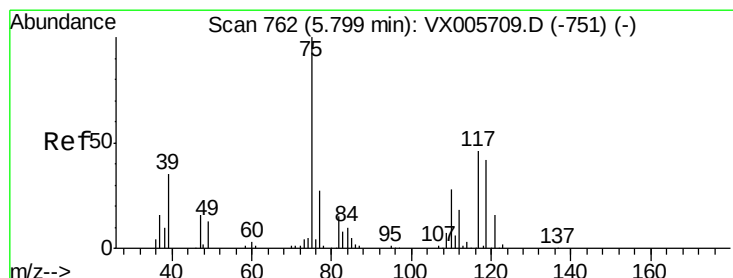
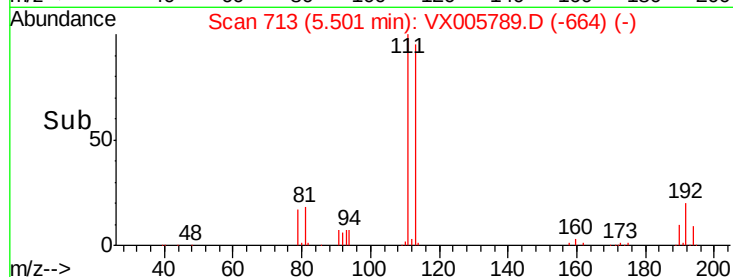
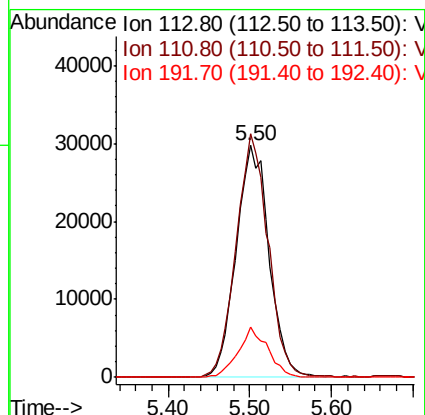
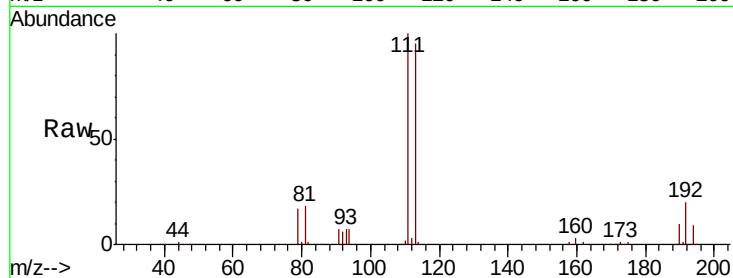




#35
 Dibromofluoromethane
 Concen: 50.389 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.00 min
 Lab File: VX005789.D
 Acq: 05 Nov 2018 20:04

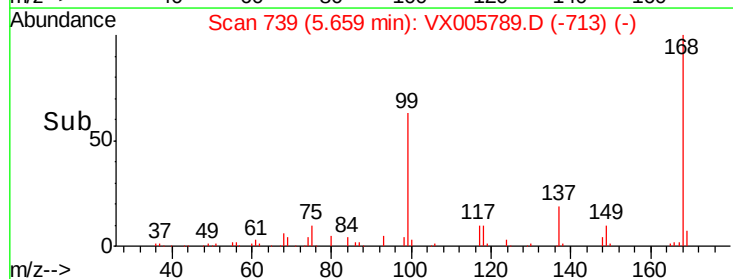
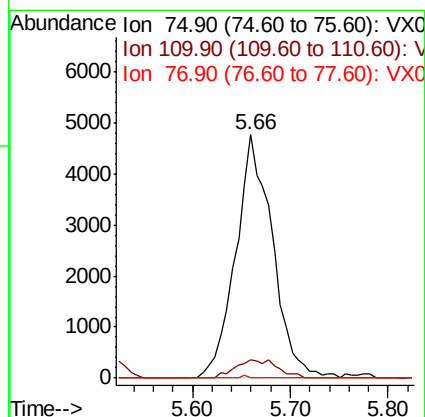
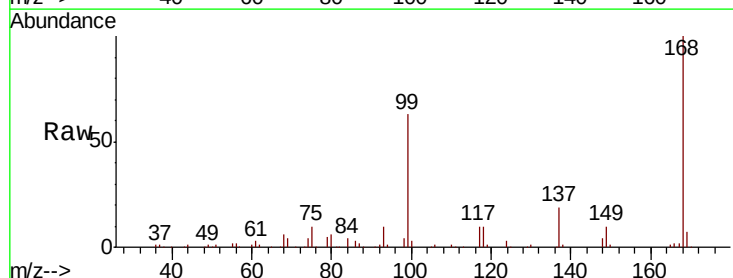
Instrument :
 MSVOA_X
 ClientSampleId :

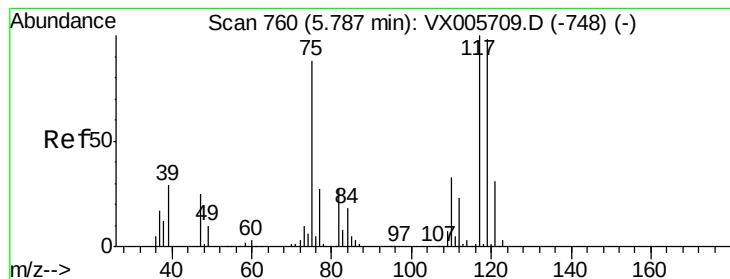
Tot Ion:113 Resp: 83098
 Ion Ratio Lower Upper
 113 100
 111 102.3 82.3 123.5
 192 19.6 17.9 26.9



#36
 1,1-Dichloropropene
 Concen: 4.910 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX005789.D
 Acq: 05 Nov 2018 20:04

Tgt Ion: 75 Resp: 12459
 Ion Ratio Lower Upper
 75 100
 110 8.6 17.4 52.2#
 77 0.2 25.8 38.6#





#38

Carbon Tetrachloride

Concen: 5.965 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX005789.D

Acq: 05 Nov 2018 20:04

Instrument :

MSVOA_X

ClientSampleId :

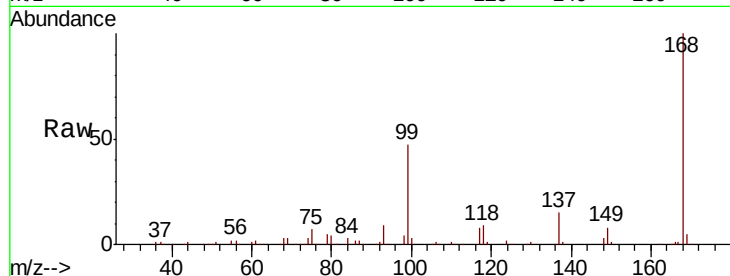
Tot Ion:117 Resp: 13676

Ion Ratio Lower Upper

117 100

119 6.1 78.1 117.1#

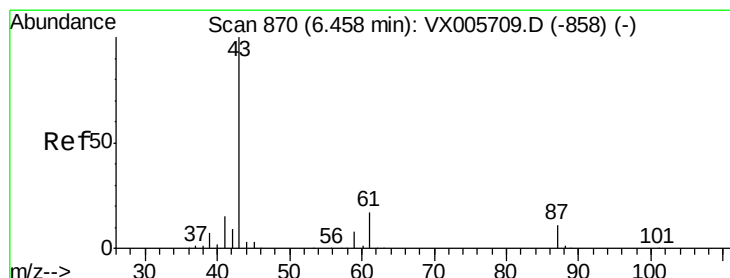
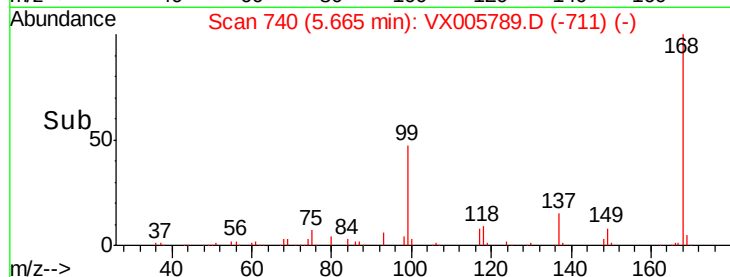
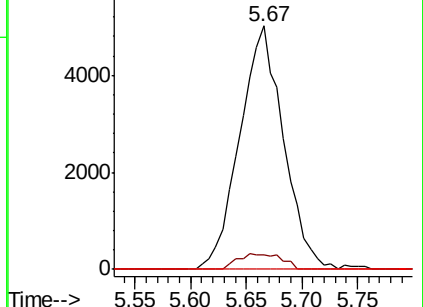
121 0.0 24.6 36.8#



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



#43

Isopropyl Acetate

Concen: 23.187 ug/l

RT: 6.46 min Scan# 870

Delta R.T. 0.00 min

Lab File: VX005789.D

Acq: 05 Nov 2018 20:04

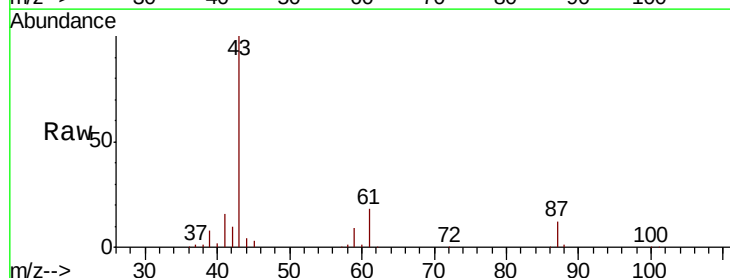
Tgt Ion: 43 Resp: 108949

Ion Ratio Lower Upper

43 100

61 19.3 14.6 22.0

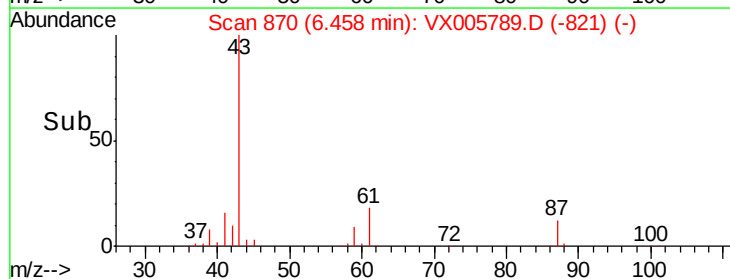
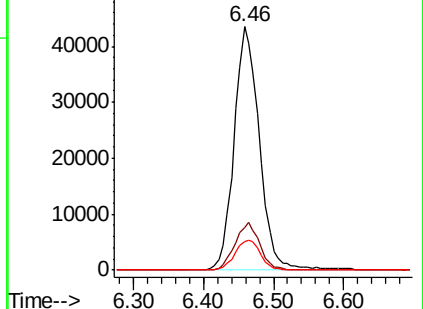
87 12.5 9.6 14.4

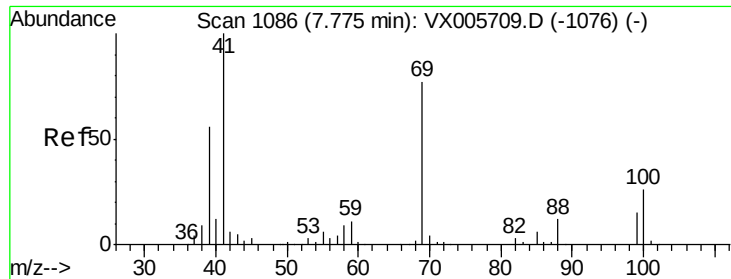


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

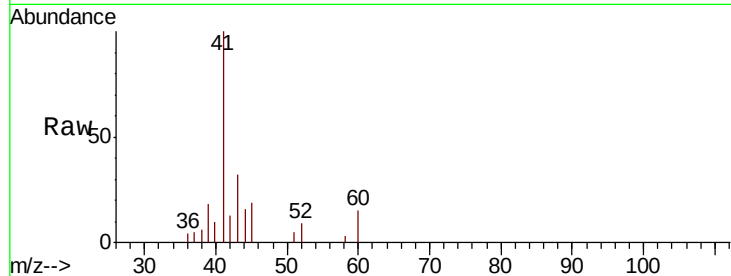




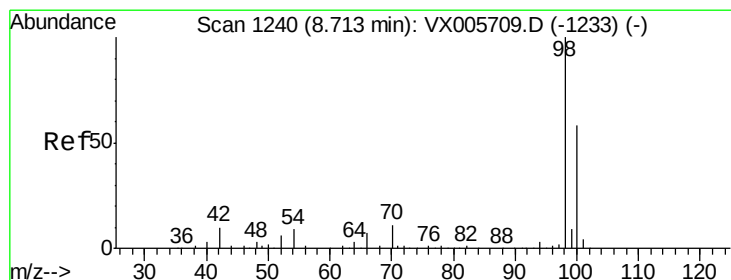
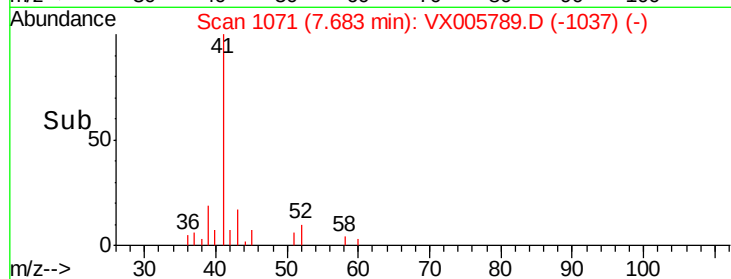
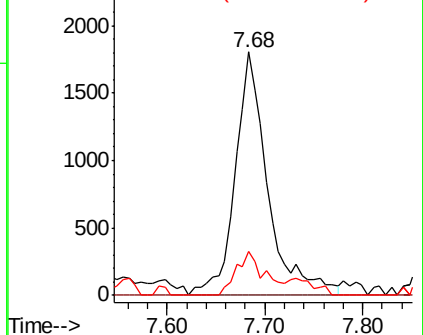
#48
Methvl methacrylate
Concen: 1.838 ug/l
RT: 7.68 min Scan# 1071
Delta R.T. -0.09 min
Lab File: VX005789.D
Acq: 05 Nov 2018 20:04

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 41 Resp: 4180
Ion Ratio Lower Upper
41 100
69 0.0 63.2 94.8#
39 15.7 42.2 63.2#

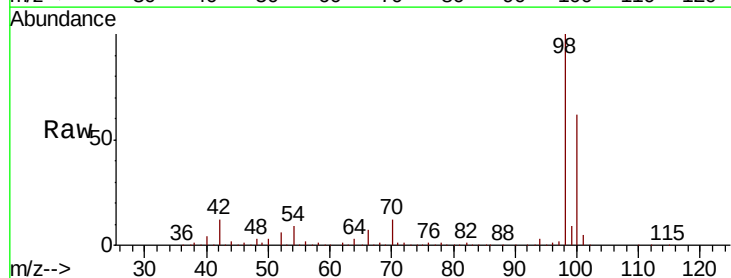


Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 39.00 (38.70 to 39.70): VX0

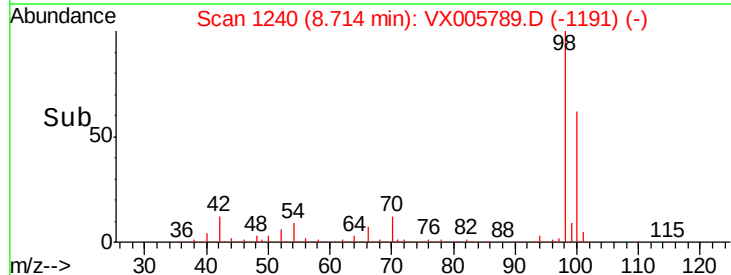
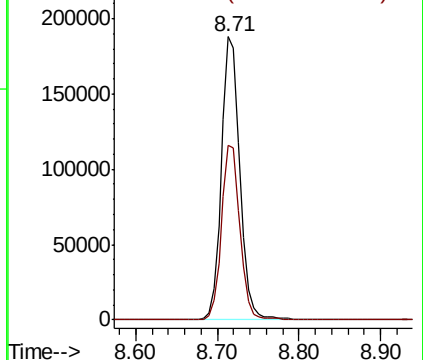


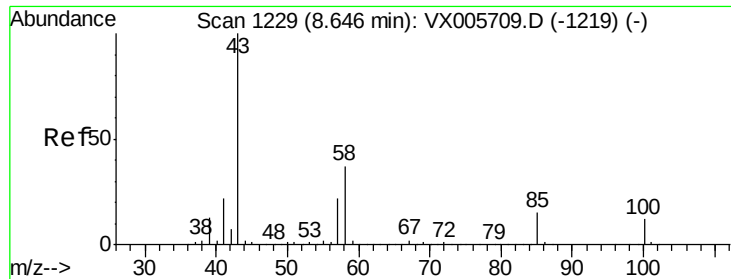
#50
Toluene-d8
Concen: 51.106 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX005789.D
Acq: 05 Nov 2018 20:04

Tgt Ion: 98 Resp: 295596
Ion Ratio Lower Upper
98 100
100 62.0 51.3 76.9



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





#51

4-Methyl-2-Pentanone

Concen: 0.424 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.03 min

Lab File: VX005789.D

Acq: 05 Nov 2018 20:04

Instrument :

MSVOA_X

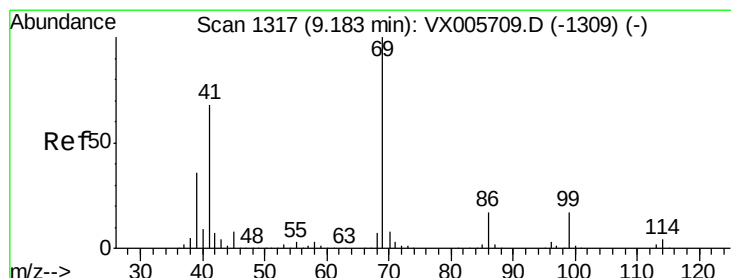
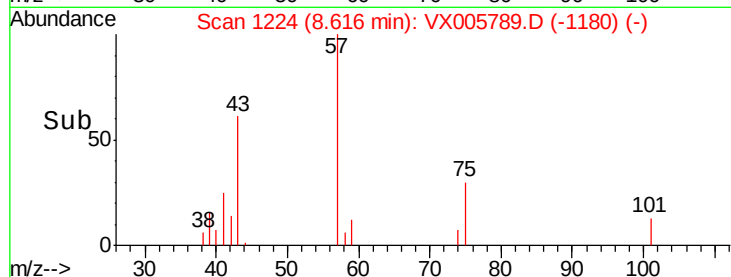
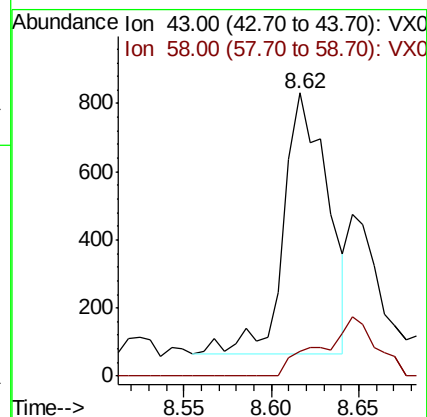
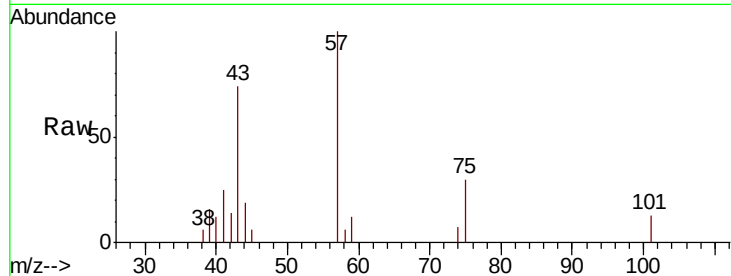
ClientSampled :

Tot Ion: 43 Resp: 1359

Ion Ratio Lower Upper

43 100

58 0.0 29.7 44.5#



#56

Ethyl methacrylate

Concen: 2.489 ug/l

RT: 9.00 min Scan# 1287

Delta R.T. -0.18 min

Lab File: VX005789.D

Acq: 05 Nov 2018 20:04

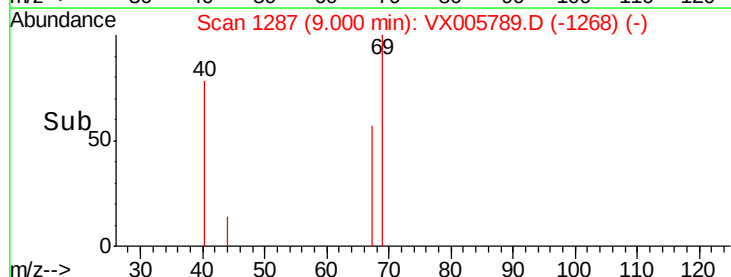
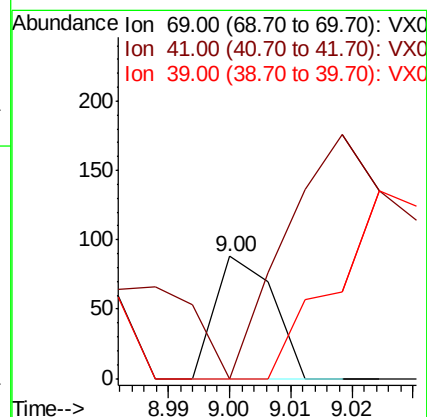
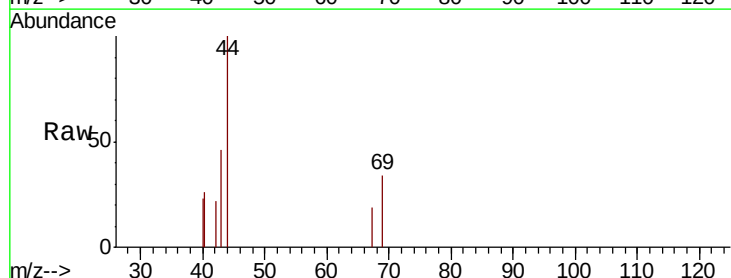
Tgt Ion: 69 Resp: 58

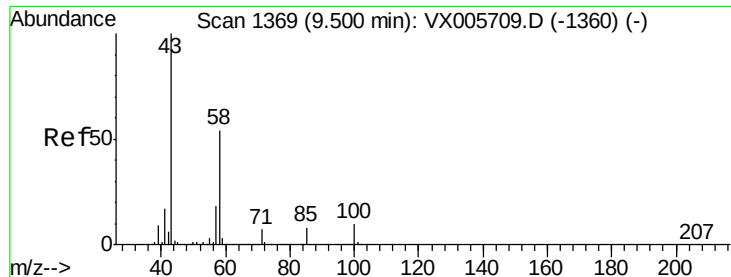
Ion Ratio Lower Upper

69 100

41 0.0 57.0 85.6#

39 0.0 28.3 42.5#

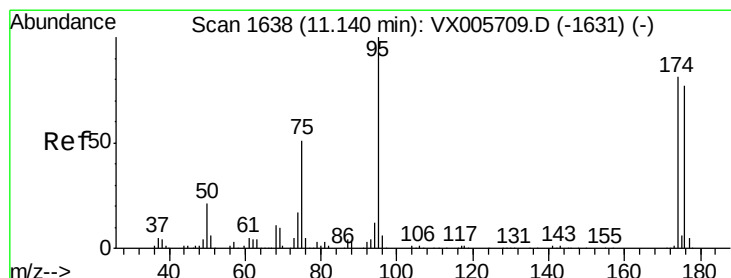
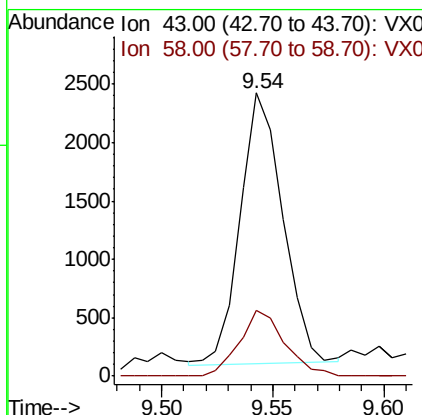
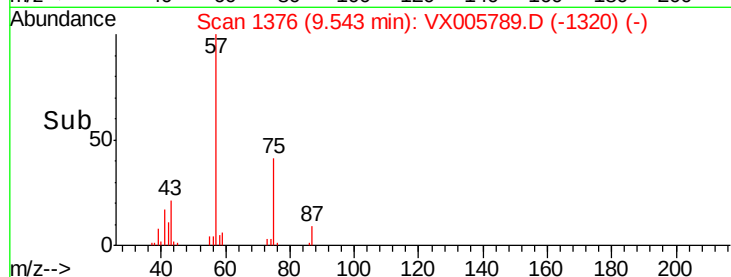
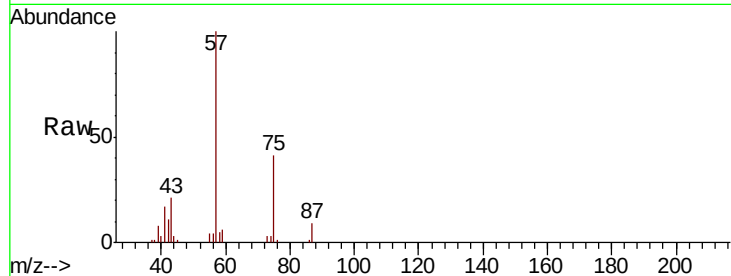




#59
2-Hexanone
Concen: 1.186 ug/l
RT: 9.54 min Scan# 1376
Delta R.T. 0.04 min
Lab File: VX005789.D
Acq: 05 Nov 2018 20:04

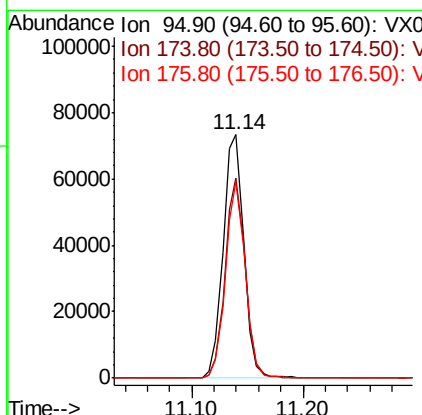
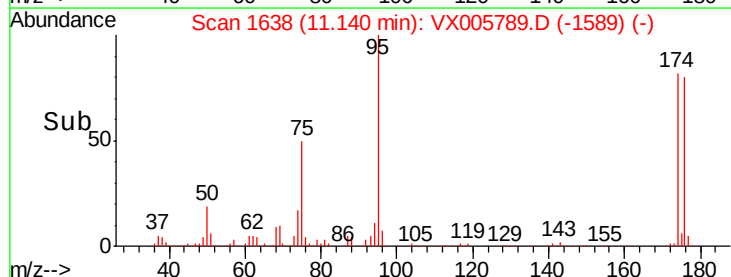
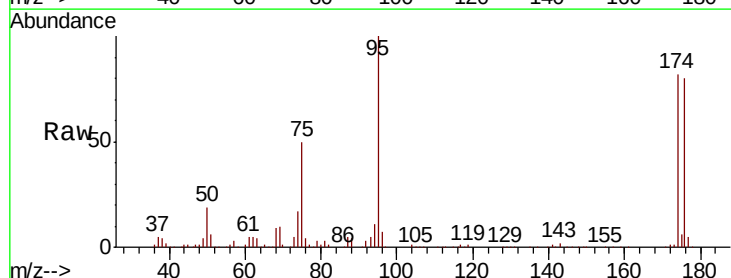
Instrument :
MSVOA_X
ClientSampled :

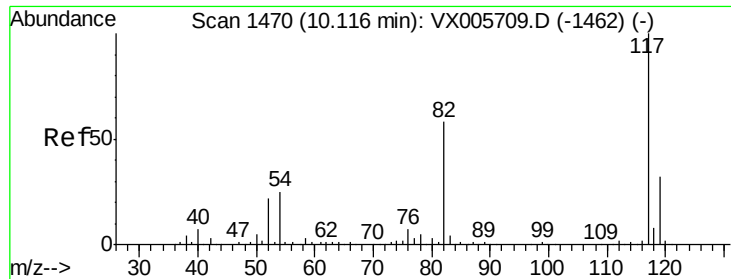
Tot Ion: 43 Resp: 3093
Ion Ratio Lower Upper
43 100
58 26.1 25.9 77.8



#62
4-Bromofluorobenzene
Concen: 44.208 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. 0.00 min
Lab File: VX005789.D
Acq: 05 Nov 2018 20:04

Tgt Ion: 95 Resp: 94372
Ion Ratio Lower Upper
95 100
174 79.8 0.0 184.4
176 76.8 0.0 177.4

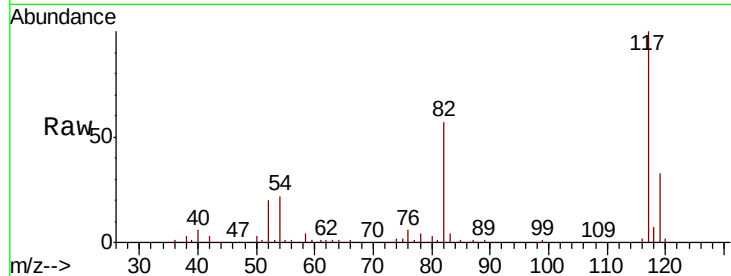




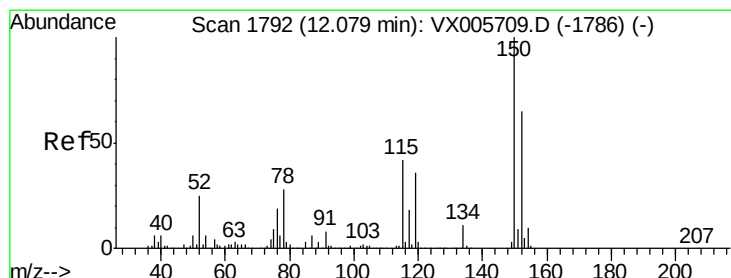
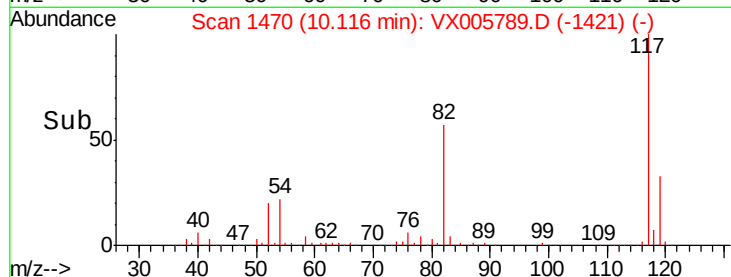
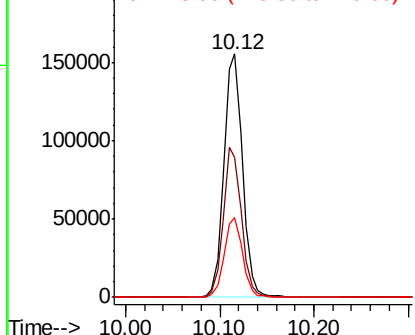
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX005789.D
Acq: 05 Nov 2018 20:04

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:117 Resp: 212746
Ion Ratio Lower Upper
117 100
82 57.3 44.1 66.1
119 32.7 26.2 39.2

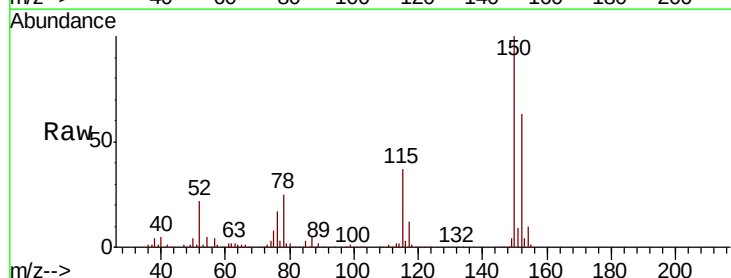


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

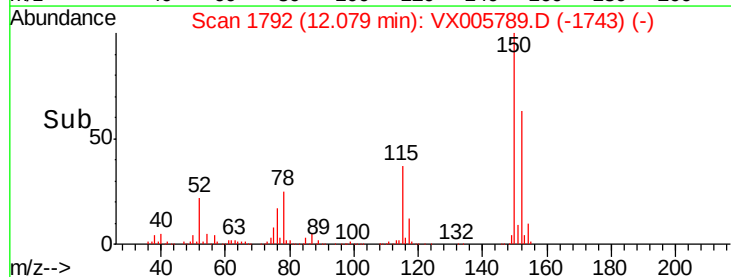
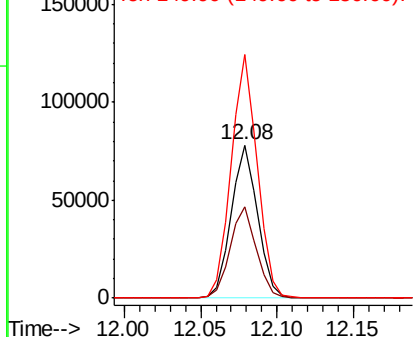


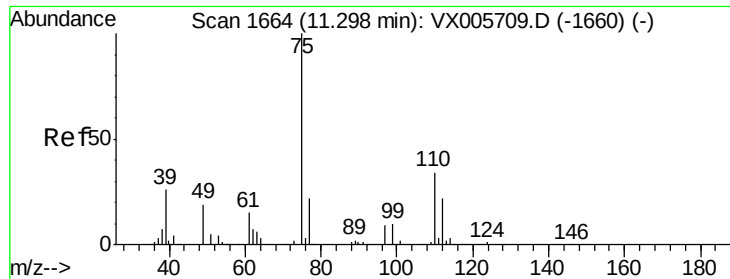
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX005789.D
Acq: 05 Nov 2018 20:04

Tgt Ion:152 Resp: 93252
Ion Ratio Lower Upper
152 100
115 59.2 39.4 118.1
150 157.3 0.0 346.4



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: 20.960 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX005789.D

Acq: 05 Nov 2018 20:04

Instrument :

MSVOA_X

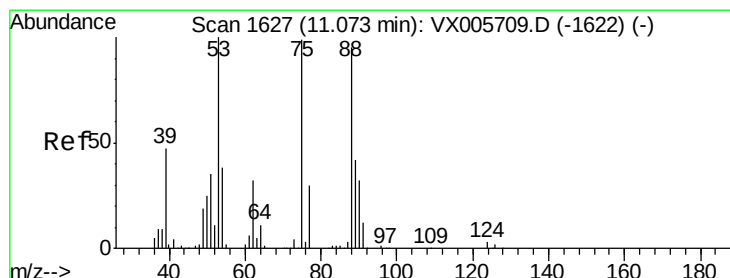
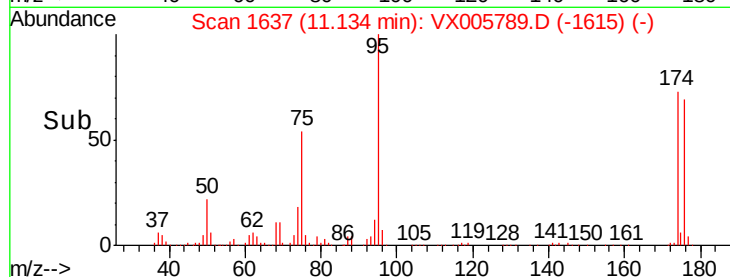
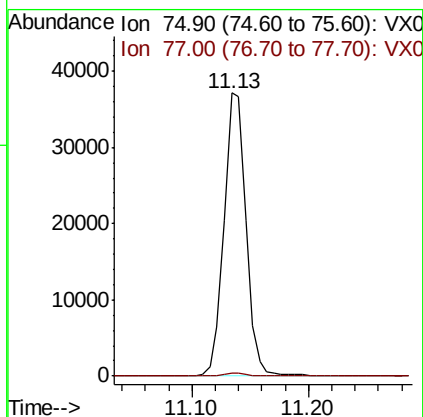
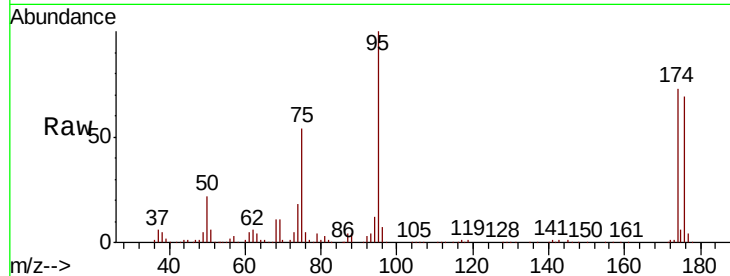
ClientSampleId :

Tot Ion: 75 Resp: 48680

Ion Ratio Lower Upper

75 100

77 1.3 20.5 61.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 67.719 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX005789.D

Acq: 05 Nov 2018 20:04

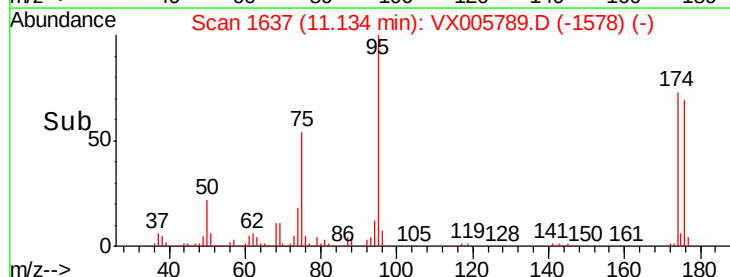
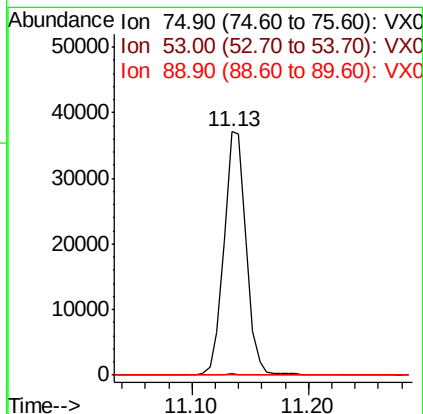
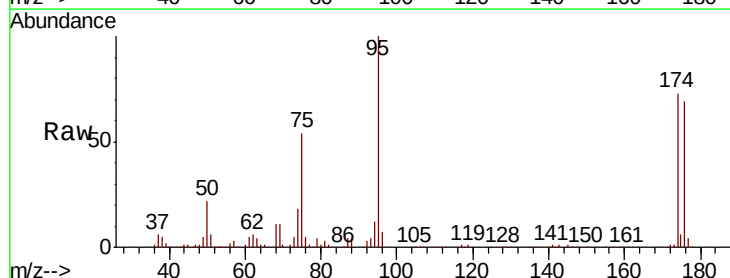
Tgt Ion: 75 Resp: 48680

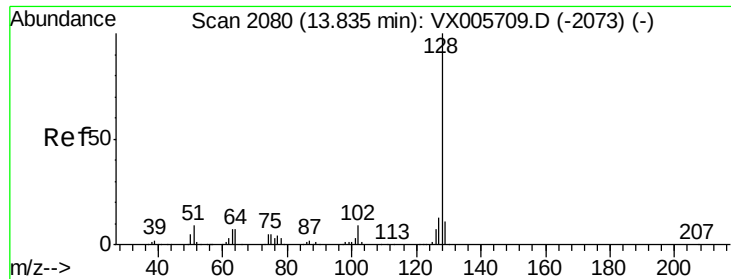
Ion Ratio Lower Upper

75 100

53 0.3 80.2 120.2#

89 0.0 39.8 59.8#

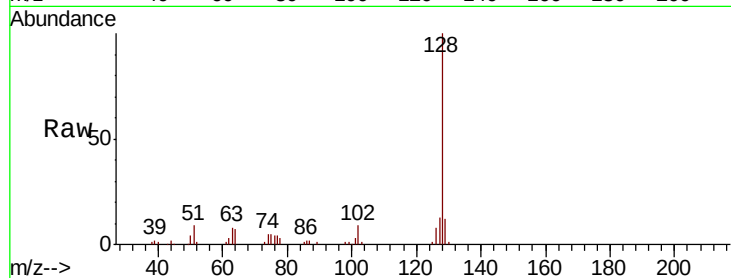




#95
 Naphthalene
 Concen: 2.626 ug/l
 RT: 13.83 min Scan# 2080
 Delta R.T. 0.00 min
 Lab File: VX005789.D
 Acq: 05 Nov 2018 20:04

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.4	15.6
129	11.6	8.7	13.1



Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

