

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX071619\
 Data File : VX010912.D
 Acq On : 16 Jul 2019 17:29
 Operator : JC/SP
 Sample : K3749-09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 FB071019

Quant Time: Jul 17 05:03:24 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 17 04:37:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	203403	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	317844	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	287799	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	131023	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	105419	48.72	ug/l	0.00
Spiked Amount			Recovery	=	97.44%	
35) Dibromofluoromethane	5.50	113	97677	48.42	ug/l	0.00
Spiked Amount			Recovery	=	96.84%	
50) Toluene-d8	8.71	98	375043	49.57	ug/l	0.00
Spiked Amount			Recovery	=	99.14%	
62) 4-Bromofluorobenzene	11.13	95	128269	46.12	ug/l	0.00
Spiked Amount			Recovery	=	92.24%	

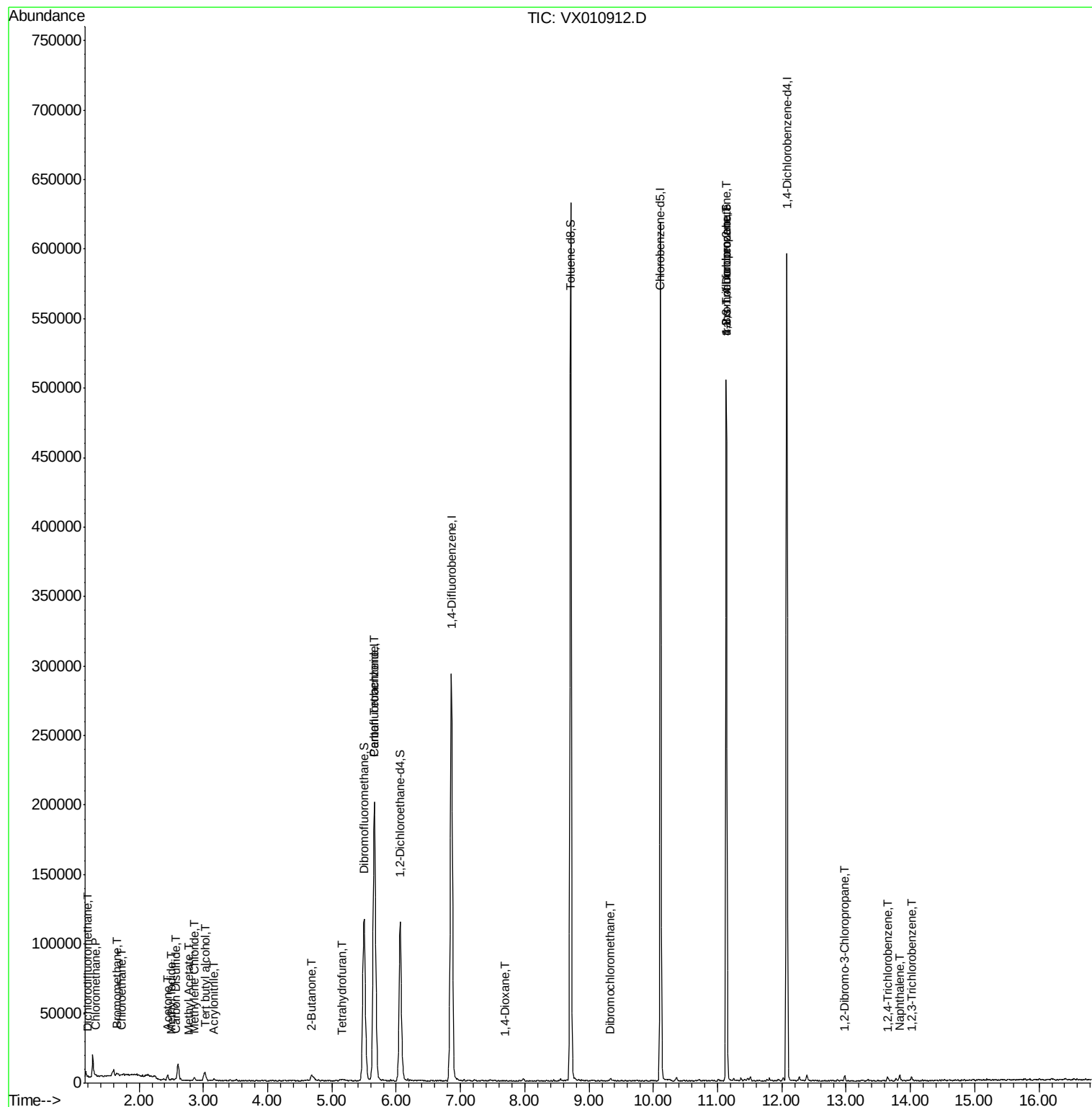
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	229	0.651	ug/l #	43
3) Chloromethane	1.33	50	661	0.353	ug/l	89
5) Bromomethane	1.66	94	866	0.805	ug/l	92
6) Chloroethane	1.72	64	529	0.436	ug/l #	63
10) Methyl Iodide	2.51	142	838	0.346	ug/l #	80
11) Tert butyl alcohol	3.03	59	4130	8.195	ug/l #	90
15) Acrylonitrile	3.15	53	482	0.473	ug/l #	84
16) Acetone	2.44	43	4055	4.149	ug/l	97
17) Carbon Disulfide	2.57	76	1598	0.344	ug/l #	82
18) Methyl Acetate	2.78	43	484	0.217	ug/l #	78
20) Methylene Chloride	2.86	84	743	0.359	ug/l #	82
25) 2-Butanone	4.69	43	608	0.433	ug/l #	46
29) Tetrahydrofuran	5.15	42	1322	1.488	ug/l #	63
38) Carbon Tetrachloride	5.66	117	19139	7.035	ug/l #	17
49) 1,4-Dioxane	7.69	88	41	0.684	ug/l #	1
60) Dibromochloromethane	9.34	129	198	2.603	ug/l #	11
76) 1,2,3-Trichloropropane	11.13	75	64116	27.117	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	64116	67.215	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	12.97	75	563	0.930	ug/l #	1
93) 1,2,4-Trichlorobenzene	13.65	180	891	0.313	ug/l	91
95) Naphthalene	13.83	128	2238	0.266	ug/l #	94
96) 1,2,3-Trichlorobenzene	14.01	180	707	0.250	ug/l	96

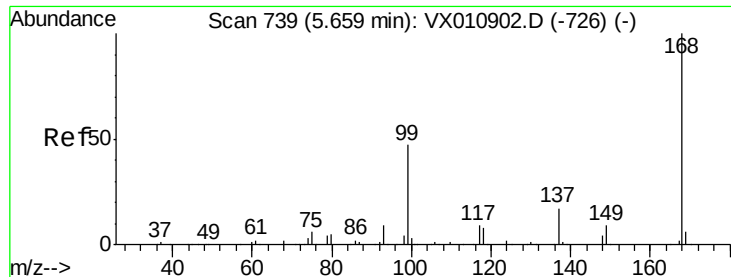
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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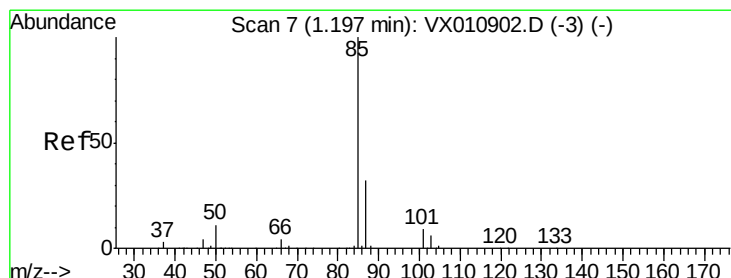
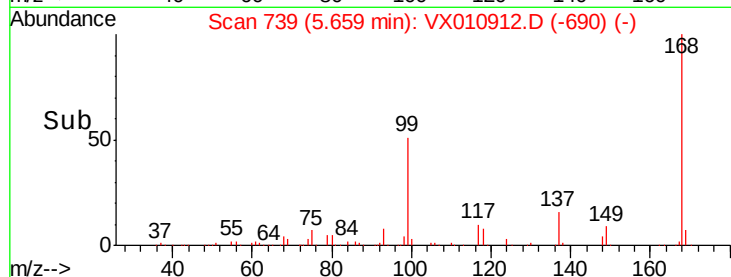
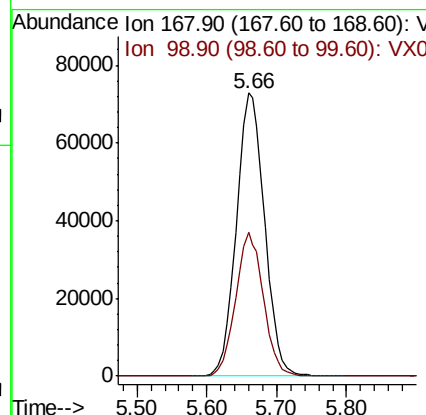
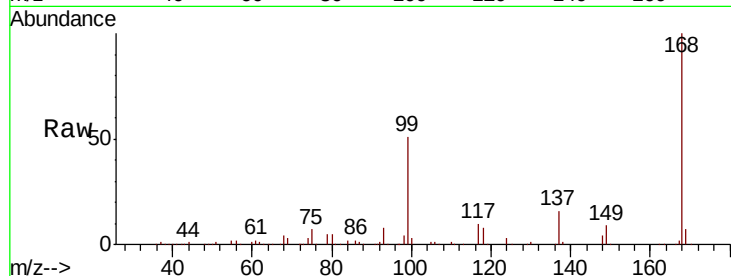




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.66 min Scan# 739
Delta R.T. -0.00 min
Lab File: VX010912.D
Acq: 16 Jul 2019 17:29

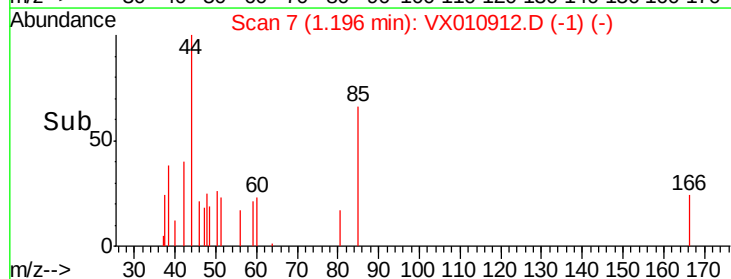
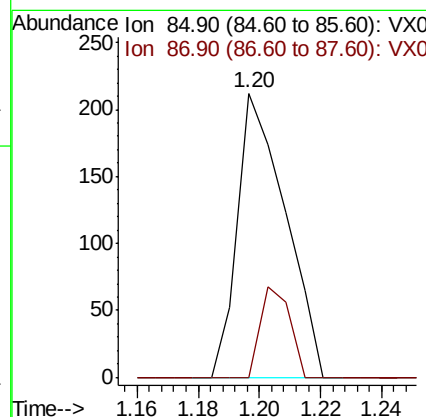
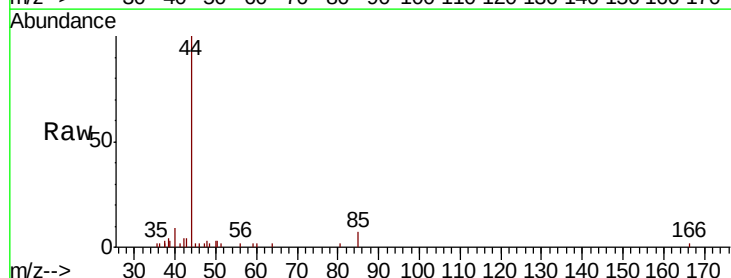
Instrument :
MSVOA_X
ClientSampleId :
FB071019

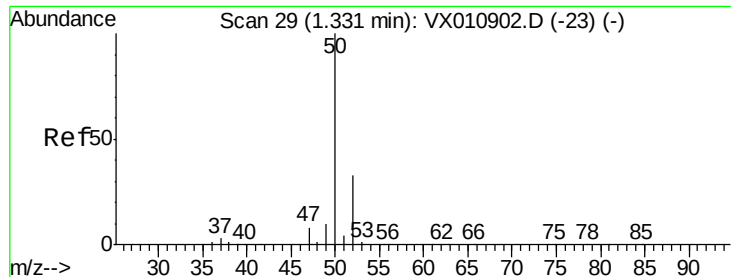
Tot Ion:168 Resp: 203403
Ion Ratio Lower Upper
168 100
99 50.6 37.6 56.4



#2
Dichlorodifluoromethane
Concen: 0.651 ug/l
RT: 1.20 min Scan# 7
Delta R.T. 0.00 min
Lab File: VX010912.D
Acq: 16 Jul 2019 17:29

Tgt Ion: 85 Resp: 229
Ion Ratio Lower Upper
85 100
87 0.0 15.9 47.7#





#3

Chloromethane

Concen: 0.353 ug/l

RT: 1.33 min Scan# 29

Delta R.T. -0.00 min

Lab File: VX010912.D

Acq: 16 Jul 2019 17:29

Instrument :

MSVOA_X

ClientSampleId :

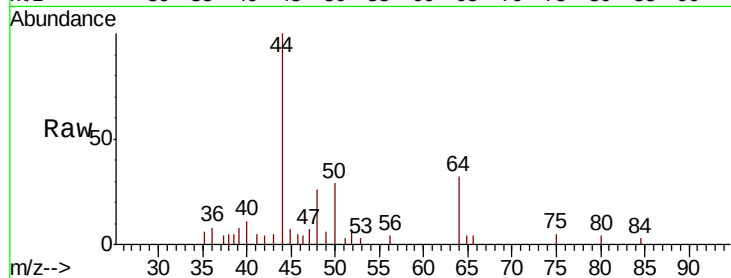
FB071019

Tot Ion: 50 Resp: 661

Ion Ratio Lower Upper

50 100

52 26.8 26.4 39.6



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

600

400

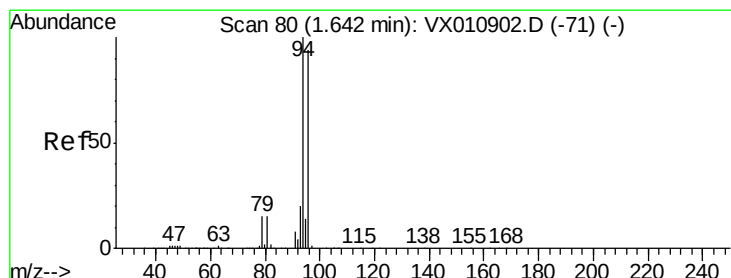
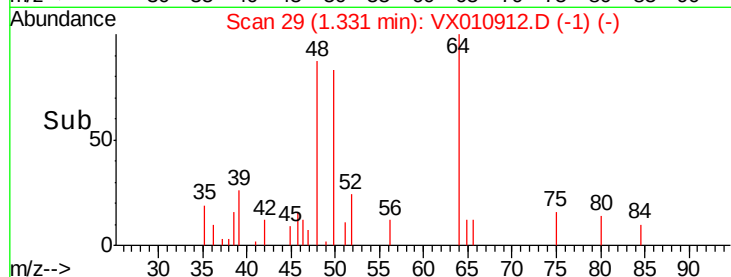
200

0

1.30

1.35

Time-->



#5

Bromomethane

Concen: 0.805 ug/l

RT: 1.66 min Scan# 83

Delta R.T. 0.02 min

Lab File: VX010912.D

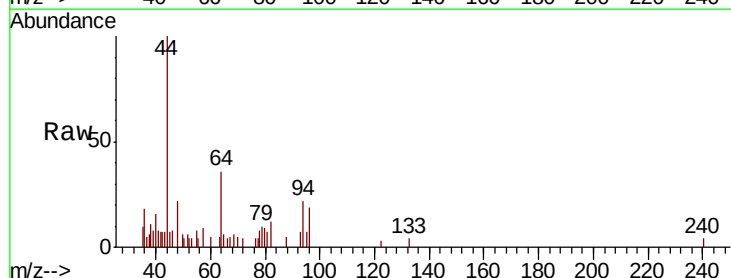
Acq: 16 Jul 2019 17:29

Tgt Ion: 94 Resp: 866

Ion Ratio Lower Upper

94 100

96 86.5 75.6 113.4



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.66

400

300

200

100

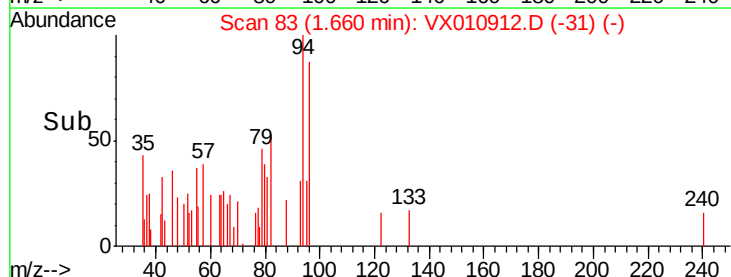
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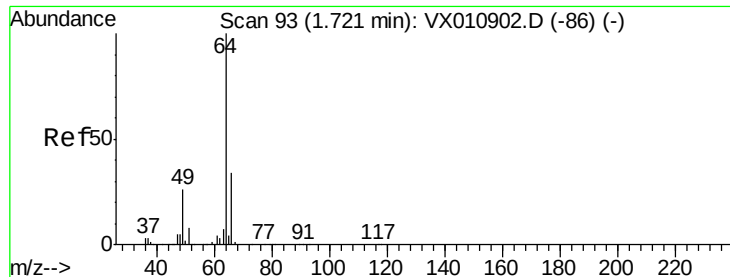
1.60

1.65

1.70

Time-->





#6

Chloroethane

Concen: 0.436 ug/l

RT: 1.72 min Scan# 93

Delta R.T. -0.00 min

Lab File: VX010912.D

Acq: 16 Jul 2019 17:29

Instrument :

MSVOA_X

ClientSampleId :

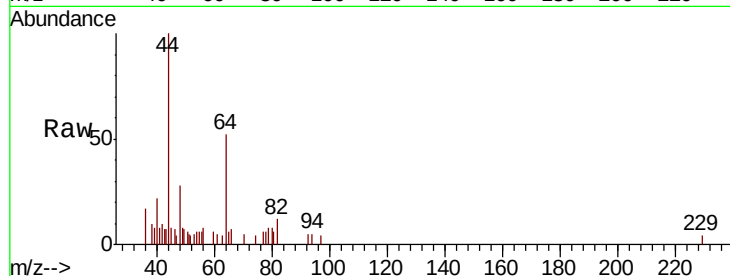
FB071019

Tot Ion: 64 Resp: 529

Ion Ratio Lower Upper

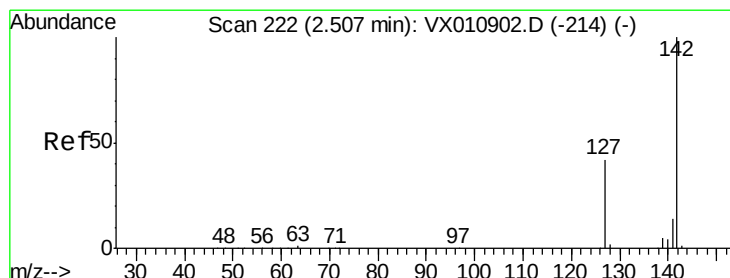
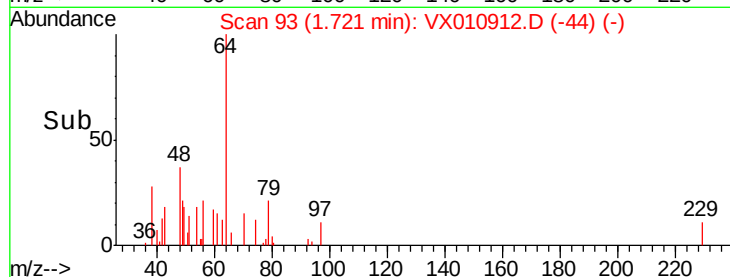
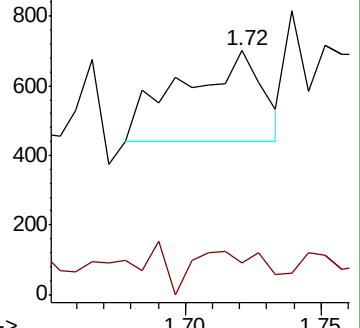
64 100

66 12.7 27.0 40.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 0.346 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX010912.D

Acq: 16 Jul 2019 17:29

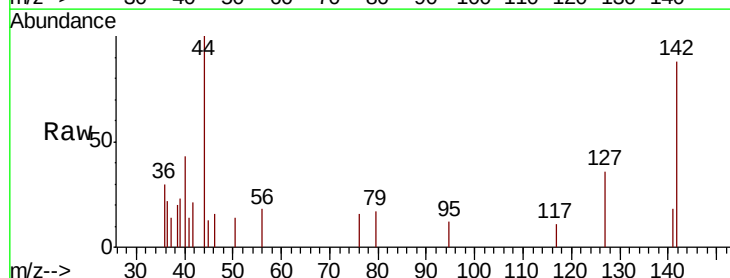
Tgt Ion: 142 Resp: 838

Ion Ratio Lower Upper

142 100

127 58.6 34.2 51.4#

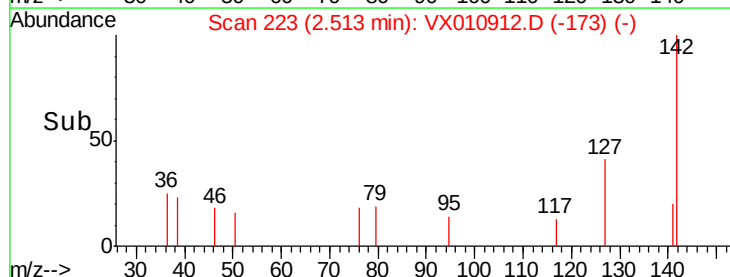
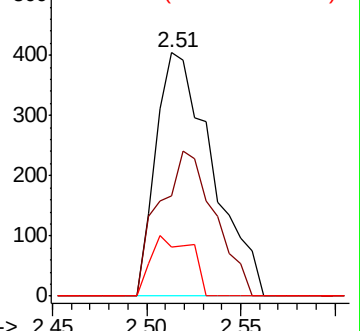
141 17.7 11.7 17.5#

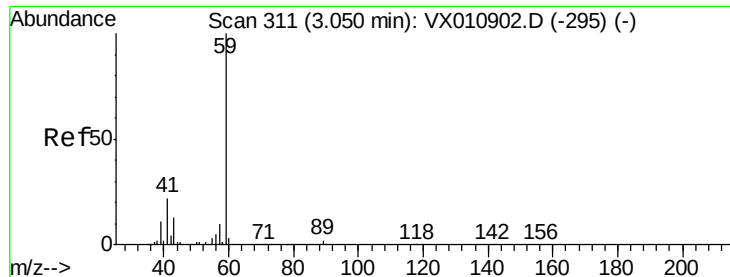


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



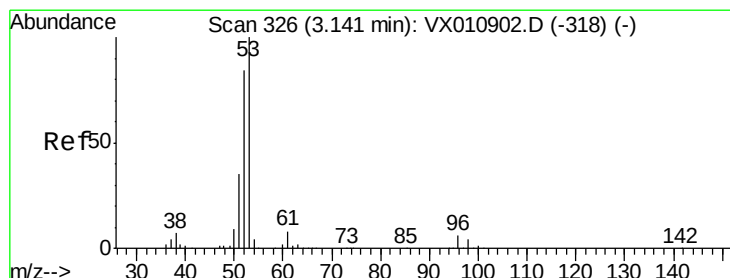
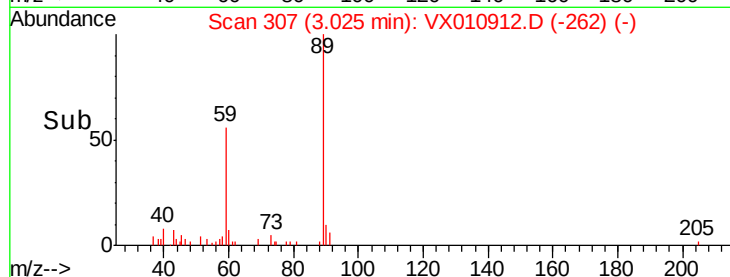
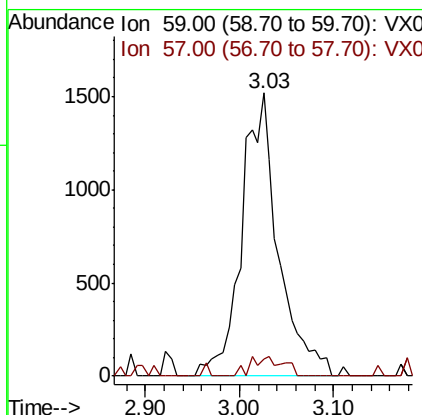
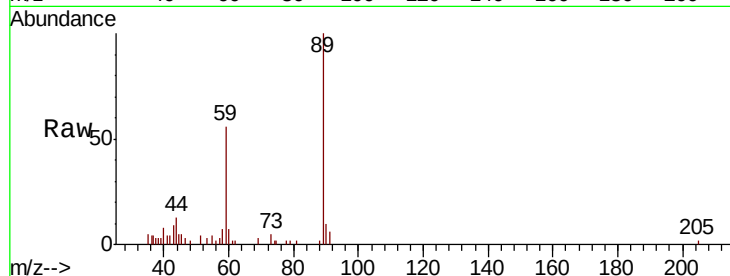


#11

Tert butyl alcohol
 Concen: 8.195 ug/l
 RT: 3.03 min Scan# 307
 Delta R.T. -0.02 min
 Lab File: VX010912.D
 Acq: 16 Jul 2019 17:29

Instrument :
 MSVOA_X
 ClientSampleId :
 FB071019

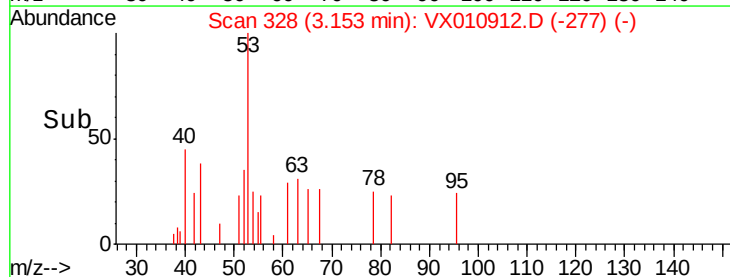
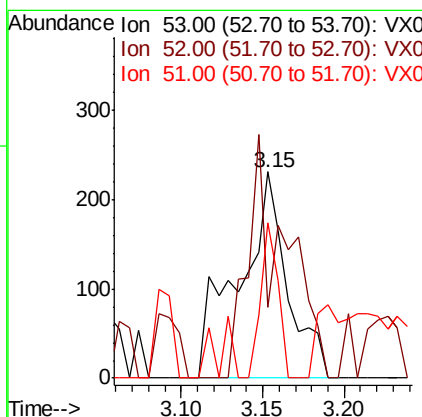
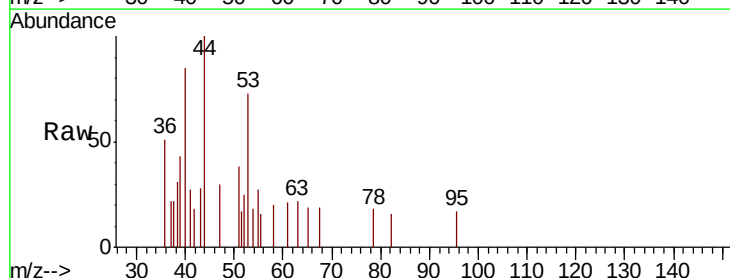
Tot Ion: 59 Resp: 4130
 Ion Ratio Lower Upper
 59 100
 57 6.1 7.9 11.9#

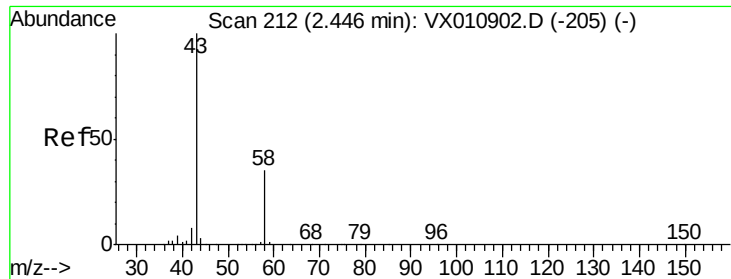


#15

Acrylonitrile
 Concen: 0.473 ug/l
 RT: 3.15 min Scan# 328
 Delta R.T. 0.01 min
 Lab File: VX010912.D
 Acq: 16 Jul 2019 17:29

Tgt Ion: 53 Resp: 482
 Ion Ratio Lower Upper
 53 100
 52 67.6 66.5 99.7
 51 27.0 28.2 42.4#





#16

Acetone

Concen: 4.149 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX010912.D

Acq: 16 Jul 2019 17:29

Instrument :

MSVOA_X

ClientSampleId :

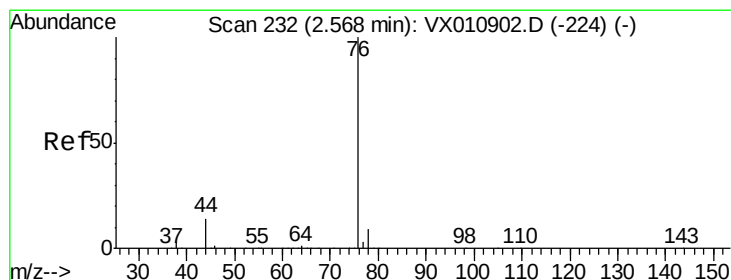
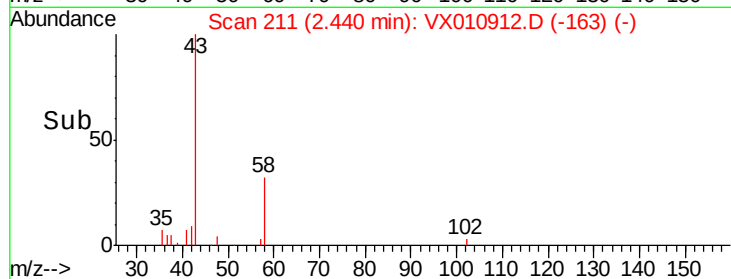
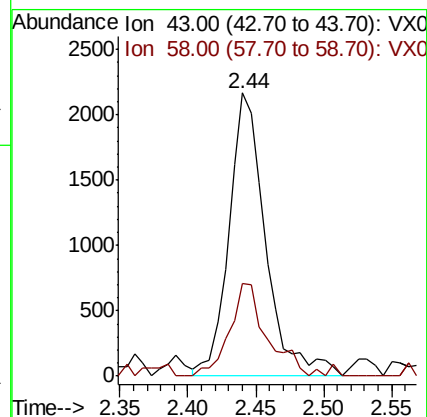
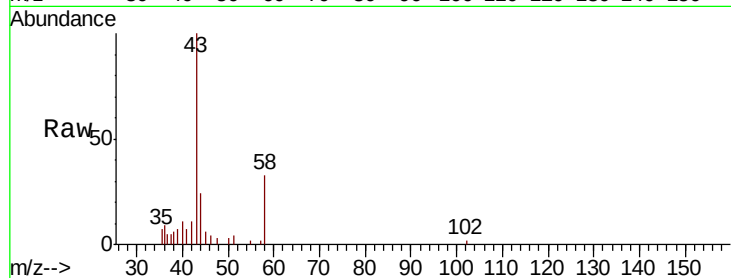
FB071019

Tot Ion: 43 Resp: 4055

Ion Ratio Lower Upper

43 100

58 32.7 27.7 41.5



#17

Carbon Disulfide

Concen: 0.344 ug/l

RT: 2.57 min Scan# 232

Delta R.T. -0.00 min

Lab File: VX010912.D

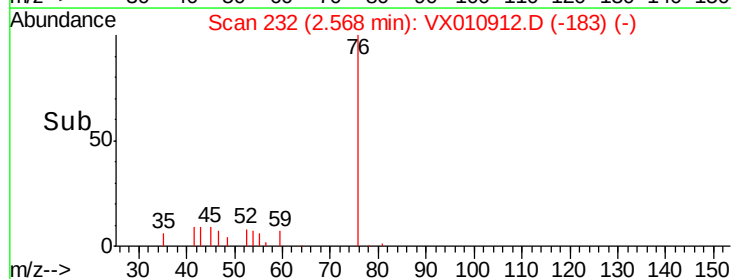
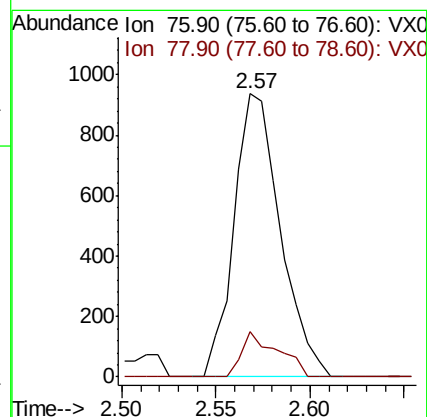
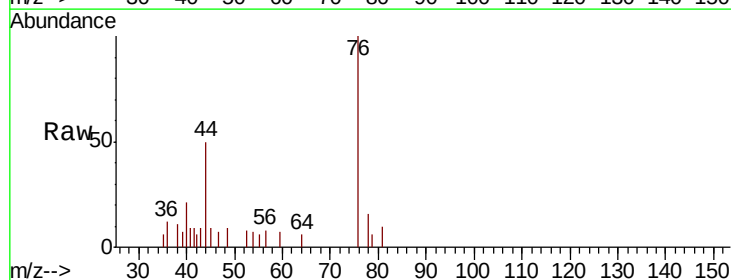
Acq: 16 Jul 2019 17:29

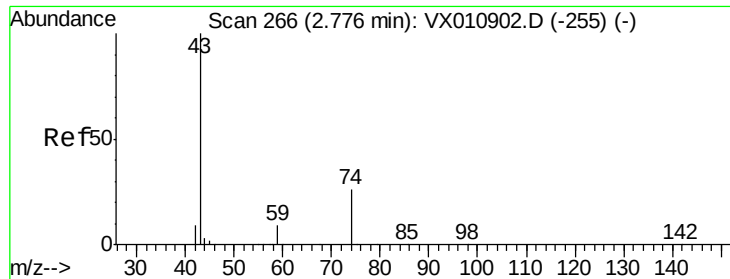
Tgt Ion: 76 Resp: 1598

Ion Ratio Lower Upper

76 100

78 15.9 7.4 11.0#

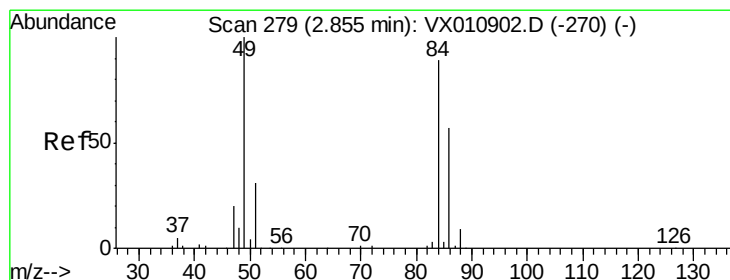
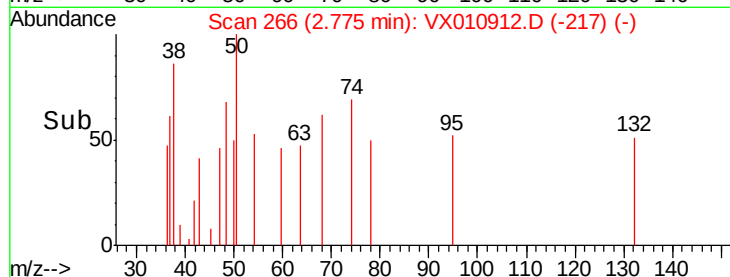
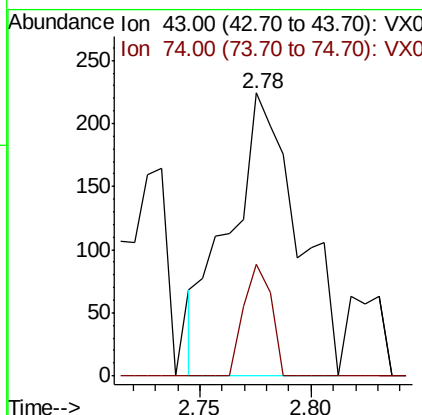
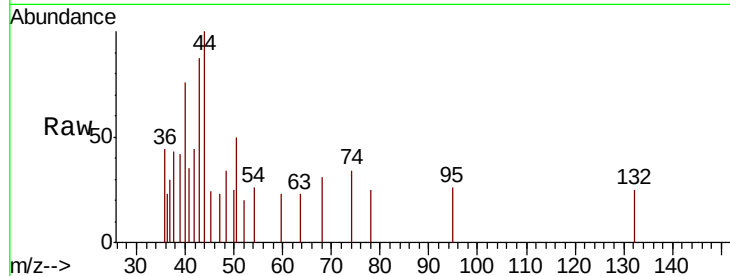




#18
Methvl Acetate
Concen: 0.217 ug/l
RT: 2.78 min Scan# 266
Delta R.T. -0.00 min
Lab File: VX010912.D
Acq: 16 Jul 2019 17:29

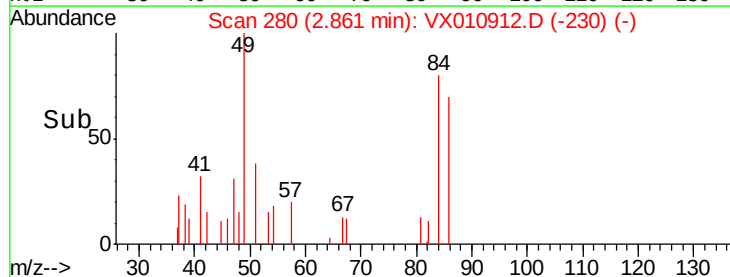
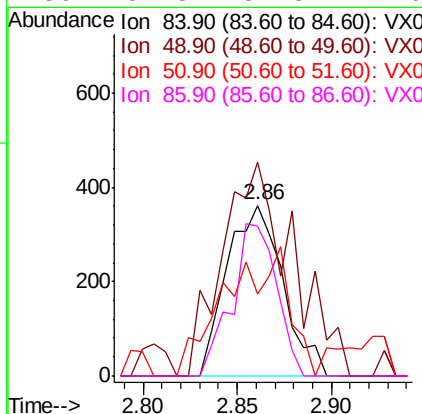
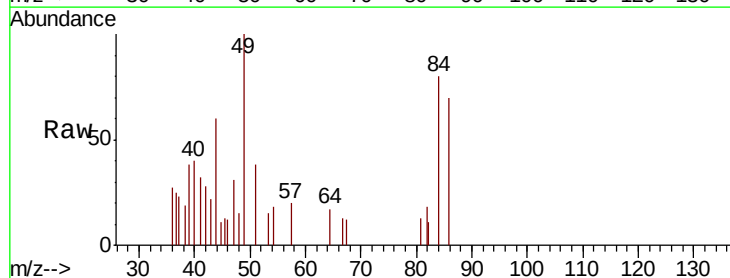
Instrument :
MSVOA_X
ClientSampleId :
FB071019

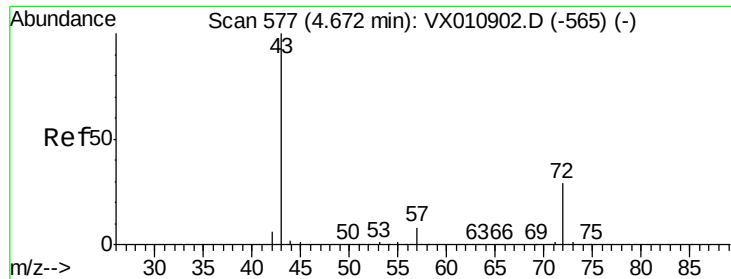
Tot Ion: 43 Resp: 484
Ion Ratio Lower Upper
43 100
74 15.7 21.5 32.3#



#20
Methylene Chloride
Concen: 0.359 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX010912.D
Acq: 16 Jul 2019 17:29

Tgt Ion: 84 Resp: 743
Ion Ratio Lower Upper
84 100
49 125.5 89.9 134.9
51 25.8 27.8 41.6#
86 87.8 51.8 77.6#





#25

2-Butanone

Concen: 0.433 ug/l

RT: 4.69 min Scan# 580

Delta R.T. 0.02 min

Lab File: VX010912.D

Acq: 16 Jul 2019 17:29

Instrument :

MSVOA_X

ClientSampleId :

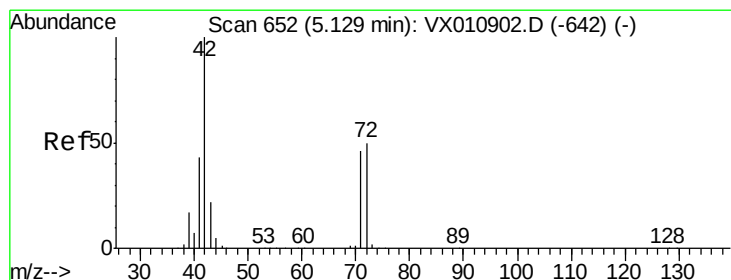
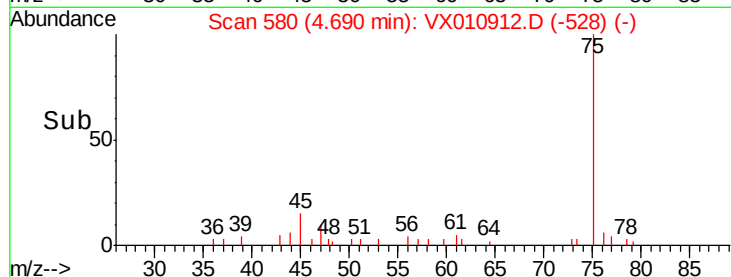
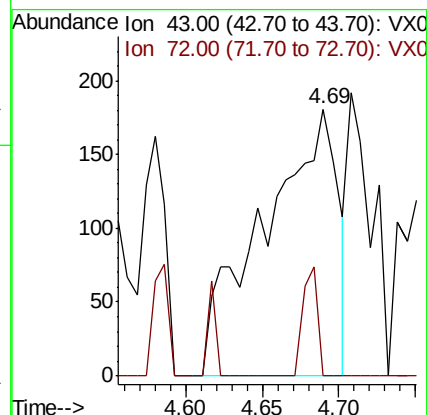
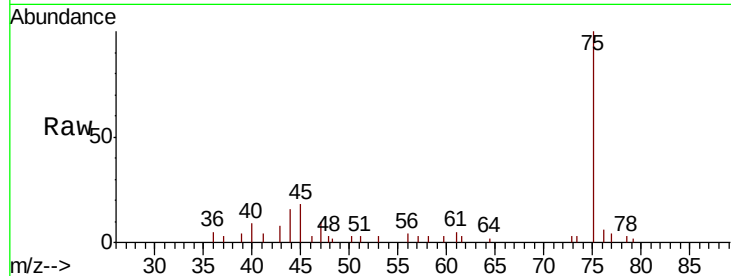
FB071019

Tot Ion: 43 Resp: 608

Ion Ratio Lower Upper

43 100

72 0.0 23.0 34.6#



#29

Tetrahydrofuran

Concen: 1.488 ug/l

RT: 5.15 min Scan# 655

Delta R.T. 0.02 min

Lab File: VX010912.D

Acq: 16 Jul 2019 17:29

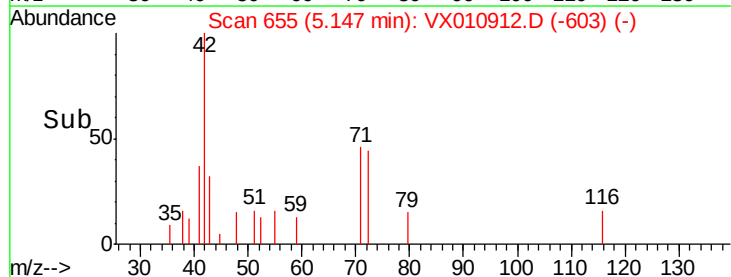
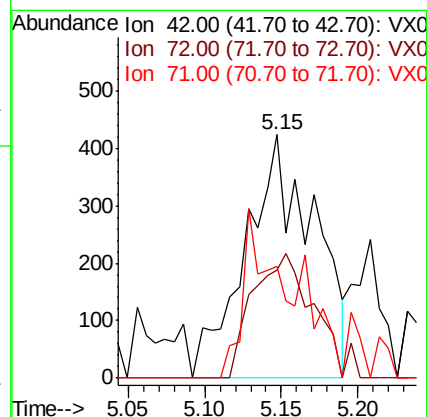
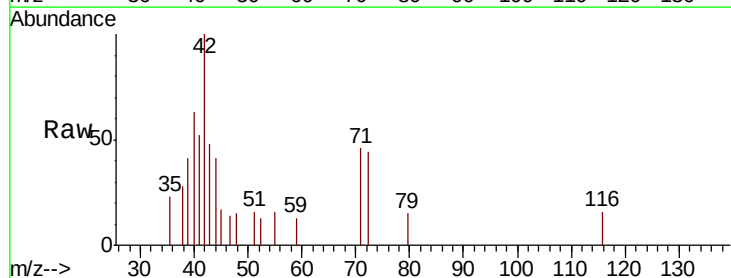
Tgt Ion: 42 Resp: 1322

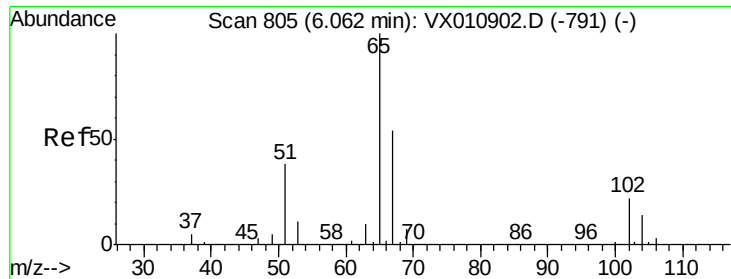
Ion Ratio Lower Upper

42 100

72 45.6 39.8 59.8

71 0.0 37.0 55.4#

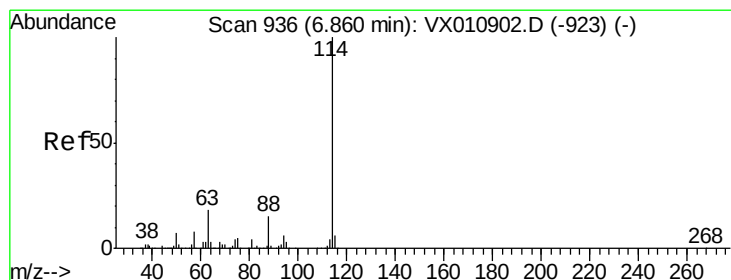
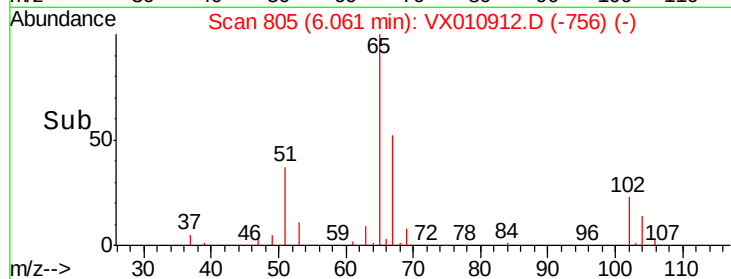
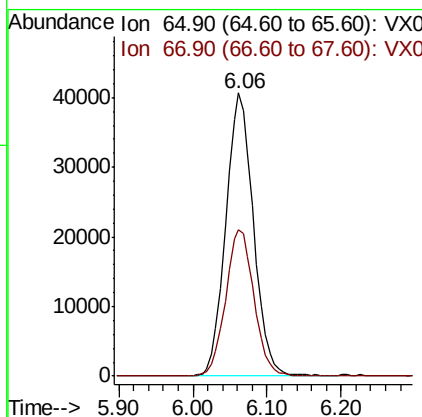
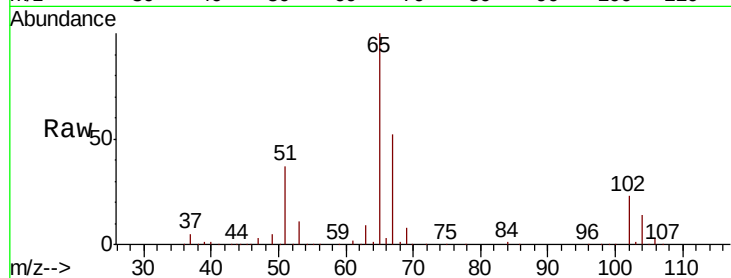




#33
 1,2-Dichloroethane-d4
 Concen: 48.717 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. -0.00 min
 Lab File: VX010912.D
 Acq: 16 Jul 2019 17:29

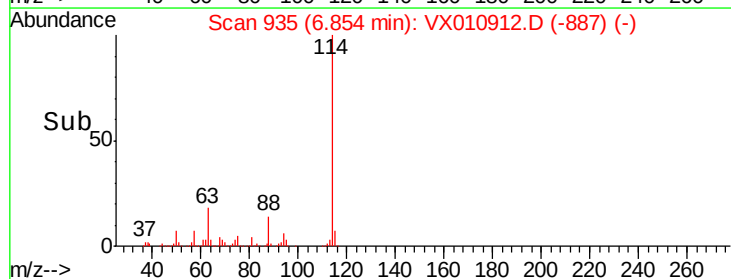
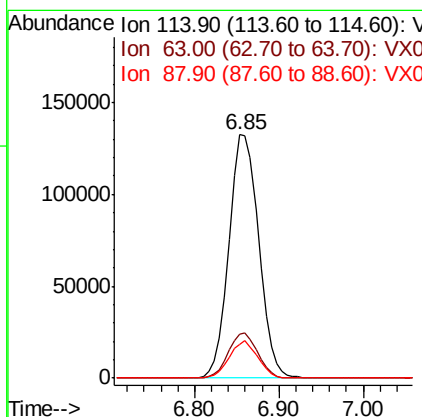
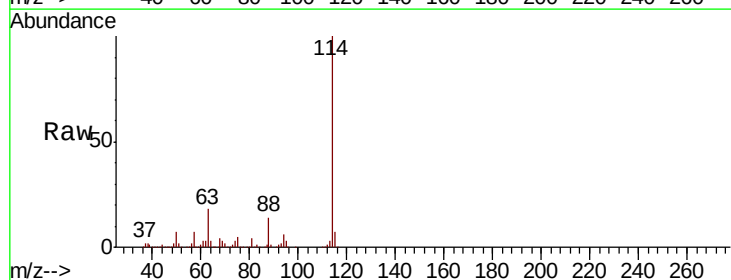
Instrument :
 MSVOA_X
 ClientSampleId :
 FB071019

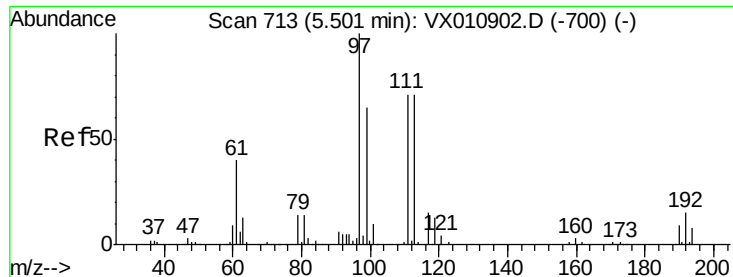
Tot Ion: 65 Resp: 105419
 Ion Ratio Lower Upper
 65 100
 67 52.9 0.0 107.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 935
 Delta R.T. -0.01 min
 Lab File: VX010912.D
 Acq: 16 Jul 2019 17:29

Tgt Ion: 114 Resp: 317844
 Ion Ratio Lower Upper
 114 100
 63 17.9 0.0 35.6
 88 13.9 0.0 29.8

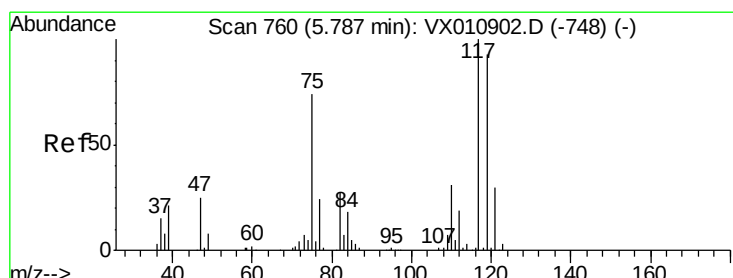
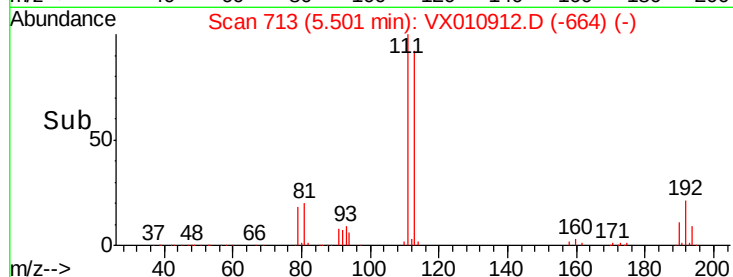
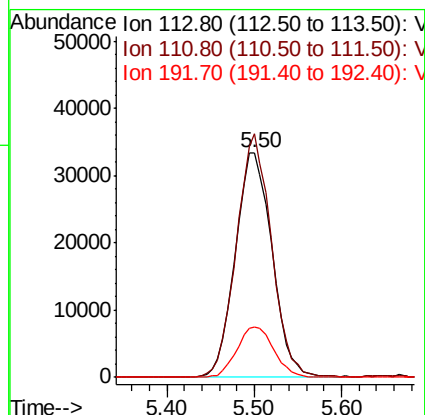
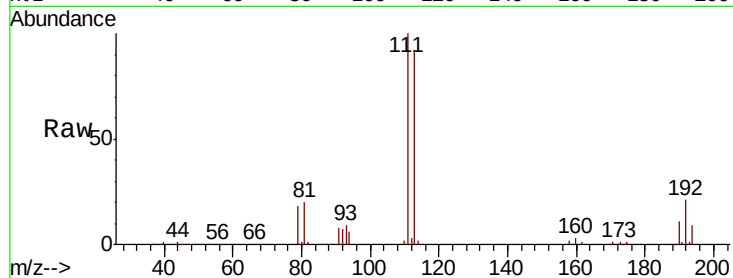




#35
Dibromofluoromethane
Concen: 48.417 ug/l
RT: 5.50 min Scan# 713
Delta R.T. -0.00 min
Lab File: VX010912.D
Acq: 16 Jul 2019 17:29

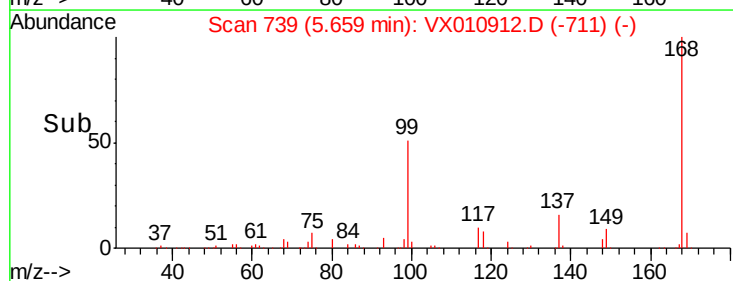
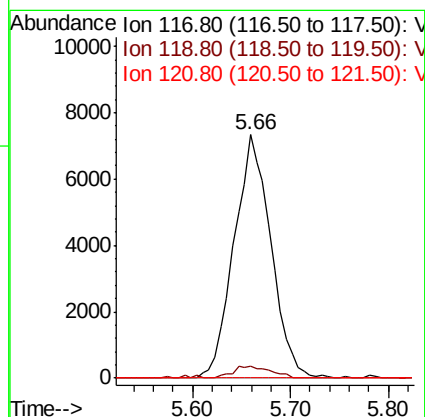
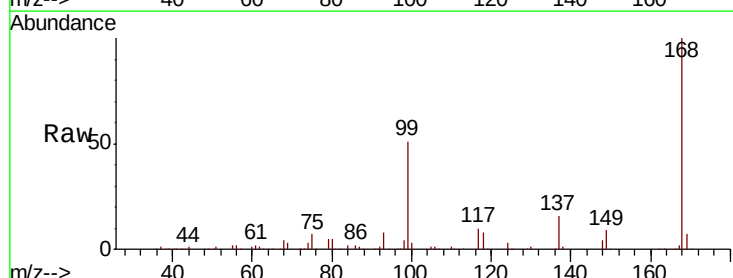
Instrument :
MSVOA_X
ClientSampleId :
FB071019

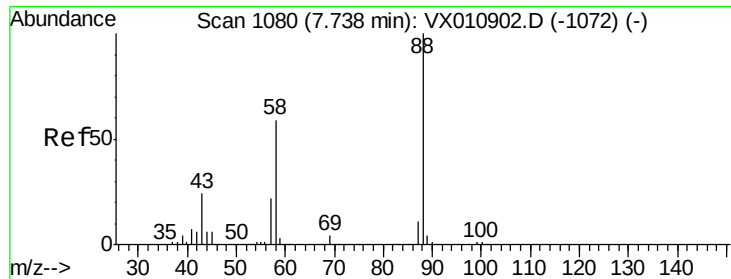
Tot Ion:113 Resp: 97677
Ion Ratio Lower Upper
113 100
111 103.3 82.3 123.5
192 22.6 17.4 26.2



#38
Carbon Tetrachloride
Concen: 7.035 ug/l
RT: 5.66 min Scan# 739
Delta R.T. -0.13 min
Lab File: VX010912.D
Acq: 16 Jul 2019 17:29

Tgt Ion:117 Resp: 19139
Ion Ratio Lower Upper
117 100
119 4.9 74.2 111.2#
121 0.0 24.2 36.2#

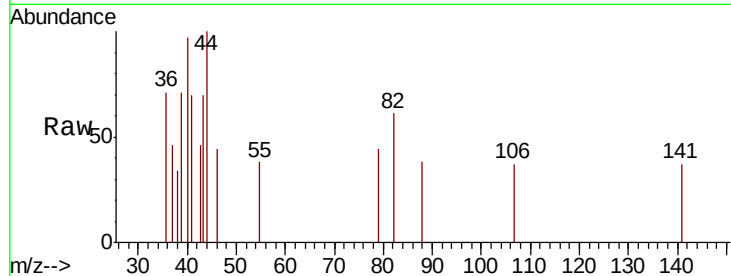




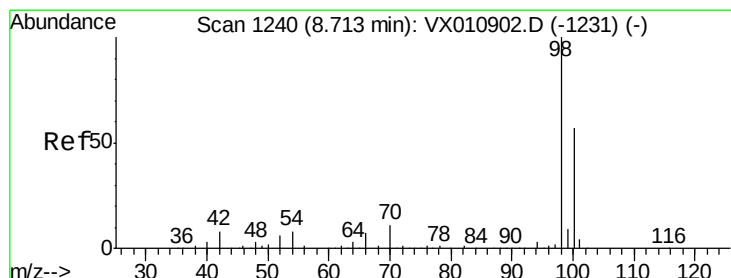
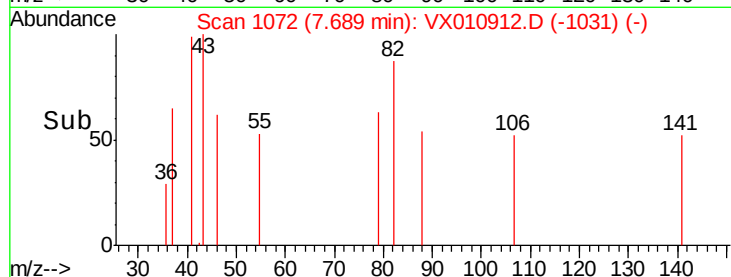
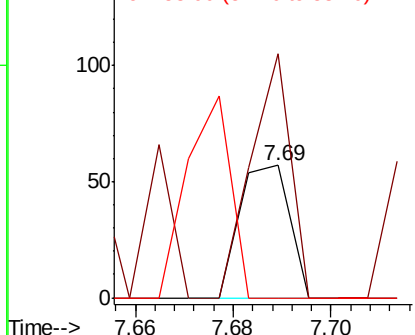
#49
1,4-Dioxane
Concen: 0.684 ug/l
RT: 7.69 min Scan# 1072
Delta R.T. -0.05 min
Lab File: VX010912.D
Acq: 16 Jul 2019 17:29

Instrument :
MSVOA_X
ClientSampleId :
FB071019

Tot Ion: 88 Resp: 41
Ion Ratio Lower Upper
88 100
43 143.9 22.9 34.3#
58 131.7 49.8 74.8#

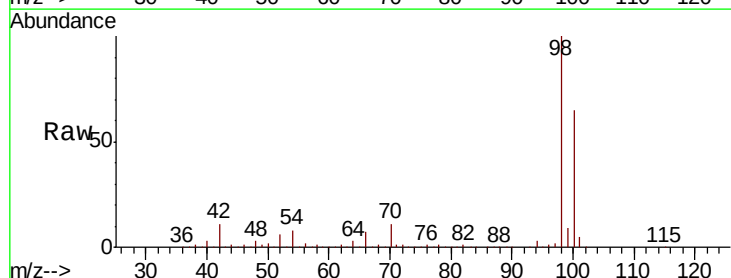


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

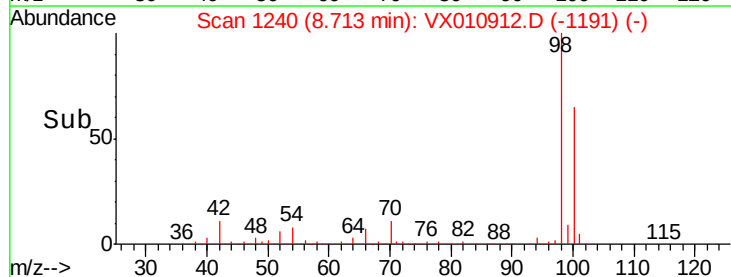
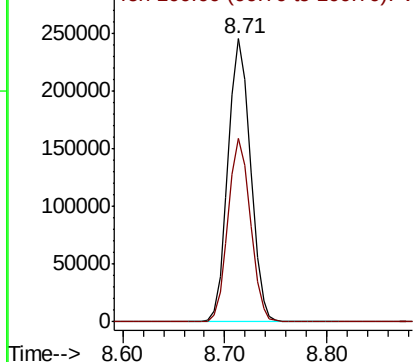


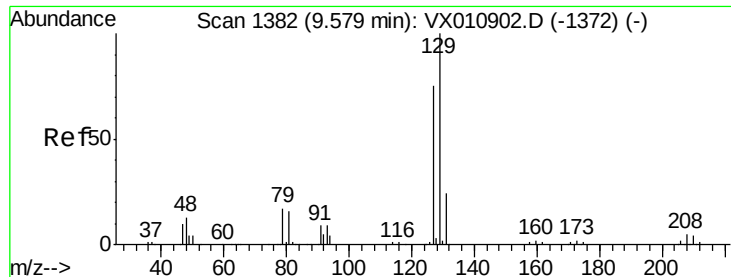
#50
Toluene-d8
Concen: 49.565 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX010912.D
Acq: 16 Jul 2019 17:29

Tgt Ion: 98 Resp: 375043
Ion Ratio Lower Upper
98 100
100 64.2 50.6 75.8



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





#60

Dibromochloromethane

Concen: 2.603 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX010912.D

Acq: 16 Jul 2019 17:29

Instrument :

MSVOA_X

ClientSampleId :

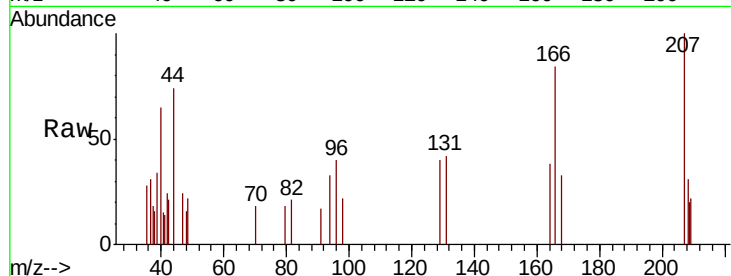
FB071019

Tot Ion:129 Resp: 198

Ion Ratio Lower Upper

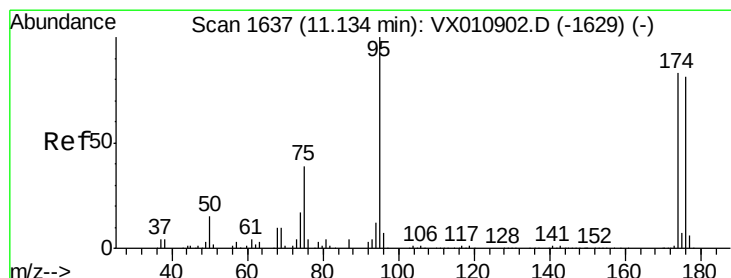
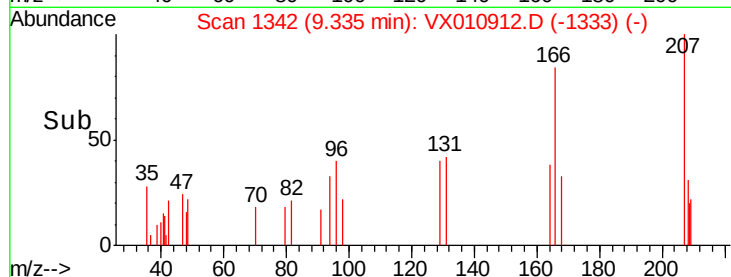
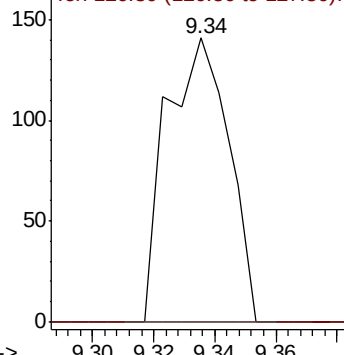
129 100

127 0.0 38.6 115.8#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 46.119 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX010912.D

Acq: 16 Jul 2019 17:29

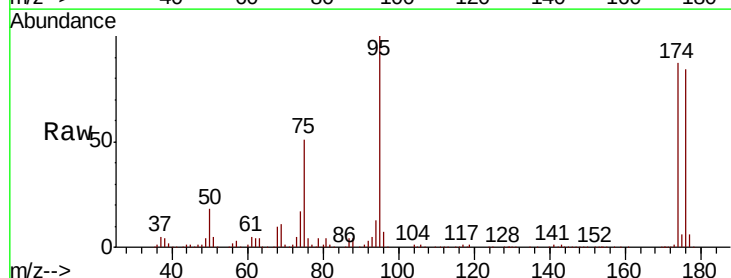
Tgt Ion: 95 Resp: 128269

Ion Ratio Lower Upper

95 100

174 91.9 0.0 180.6

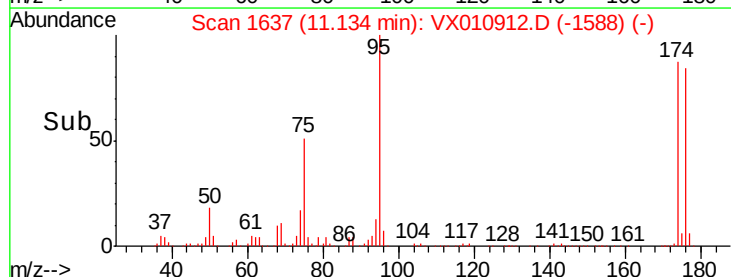
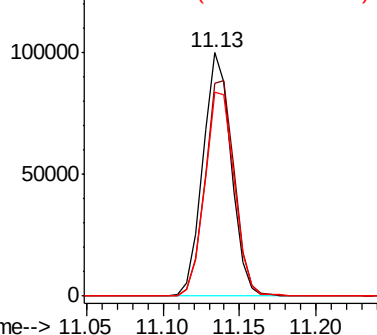
176 87.7 0.0 173.8

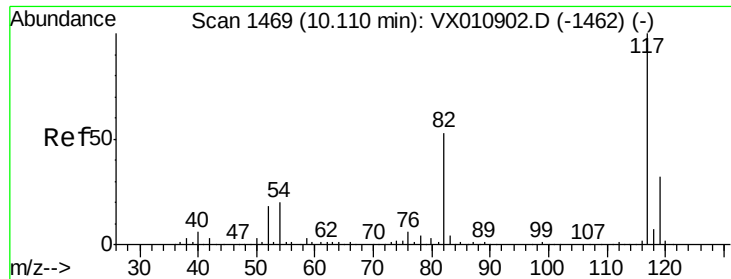


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

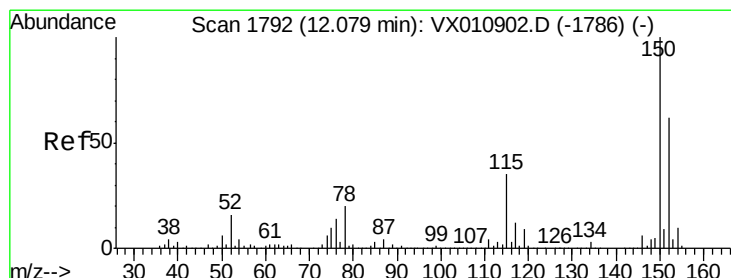
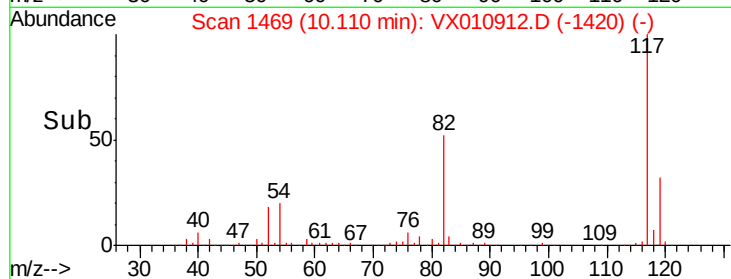
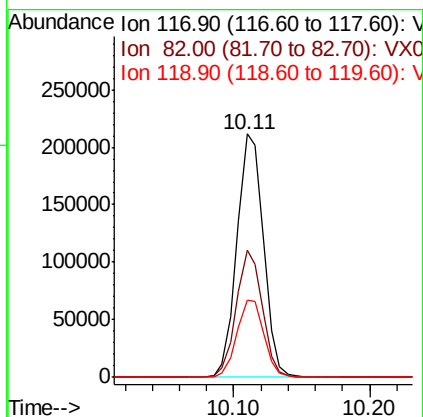
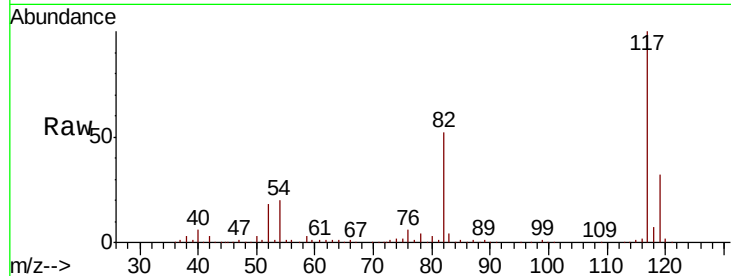




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX010912.D
Acq: 16 Jul 2019 17:29

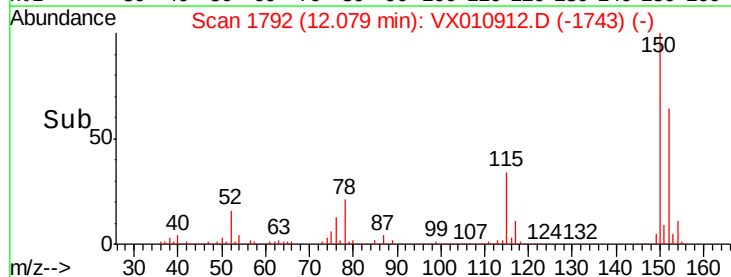
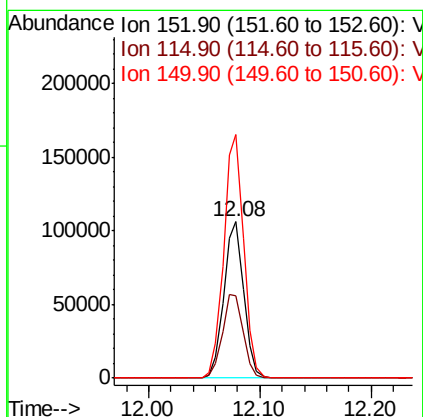
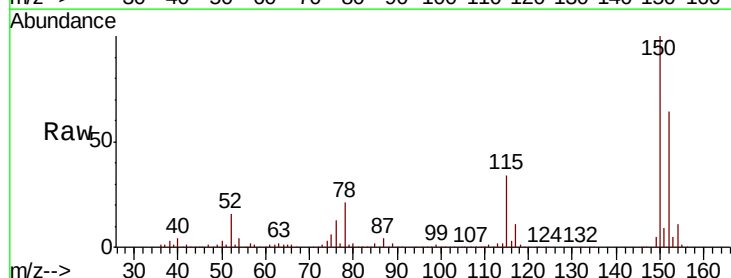
Instrument :
MSVOA_X
ClientSampled :
FB071019

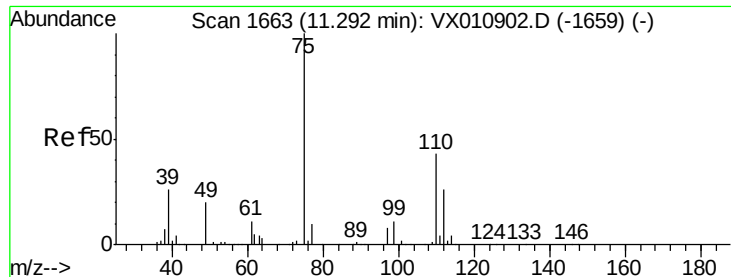
Tot Ion:117 Resp: 287799
Ion Ratio Lower Upper
117 100
82 52.4 42.6 63.8
119 31.7 25.9 38.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX010912.D
Acq: 16 Jul 2019 17:29

Tgt Ion:152 Resp: 131023
Ion Ratio Lower Upper
152 100
115 56.0 39.7 119.1
150 155.7 0.0 345.6





#76

1,2,3-Trichloropropane

Concen: 27.117 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010912.D

Acq: 16 Jul 2019 17:29

Instrument :

MSVOA_X

ClientSampleId :

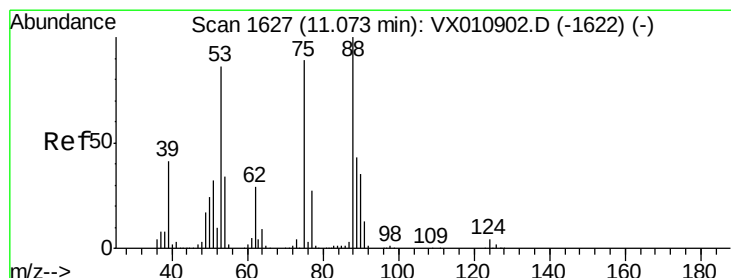
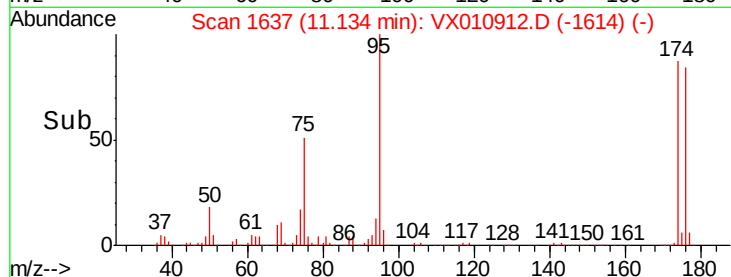
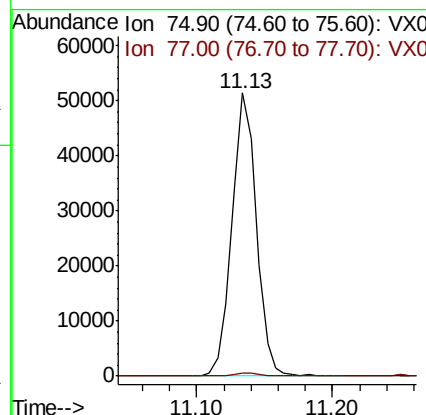
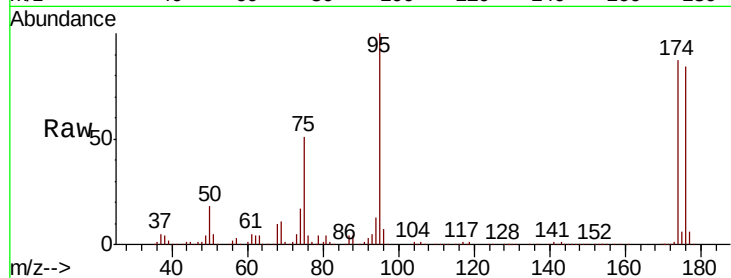
FB071019

Tot Ion: 75 Resp: 64116

Ion Ratio Lower Upper

75 100

77 1.3 21.3 64.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 67.215 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010912.D

Acq: 16 Jul 2019 17:29

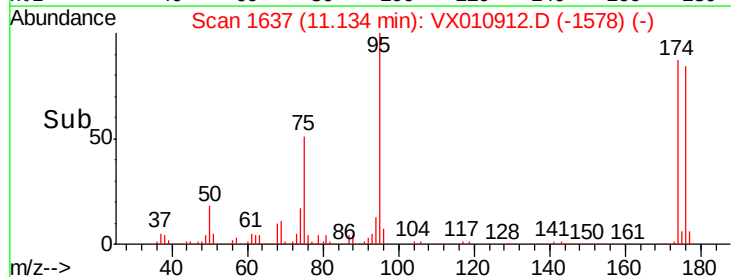
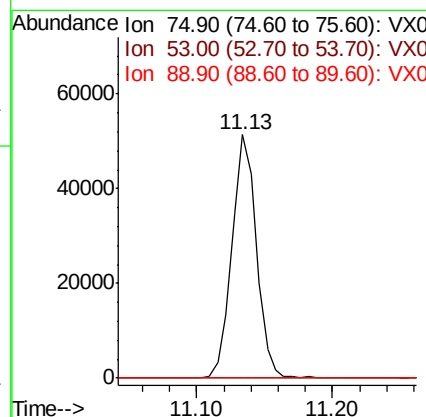
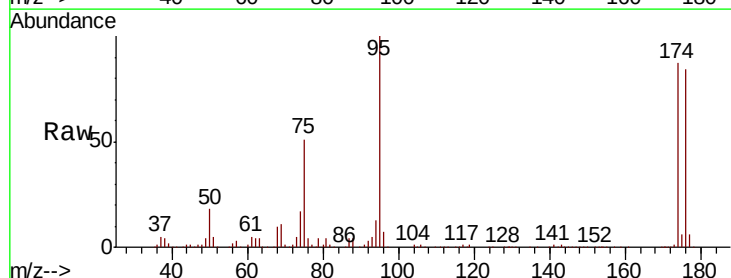
Tgt Ion: 75 Resp: 64116

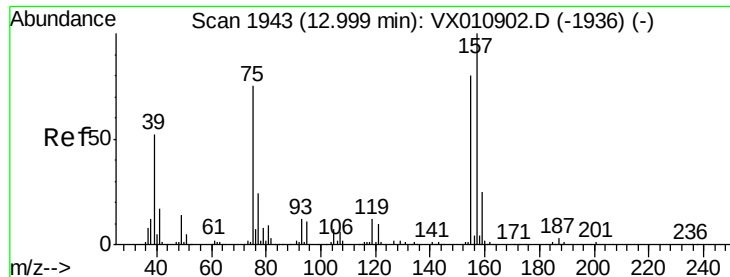
Ion Ratio Lower Upper

75 100

53 0.2 76.7 115.1#

89 0.0 38.5 57.7#





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.930 ug/l

RT: 12.97 min Scan# 1939

Delta R.T. -0.02 min

Lab File: VX010912.D

Acq: 16 Jul 2019 17:29

Instrument :

MSVOA_X

ClientSampled :

FB071019

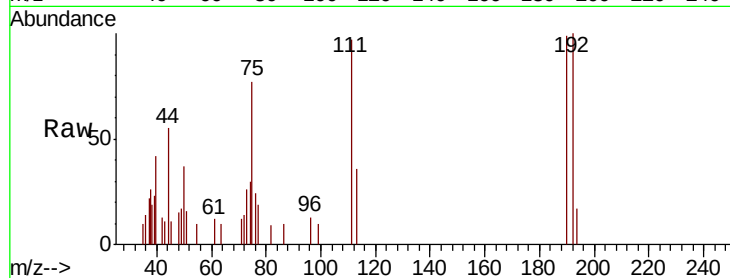
Tot Ion: 75 Resp: 563

Ion Ratio Lower Upper

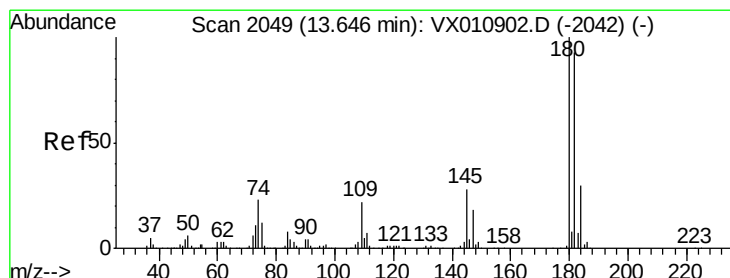
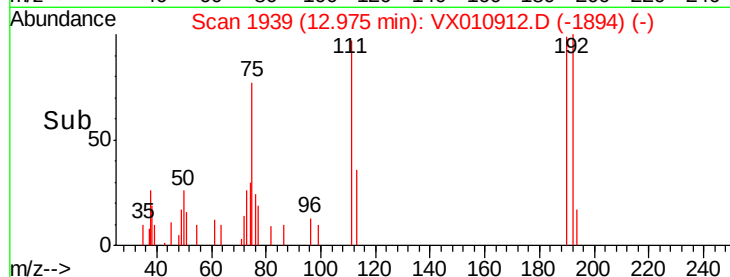
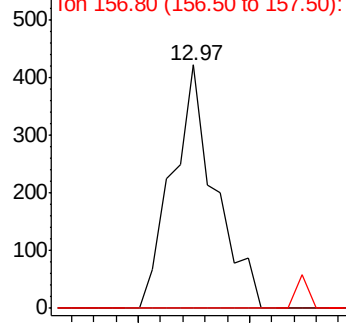
75 100

155 0.0 48.7 146.1#

157 0.0 62.5 187.6#



Abundance Ion 74.90 (74.60 to 75.60): VX010912.D (-1894) (-)



#93

1,2,4-Trichlorobenzene

Concen: 0.313 ug/l

RT: 13.65 min Scan# 2049

Delta R.T. -0.00 min

Lab File: VX010912.D

Acq: 16 Jul 2019 17:29

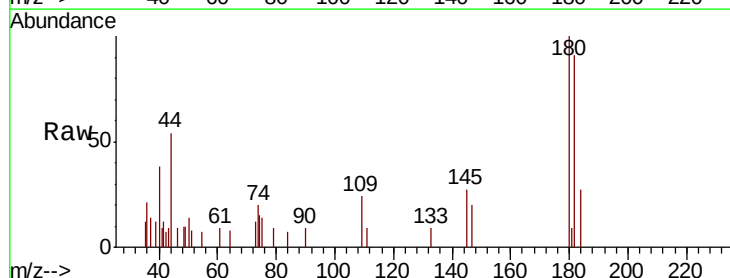
Tgt Ion: 180 Resp: 891

Ion Ratio Lower Upper

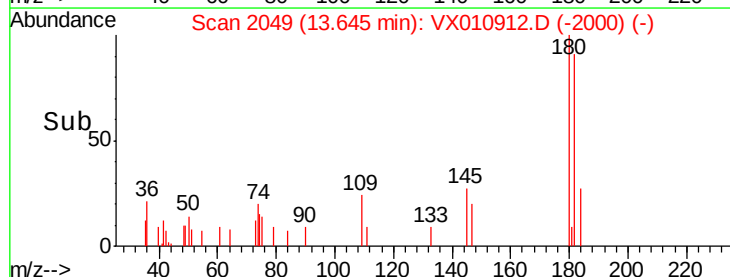
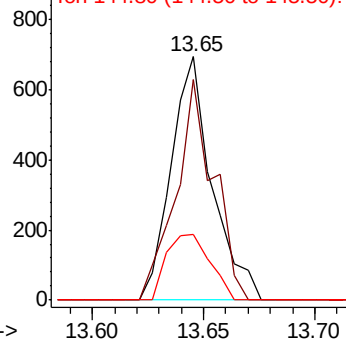
180 100

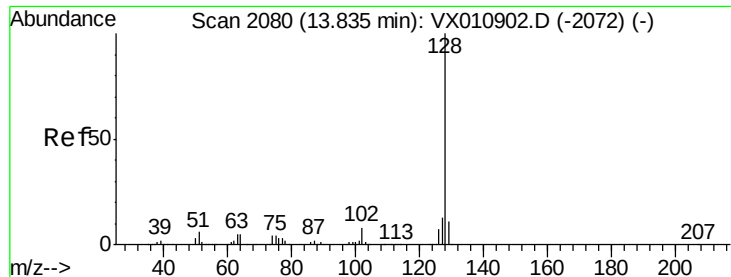
182 83.8 47.1 141.3

145 28.5 14.8 44.4



Abundance Ion 179.80 (179.50 to 180.50): VX010912.D (-2000) (-)

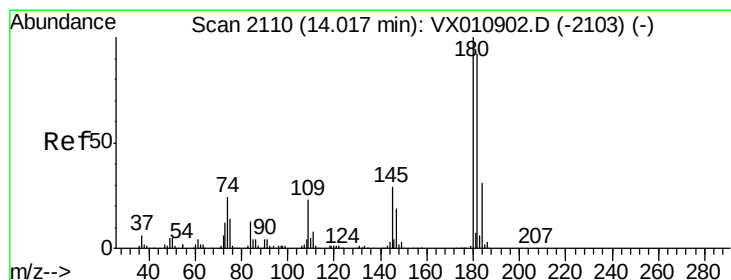
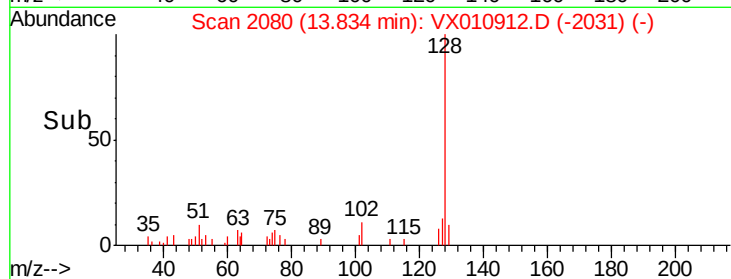
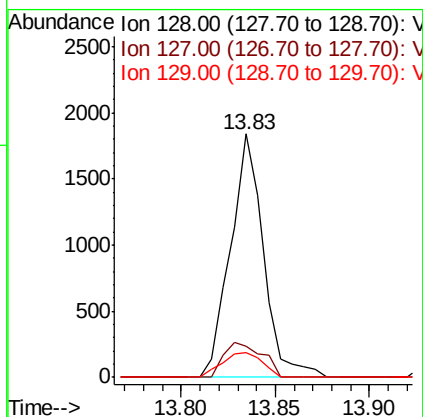
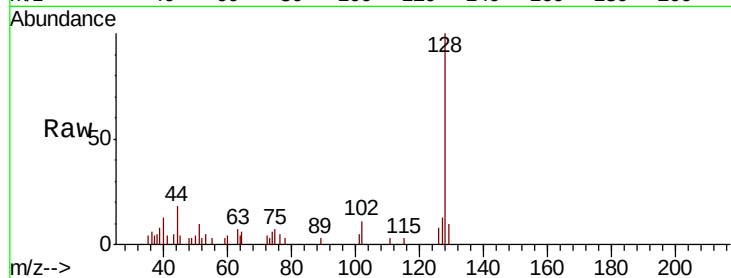




#95
Naphthalene
Concen: 0.266 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. -0.00 min
Lab File: VX010912.D
Acq: 16 Jul 2019 17:29

Instrument :
MSVOA_X
ClientSampleId :
FB071019

Tot Ion:128 Resp: 2238
Ion Ratio Lower Upper
128 100
127 16.5 10.4 15.6#
129 12.2 8.9 13.3



#96
1,2,3-Trichlorobenzene
Concen: 0.250 ug/l
RT: 14.01 min Scan# 2109
Delta R.T. -0.01 min
Lab File: VX010912.D
Acq: 16 Jul 2019 17:29

Tgt Ion:180 Resp: 707
Ion Ratio Lower Upper
180 100
182 98.2 47.4 142.3
145 33.5 15.1 45.3

