

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061920\
 Data File : VX016891.D
 Acq On : 19 Jun 2020 19:39
 Operator : JC/SP
 Sample : L3020-25
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 FB_061720

Quant Time: Jun 22 01:43:01 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061820W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 19 12:07:48 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	247745	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	397088	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	407845	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	215422	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	142517	47.83	ug/l	0.00
Spiked Amount			Recovery	=	95.66%	
35) Dibromofluoromethane	5.46	113	123464	48.60	ug/l	0.00
Spiked Amount			Recovery	=	97.20%	
50) Toluene-d8	8.70	98	561058	55.21	ug/l	0.00
Spiked Amount			Recovery	=	110.42%	
62) 4-Bromofluorobenzene	11.12	95	217727	55.92	ug/l	0.00
Spiked Amount			Recovery	=	111.84%	

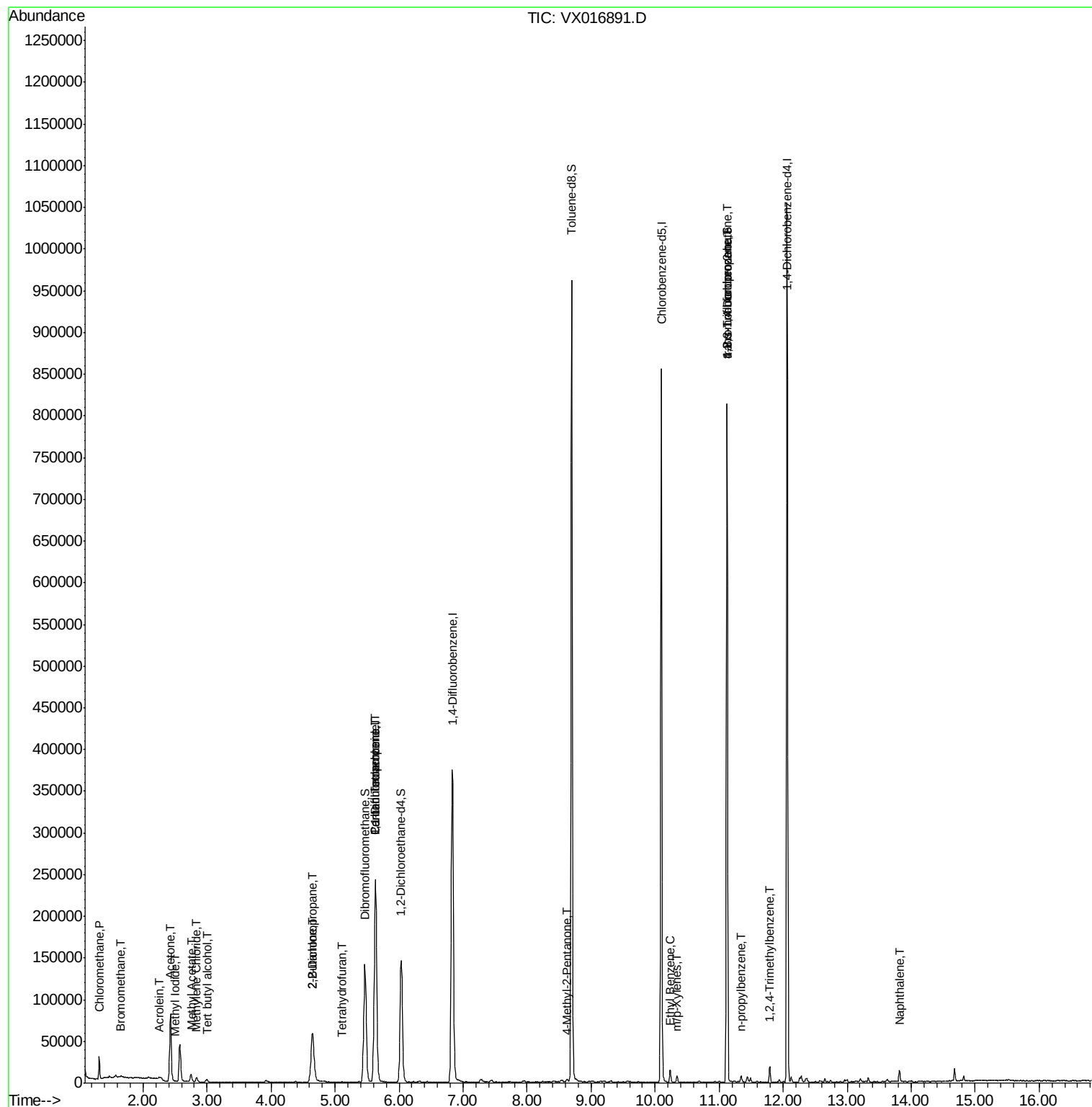
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	16227	5.264	ug/l	97
5) Bromomethane	1.64	94	811	0.388	ug/l #	54
10) Methyl Iodide	2.51	142	644	0.261	ug/l #	83
11) Tert butyl alcohol	3.00	59	2556	5.074	ug/l #	72
13) Acrolein	2.26	56	154	0.504	ug/l #	1
16) Acetone	2.42	43	15747	14.558	ug/l	99
18) Methyl Acetate	2.75	43	10163	3.695	ug/l	100
20) Methylene Chloride	2.84	84	2935	1.132	ug/l	95
25) 2-Butanone	4.64	43	5278	3.546	ug/l #	74
26) 2,2-Dichloropropane	4.65	77	5284	1.346	ug/l #	52
29) Tetrahydrofuran	5.11	42	756	0.806	ug/l #	63
36) 1,1-Dichloropropene	5.63	75	16577	4.521	ug/l #	49
38) Carbon Tetrachloride	5.63	117	22958	5.581	ug/l #	16
51) 4-Methyl-2-Pentanone	8.62	43	2292	0.674	ug/l	99
67) Ethyl Benzene	10.24	91	8041	0.577	ug/l	100
68) m/p-Xylenes	10.34	106	1895	0.349	ug/l	97
76) 1,2,3-Trichloropropane	11.12	75	103184	26.227	ug/l #	36
78) n-propylbenzene	11.34	91	4064	0.263	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.12	75	103184	64.225	ug/l #	14
84) 1,2,4-Trimethylbenzene	11.79	105	8015	0.650	ug/l	91
95) Naphthalene	13.82	128	9515	0.723	ug/l	98

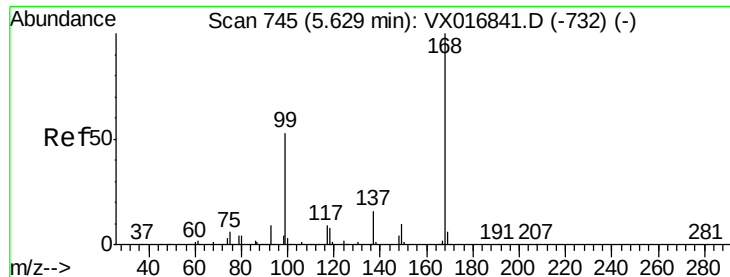
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jun 22 01:43:01 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X061820W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 19 12:07:48 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.00 min

Lab File: VX016891.D

Acq: 19 Jun 2020 19:39

Instrument :

MSVOA_X

ClientSampleId :

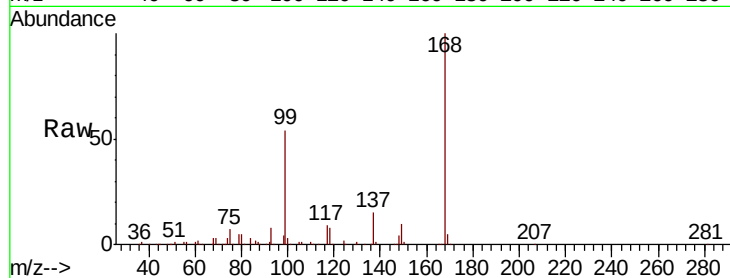
FB_061720

Tot Ion:168 Resp: 247745

Ion Ratio Lower Upper

168 100

99 53.6 42.2 63.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

80000

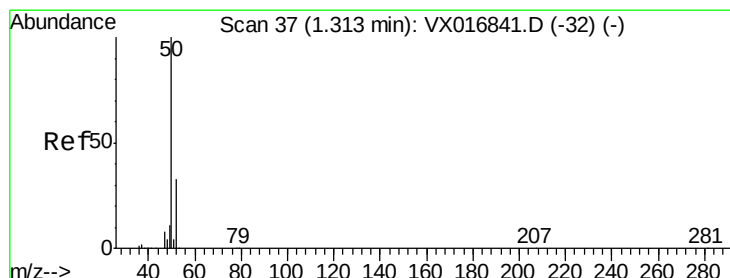
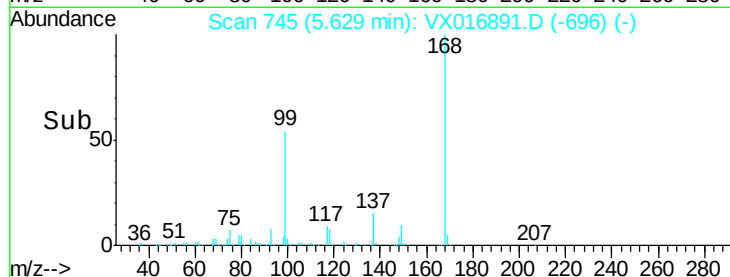
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 5.264 ug/l

RT: 1.31 min Scan# 37

Delta R.T. 0.00 min

Lab File: VX016891.D

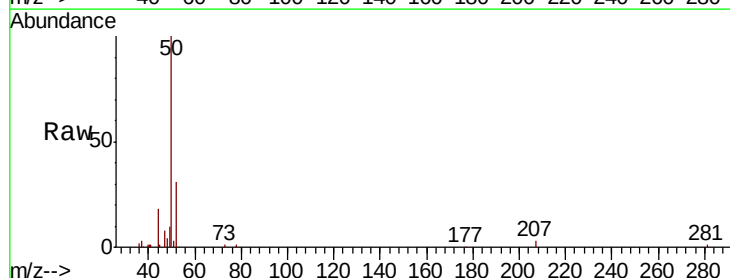
Acq: 19 Jun 2020 19:39

Tgt Ion: 50 Resp: 16227

Ion Ratio Lower Upper

50 100

52 30.9 26.1 39.1



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

20000

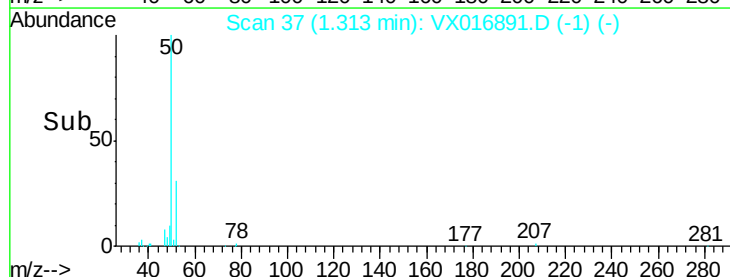
15000

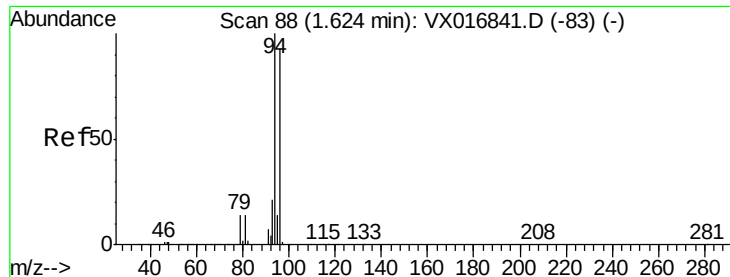
10000

5000

0

Time-->





#5

Bromomethane

Concen: 0.388 ug/l

RT: 1.64 min Scan# 91

Delta R.T. 0.02 min

Lab File: VX016891.D

Acq: 19 Jun 2020 19:39

Instrument :

MSVOA_X

ClientSampleId :

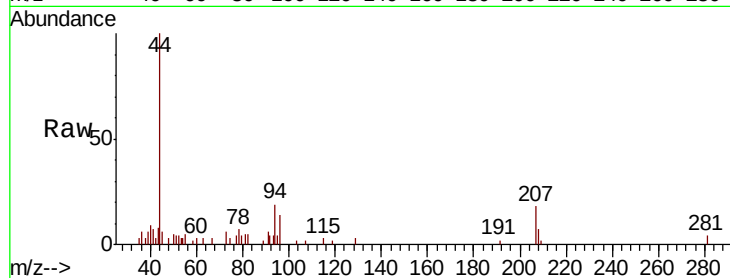
FB_061720

Tot Ion: 94 Resp: 811

Ion Ratio Lower Upper

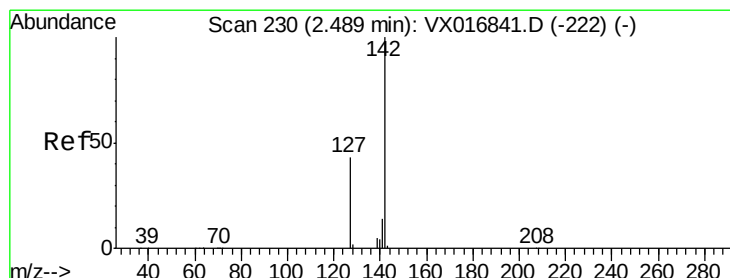
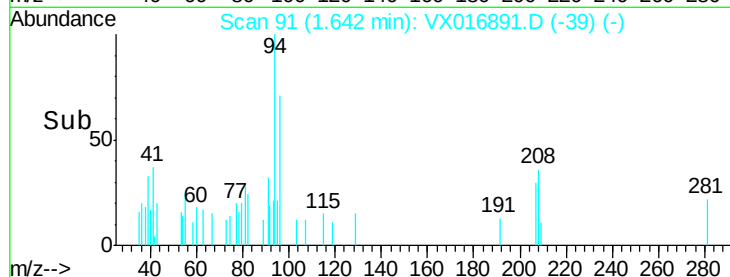
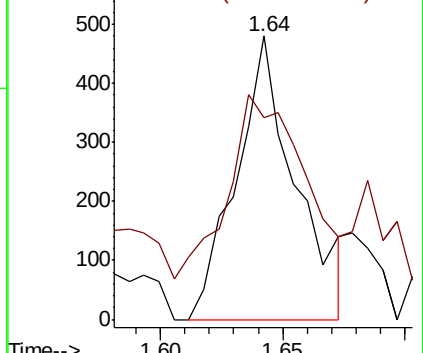
94 100

96 49.2 74.4 111.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#10

Methyl Iodide

Concen: 0.261 ug/l

RT: 2.51 min Scan# 233

Delta R.T. 0.02 min

Lab File: VX016891.D

Acq: 19 Jun 2020 19:39

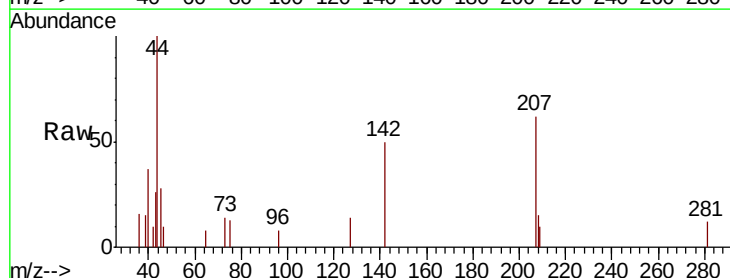
Tgt Ion: 142 Resp: 644

Ion Ratio Lower Upper

142 100

127 33.5 35.1 52.7#

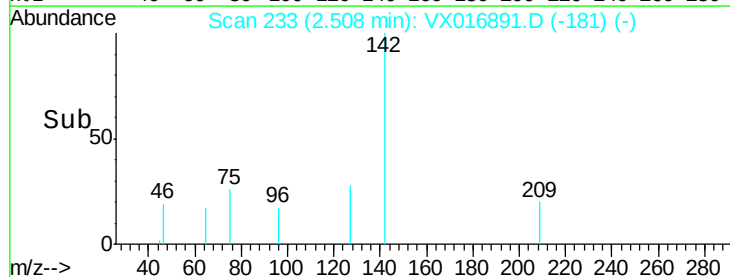
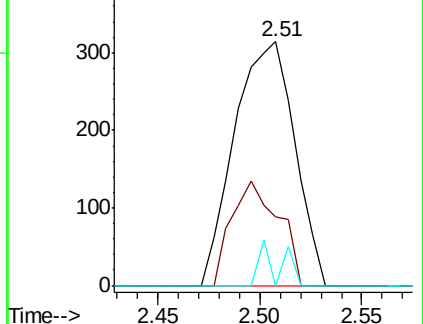
141 6.2 11.6 17.4#

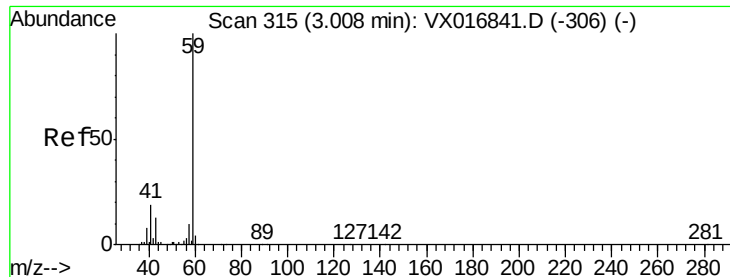


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



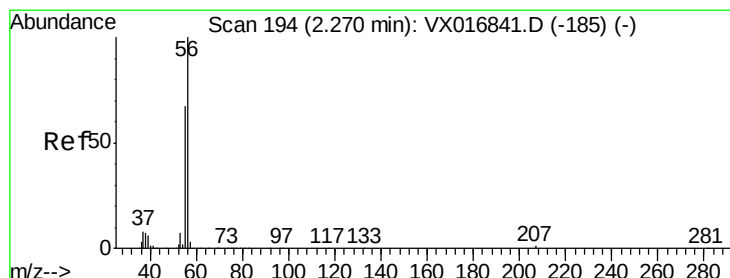
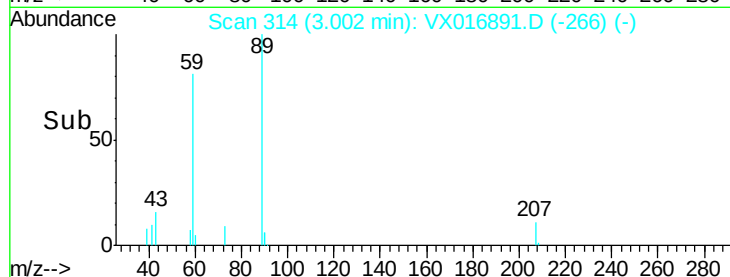
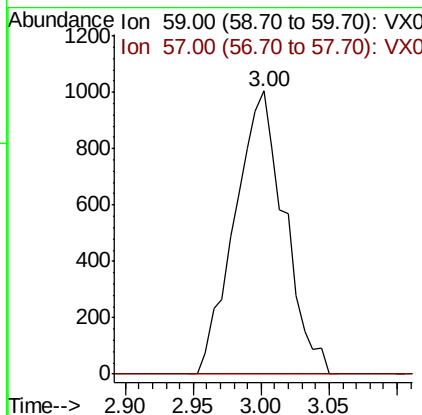
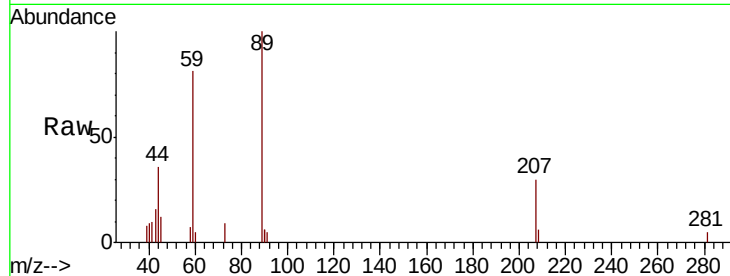


#11

Tert butyl alcohol
 Concen: 5.074 ug/l
 RT: 3.00 min Scan# 314
 Delta R.T. -0.01 min
 Lab File: VX016891.D
 Acq: 19 Jun 2020 19:39

Instrument :
 MSVOA_X
 ClientSampleId :
 FB_061720

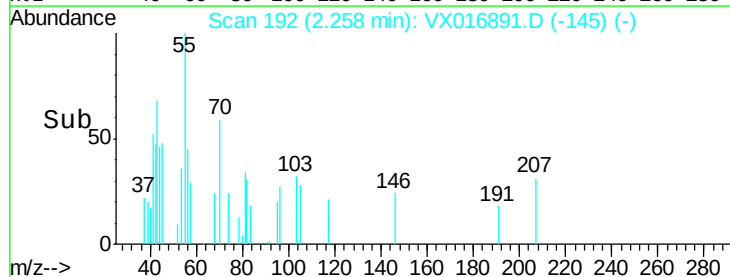
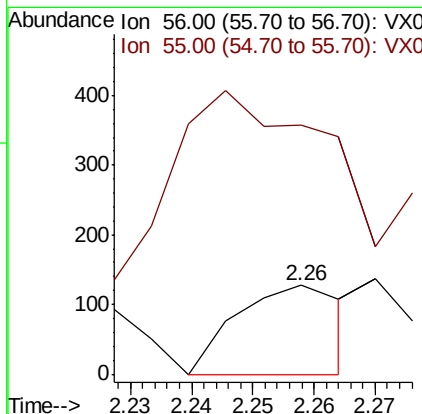
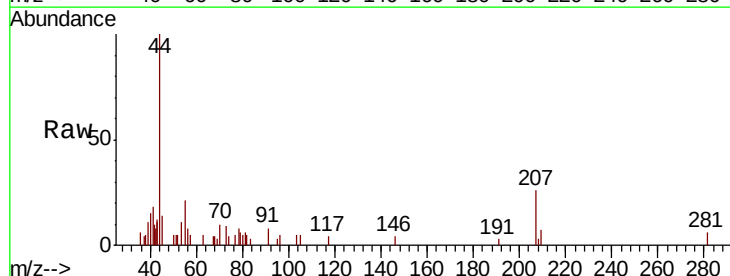
Tot Ion: 59 Resp: 2556
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.4 12.6#

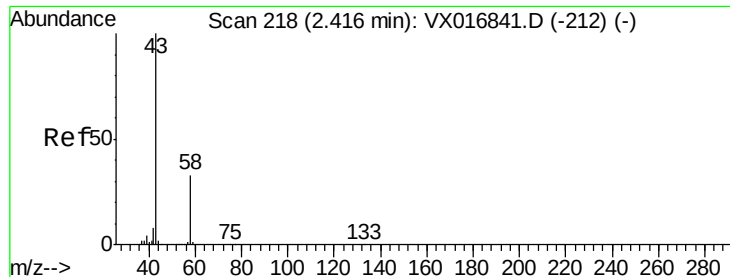


#13

Acrolein
 Concen: 0.504 ug/l
 RT: 2.26 min Scan# 192
 Delta R.T. -0.01 min
 Lab File: VX016891.D
 Acq: 19 Jun 2020 19:39

Tgt Ion: 56 Resp: 154
 Ion Ratio Lower Upper
 56 100
 55 850.6 55.7 83.5#





#16

Acetone

Concen: 14.558 ug/l

RT: 2.42 min Scan# 218

Delta R.T. 0.00 min

Lab File: VX016891.D

Acq: 19 Jun 2020 19:39

Instrument :

MSVOA_X

ClientSampled :

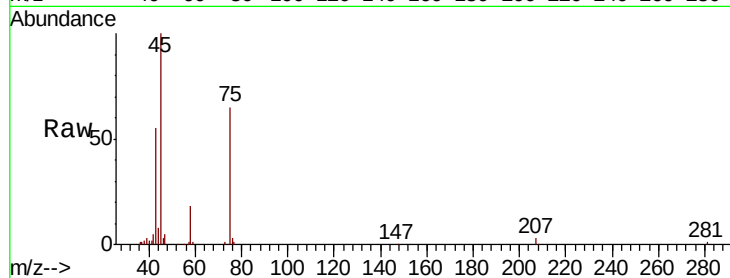
FB_061720

Tot Ion: 43 Resp: 15747

Ion Ratio Lower Upper

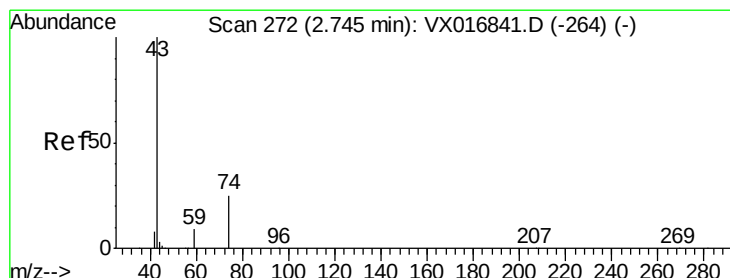
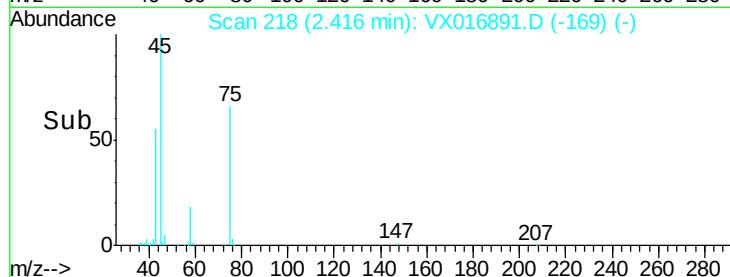
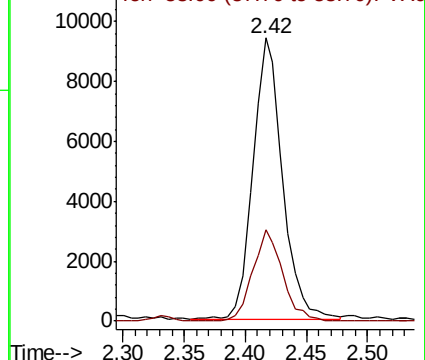
43 100

58 32.5 26.6 39.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 3.695 ug/l

RT: 2.75 min Scan# 273

Delta R.T. 0.01 min

Lab File: VX016891.D

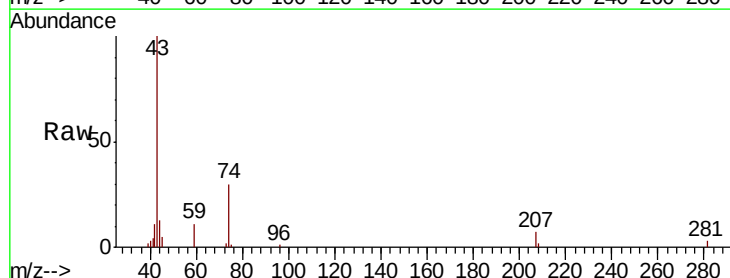
Acq: 19 Jun 2020 19:39

Tgt Ion: 43 Resp: 10163

Ion Ratio Lower Upper

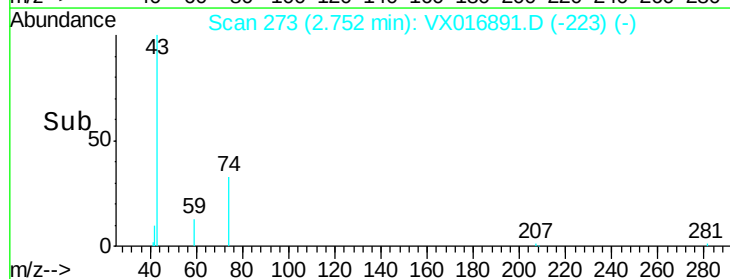
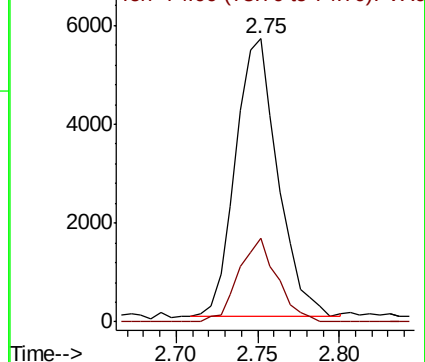
43 100

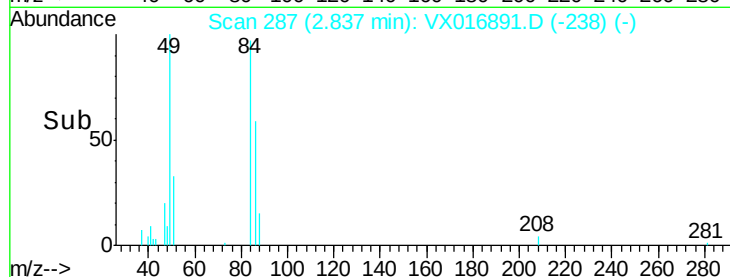
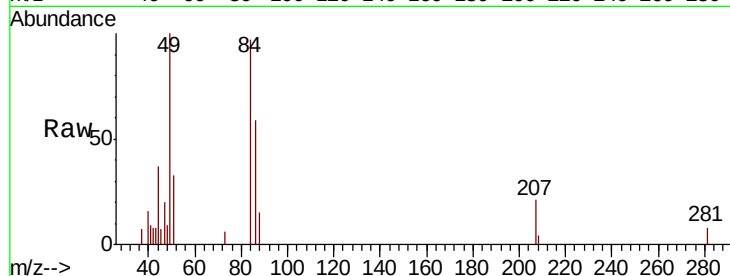
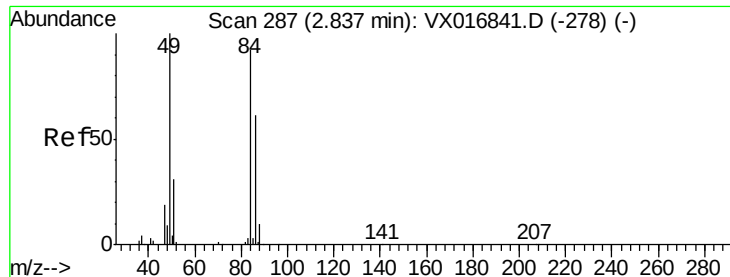
74 27.5 21.8 32.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

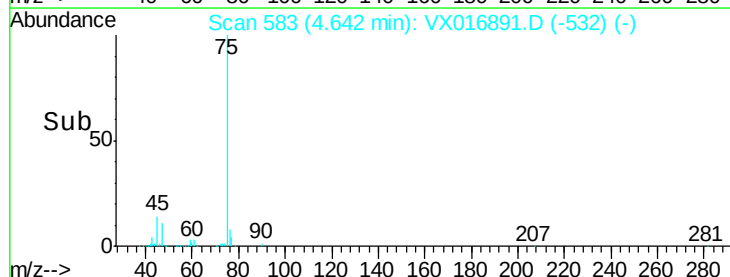
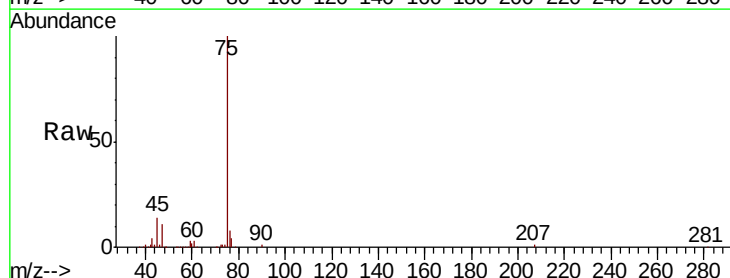
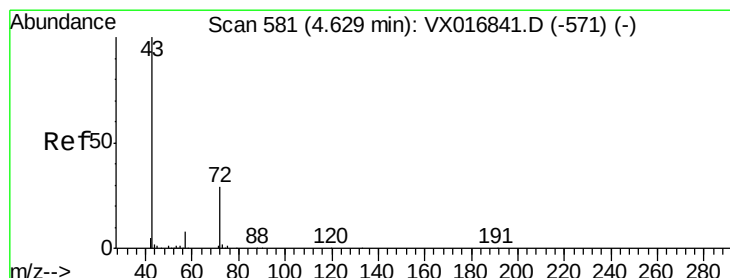
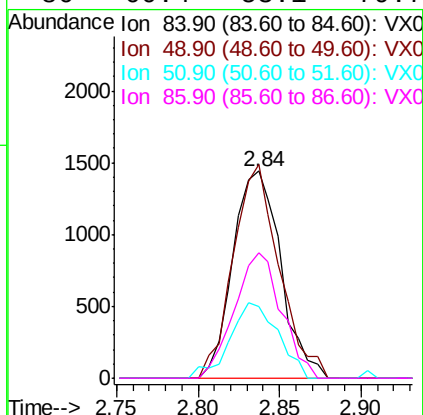




#20
Methylene Chloride
Concen: 1.132 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX016891.D
Acq: 19 Jun 2020 19:39

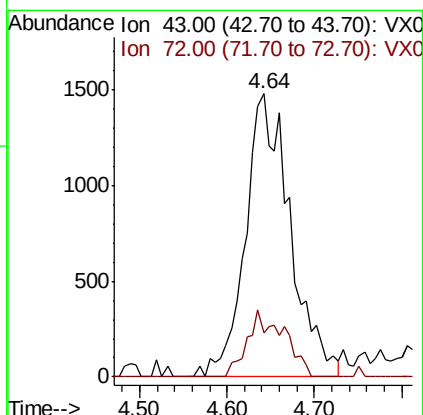
Instrument :
MSVOA_X
ClientSampleId :
FB_061720

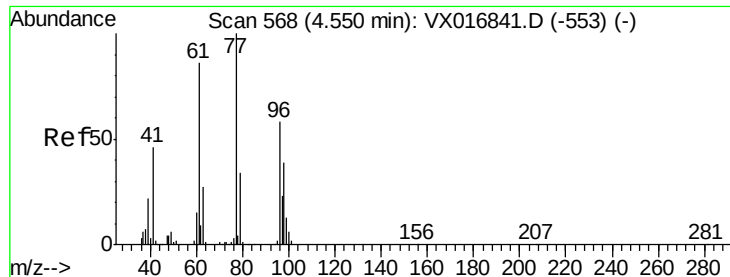
Tot Ion:	84	Resp:	2935
Ion	Ratio	Lower	Upper
84	100		
49	103.2	86.6	129.8
51	34.4	27.1	40.7
86	60.4	53.1	79.7



#25
2-Butanone
Concen: 3.546 ug/l
RT: 4.64 min Scan# 583
Delta R.T. 0.01 min
Lab File: VX016891.D
Acq: 19 Jun 2020 19:39

Tgt Ion:	43	Resp:	5278
Ion	Ratio	Lower	Upper
43	100		
72	15.6	23.5	35.3#





#26

2,2-Dichloropropane

Concen: 1.346 ug/l

RT: 4.65 min Scan# 584

Delta R.T. 0.10 min

Lab File: VX016891.D

Acq: 19 Jun 2020 19:39

Instrument :

MSVOA_X

ClientSampled :

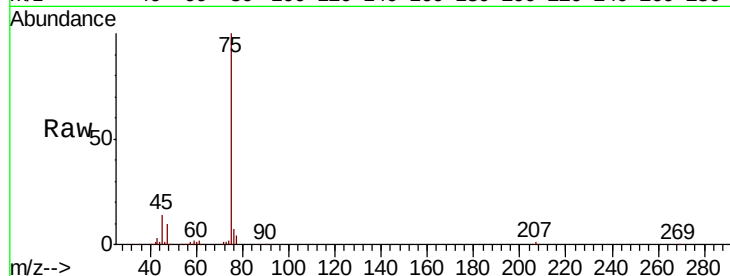
FB_061720

Tot Ion: 77 Resp: 5284

Ion Ratio Lower Upper

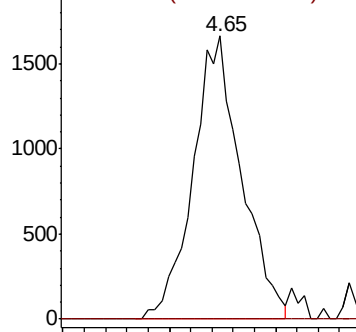
77 100

97 0.0 11.6 34.7#

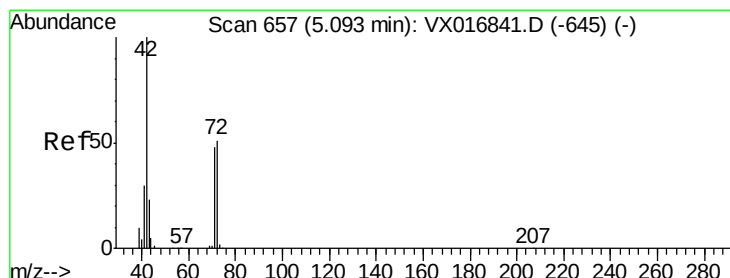
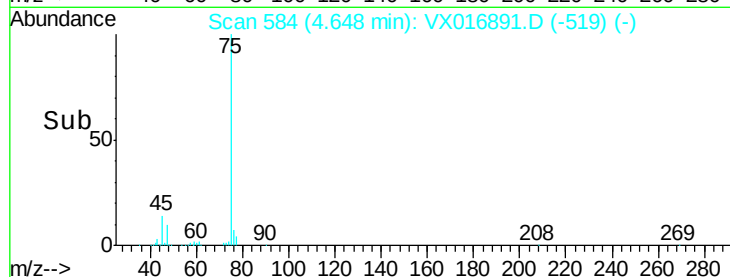


Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0



Time--> 4.50 4.60 4.70



#29

Tetrahydrofuran

Concen: 0.806 ug/l

RT: 5.11 min Scan# 660

Delta R.T. 0.02 min

Lab File: VX016891.D

Acq: 19 Jun 2020 19:39

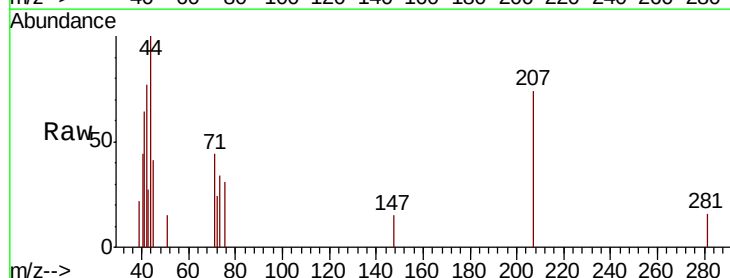
Tgt Ion: 42 Resp: 756

Ion Ratio Lower Upper

42 100

72 29.2 41.1 61.7#

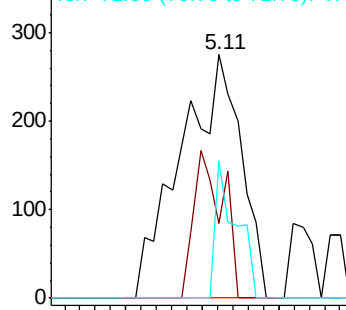
71 19.6 38.4 57.6#



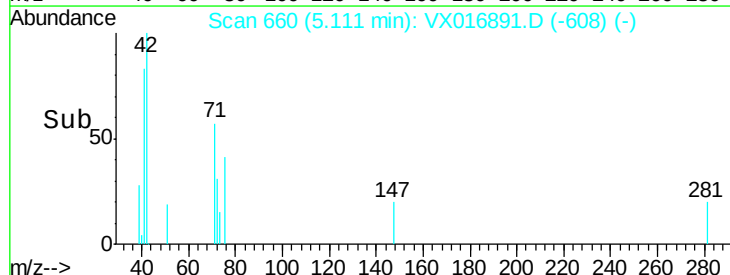
Abundance Ion 42.00 (41.70 to 42.70): VX0

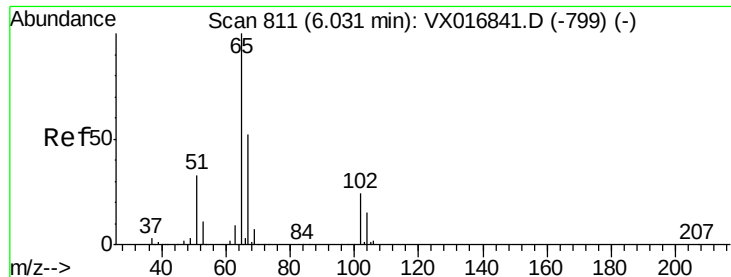
Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



Time--> 5.05 5.10 5.15

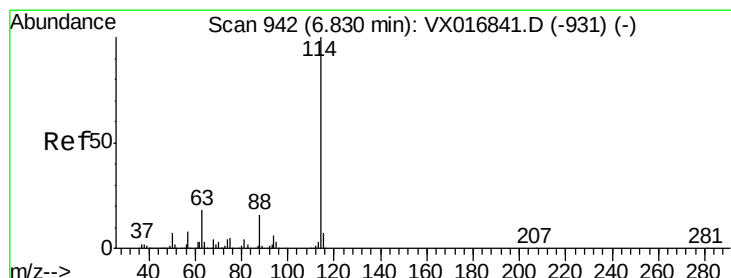
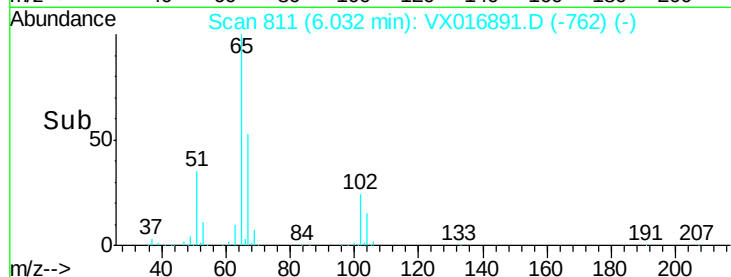
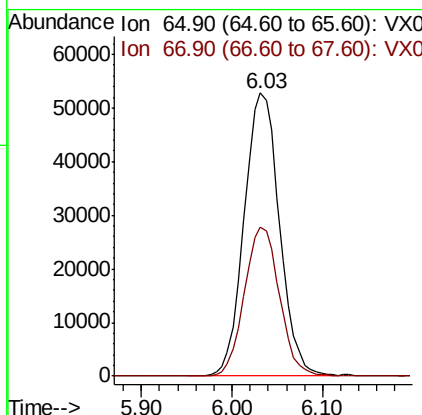
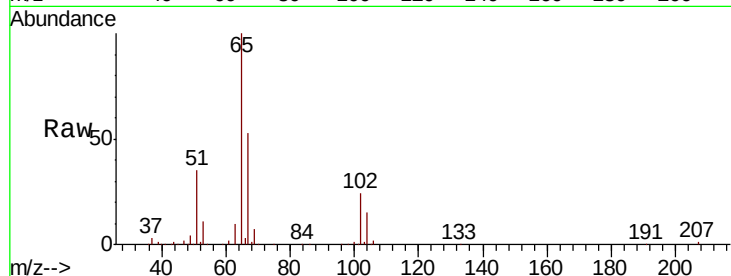




#33
 1,2-Dichloroethane-d4
 Concen: 47.831 ug/l
 RT: 6.03 min Scan# 811
 Delta R.T. 0.00 min
 Lab File: VX016891.D
 Acq: 19 Jun 2020 19:39

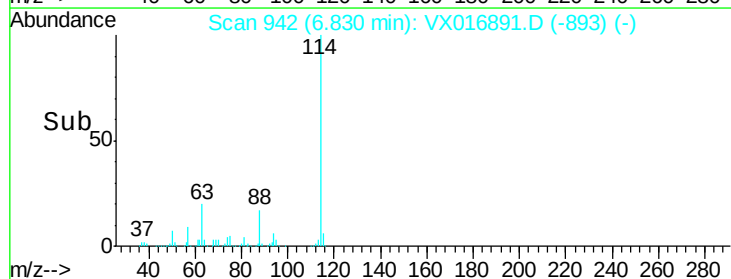
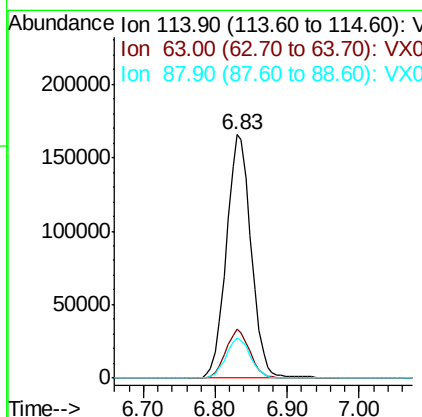
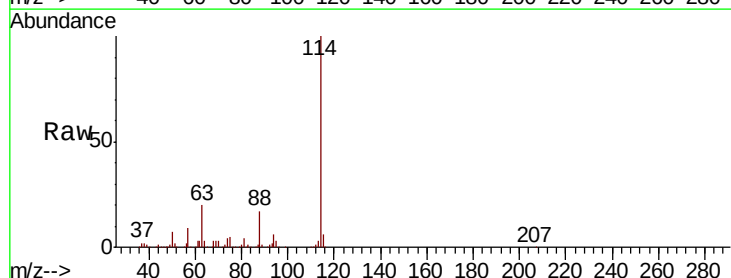
Instrument :
 MSVOA_X
 ClientSampleId :
 FB_061720

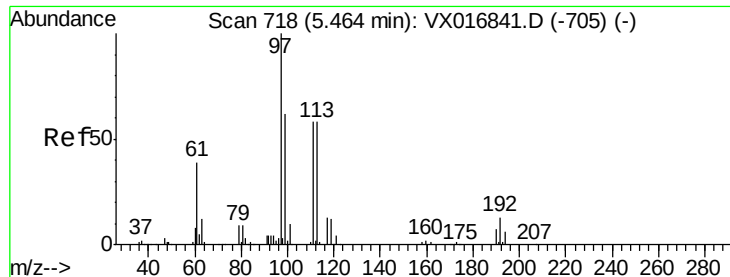
Tot Ion: 65 Resp: 142517
 Ion Ratio Lower Upper
 65 100
 67 52.3 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. 0.00 min
 Lab File: VX016891.D
 Acq: 19 Jun 2020 19:39

Tgt Ion: 114 Resp: 397088
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 37.0
 88 16.6 0.0 32.0

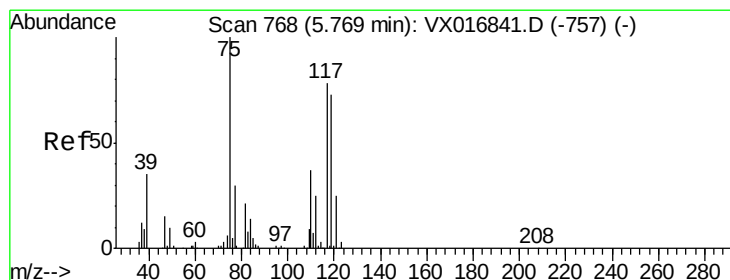
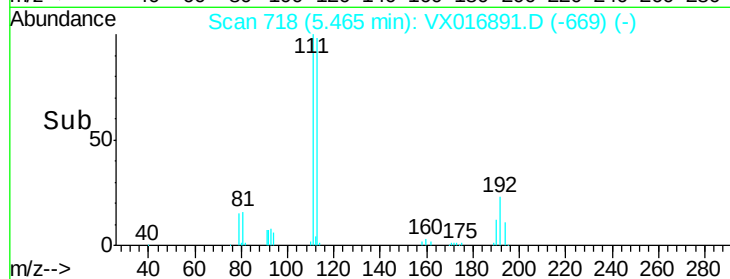
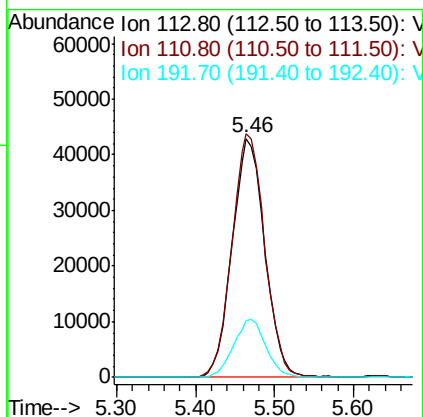
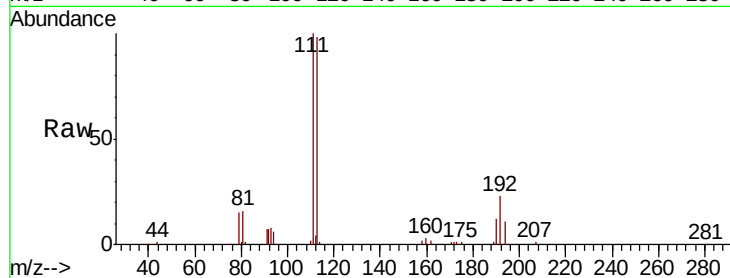




#35
 Dibromofluoromethane
 Concen: 48.605 ug/l
 RT: 5.46 min Scan# 718
 Delta R.T. 0.00 min
 Lab File: VX016891.D
 Acq: 19 Jun 2020 19:39

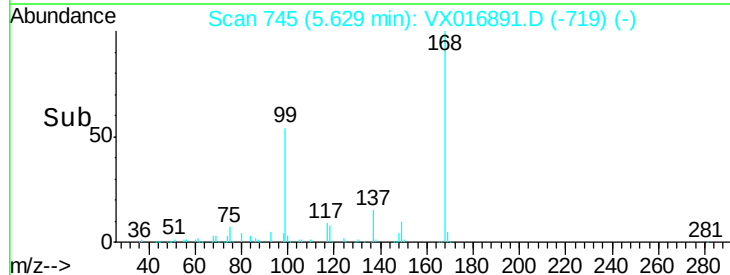
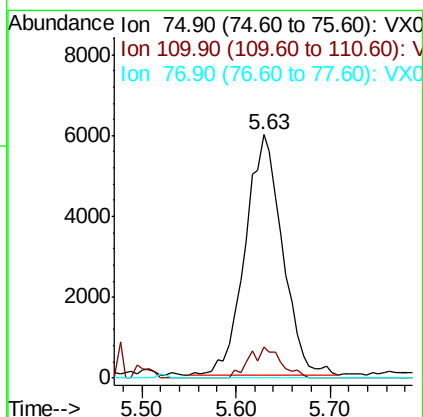
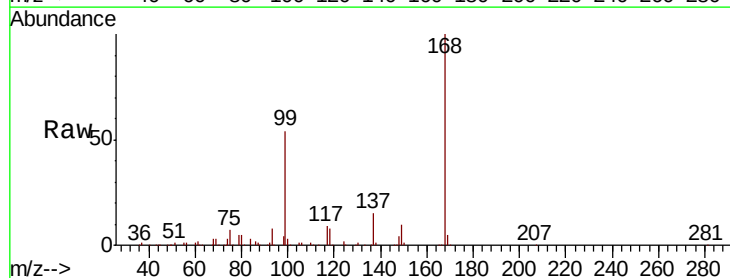
Instrument :
 MSVOA_X
 ClientSampleId :
 FB_061720

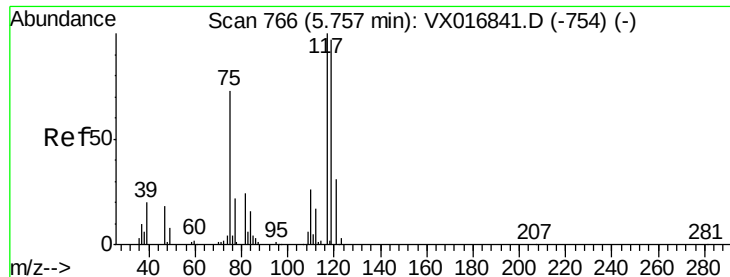
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.4	81.0	121.4
192	23.9	18.5	27.7



#36
 1,1-Dichloropropene
 Concen: 4.521 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX016891.D
 Acq: 19 Jun 2020 19:39

Tgt Ion	Ratio	Lower	Upper
75	100		
110	11.0	18.9	56.9#
77	0.0	25.6	38.4#

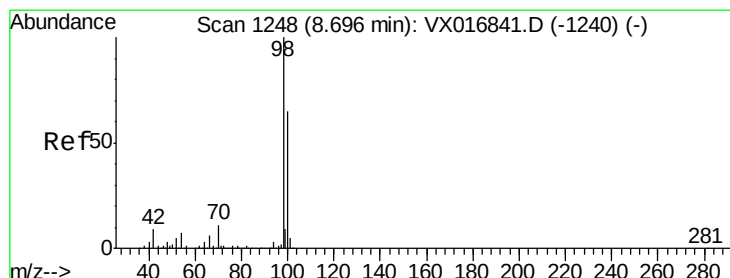
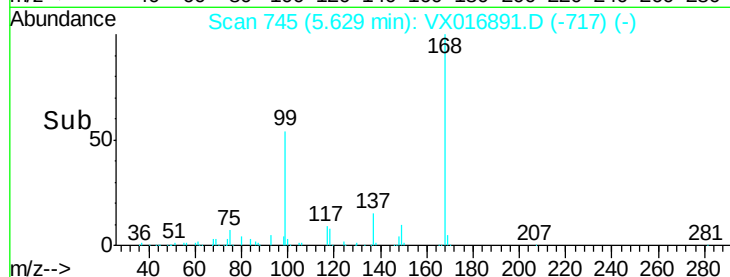
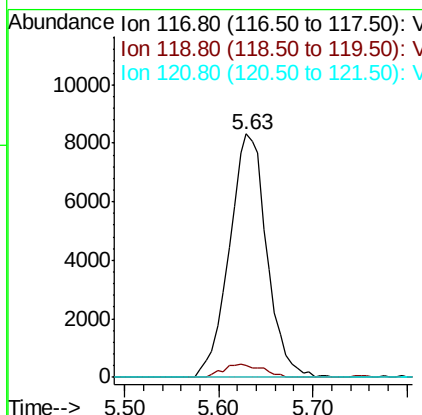
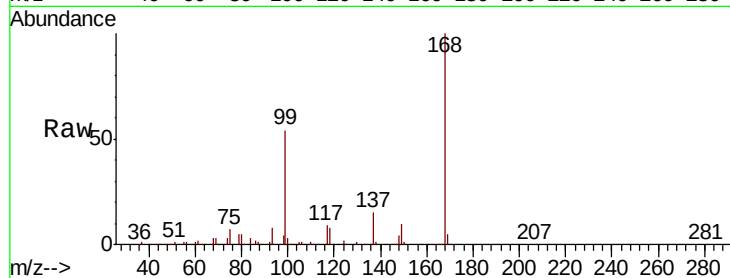




#38
Carbon Tetrachloride
Concen: 5.581 ug/l
RT: 5.63 min Scan# 745
Delta R.T. -0.13 min
Lab File: VX016891.D
Acq: 19 Jun 2020 19:39

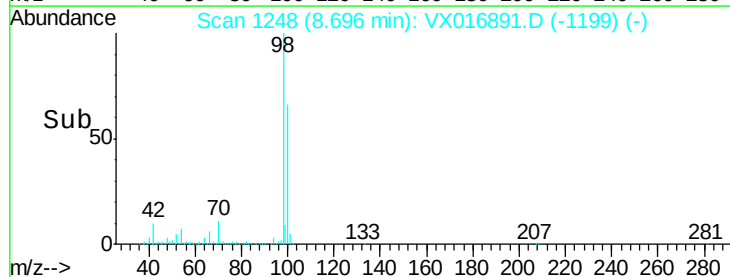
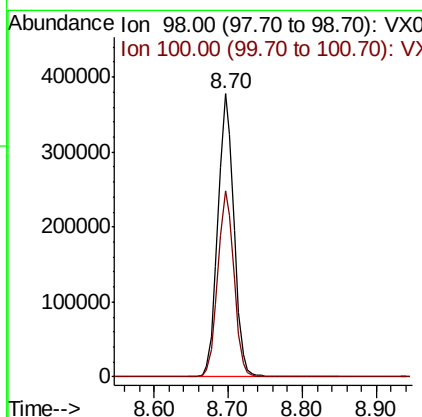
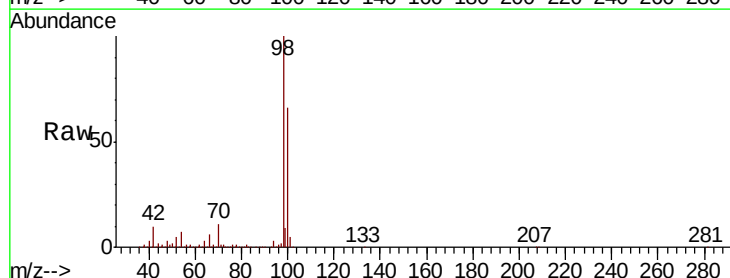
Instrument :
MSVOA_X
ClientSampled :
FB_061720

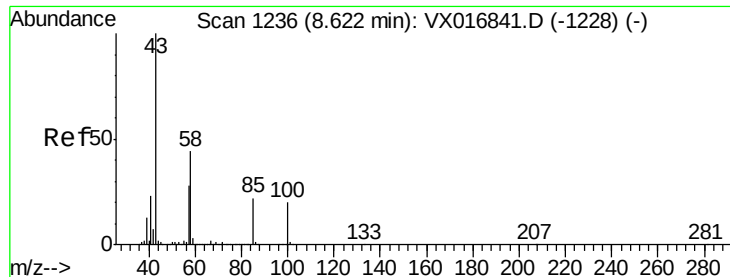
Tot Ion:117 Resp: 22958
Ion Ratio Lower Upper
117 100
119 5.1 77.4 116.2#
121 0.0 24.7 37.1#



#50
Toluene-d8
Concen: 55.207 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VX016891.D
Acq: 19 Jun 2020 19:39

Tgt Ion: 98 Resp: 561058
Ion Ratio Lower Upper
98 100
100 66.3 54.0 81.0





#51

4-Methyl-2-Pentanone

Concen: 0.674 ug/l

RT: 8.62 min Scan# 1236

Delta R.T. 0.00 min

Lab File: VX016891.D

Acq: 19 Jun 2020 19:39

Instrument :

MSVOA_X

ClientSampleId :

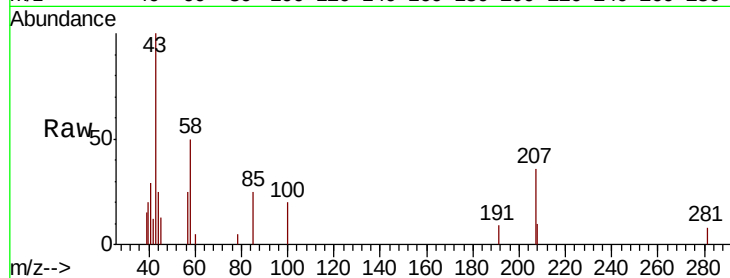
FB_061720

Tot Ion: 43 Resp: 2292

Ion Ratio Lower Upper

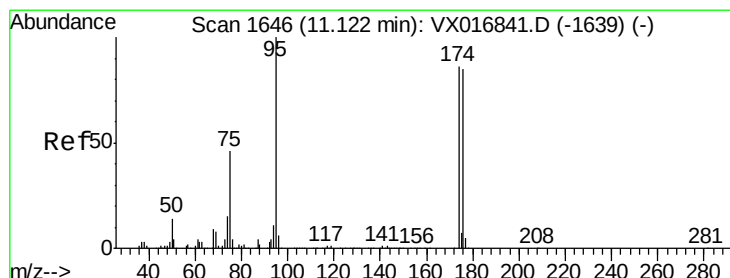
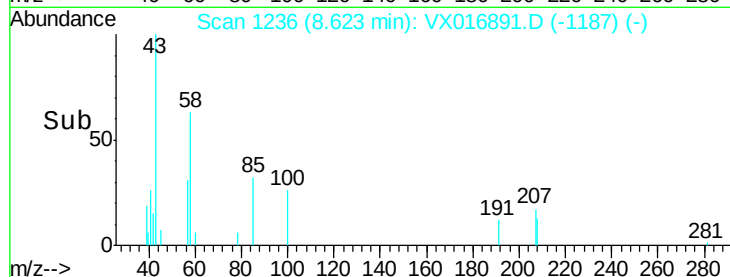
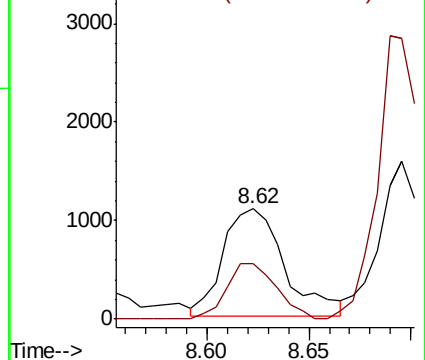
43 100

58 42.2 34.3 51.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#62

4-Bromofluorobenzene

Concen: 55.916 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX016891.D

Acq: 19 Jun 2020 19:39

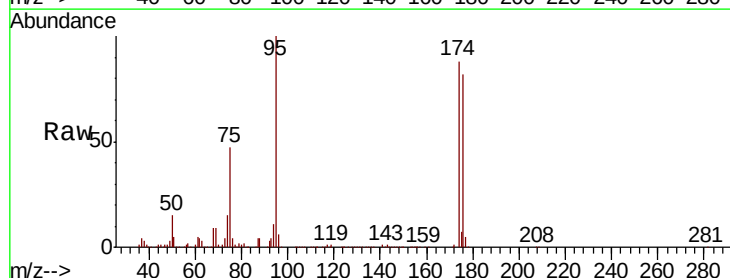
Tgt Ion: 95 Resp: 217727

Ion Ratio Lower Upper

95 100

174 85.6 0.0 174.2

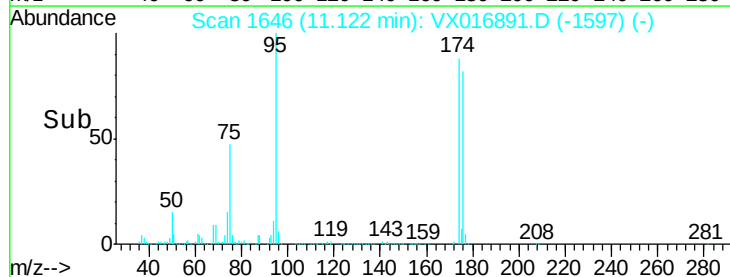
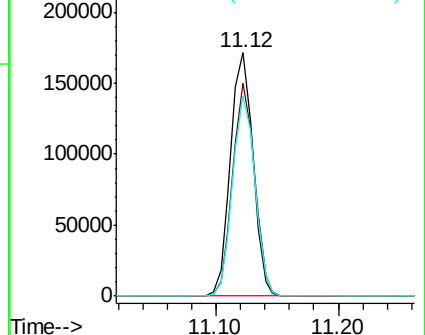
176 82.0 0.0 170.0

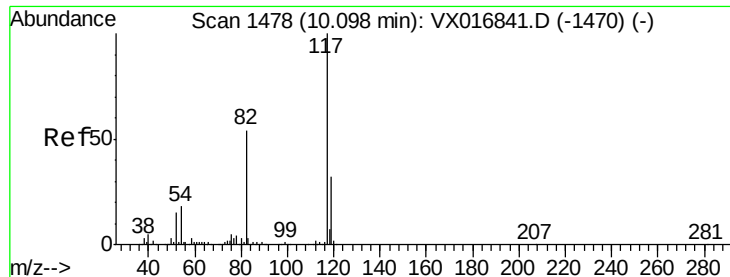


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

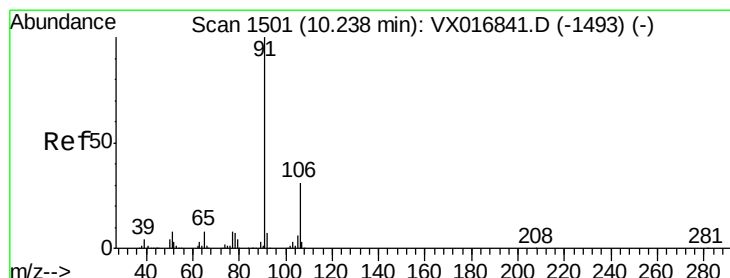
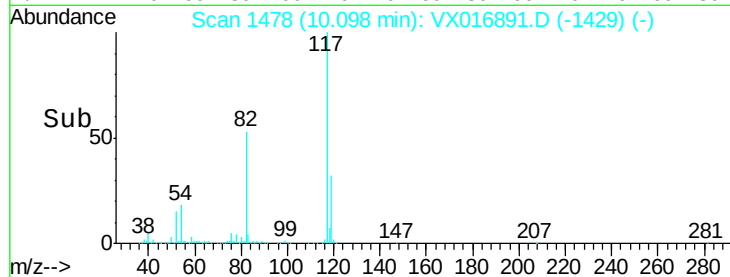
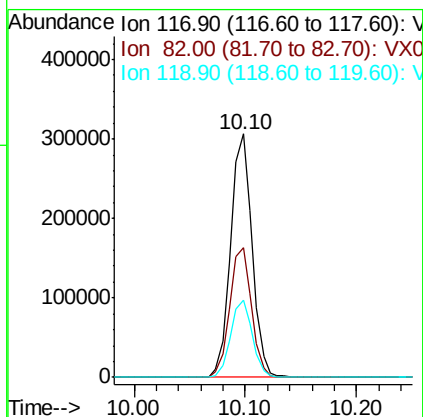
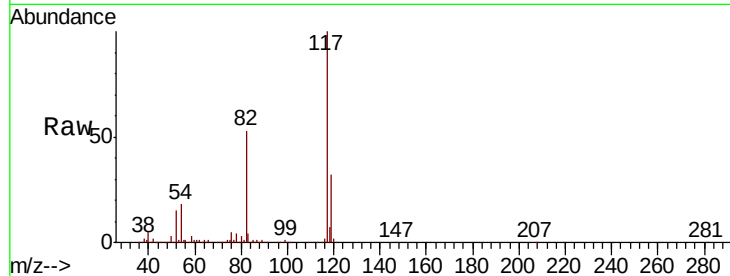




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.00 min
Lab File: VX016891.D
Acq: 19 Jun 2020 19:39

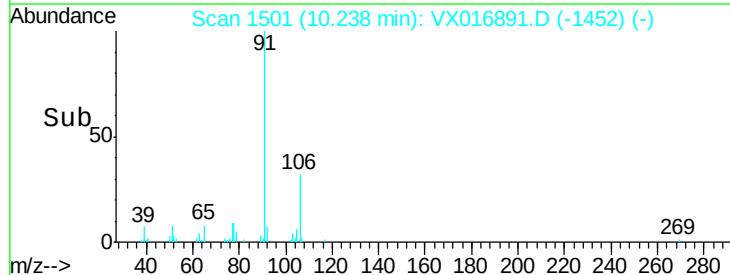
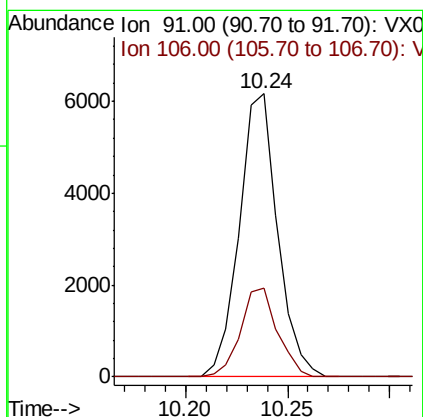
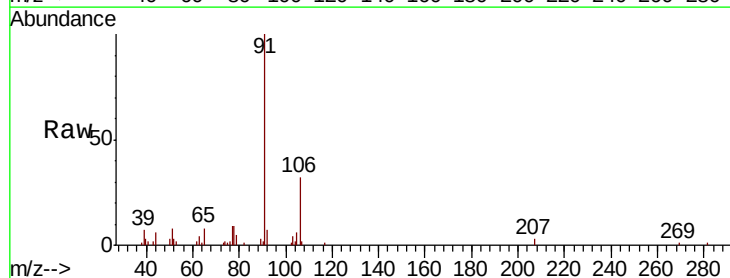
Instrument :
MSVOA_X
ClientSampleId :
FB_061720

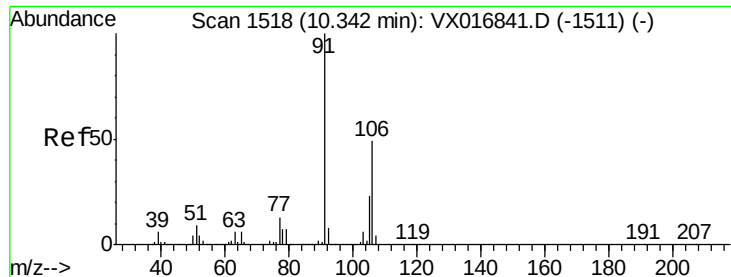
Tot Ion:117 Resp: 407845
Ion Ratio Lower Upper
117 100
82 53.0 43.4 65.0
119 31.8 25.7 38.5



#67
Ethyl Benzene
Concen: 0.577 ug/l
RT: 10.24 min Scan# 1501
Delta R.T. 0.00 min
Lab File: VX016891.D
Acq: 19 Jun 2020 19:39

Tgt Ion: 91 Resp: 8041
Ion Ratio Lower Upper
91 100
106 31.6 25.1 37.7





#68

m/p-Xvlenes

Concen: 0.349 ug/l

RT: 10.34 min Scan# 1518

Delta R.T. 0.00 min

Lab File: VX016891.D

Acq: 19 Jun 2020 19:39

Instrument :

MSVOA_X

ClientSampled :

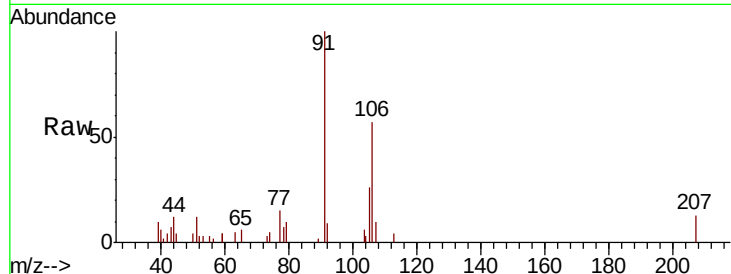
FB_061720

Tot Ion:106 Resp: 1895

Ion Ratio Lower Upper

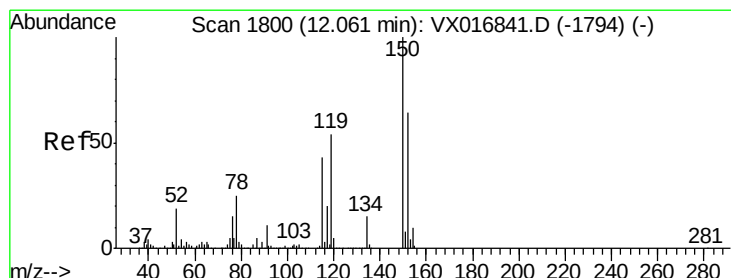
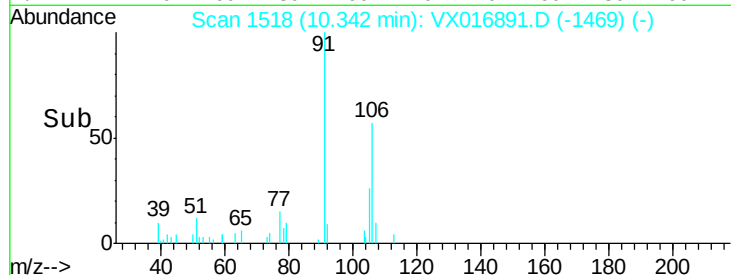
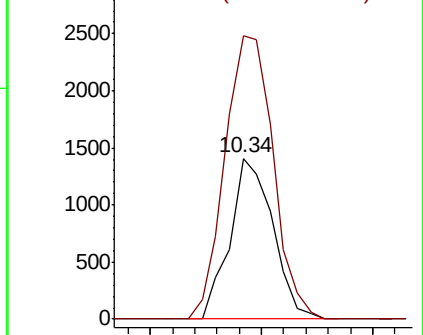
106 100

91 197.5 161.5 242.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX016891.D

Acq: 19 Jun 2020 19:39

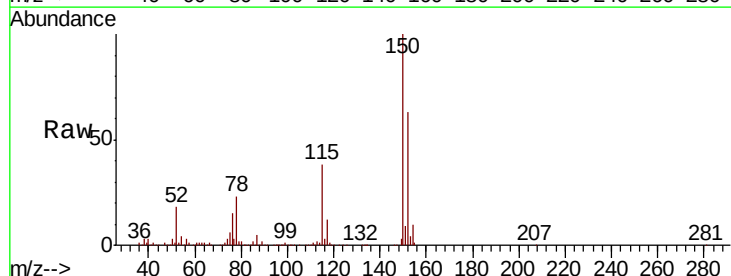
Tgt Ion:152 Resp: 215422

Ion Ratio Lower Upper

152 100

115 58.7 40.9 122.8

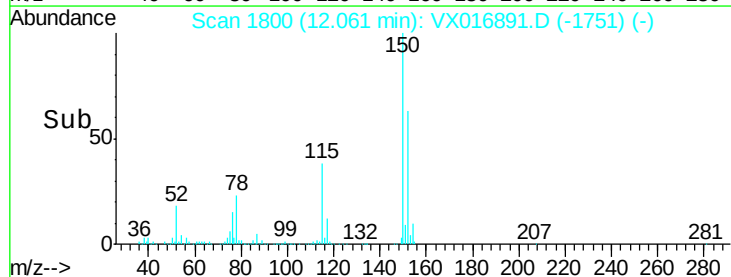
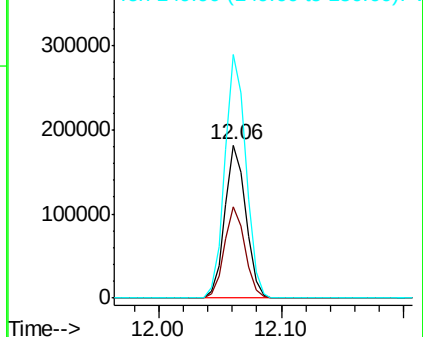
150 159.6 0.0 344.2

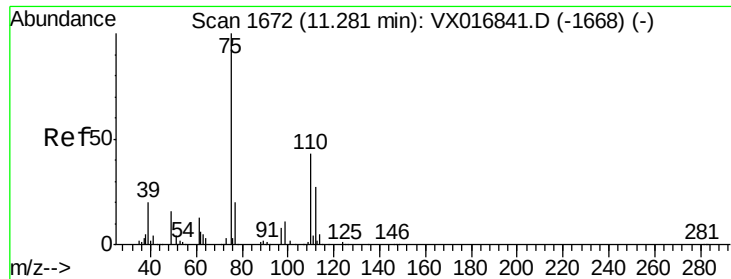


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

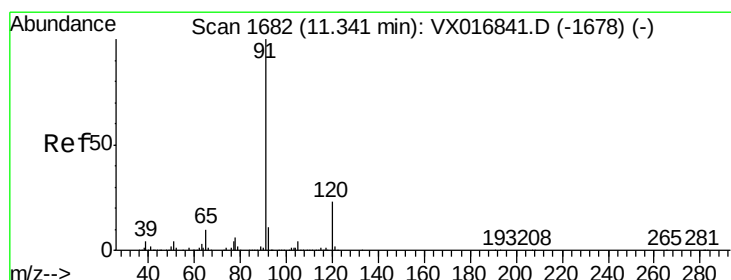
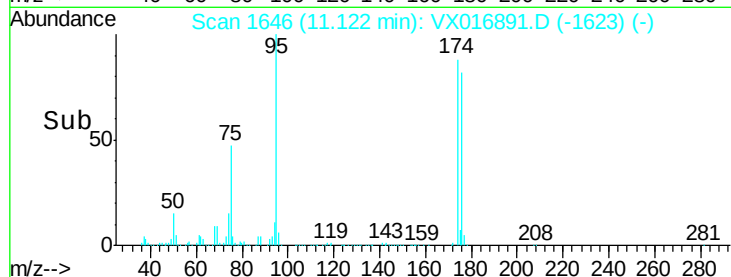
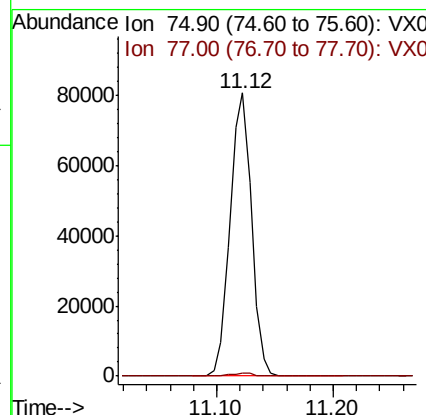
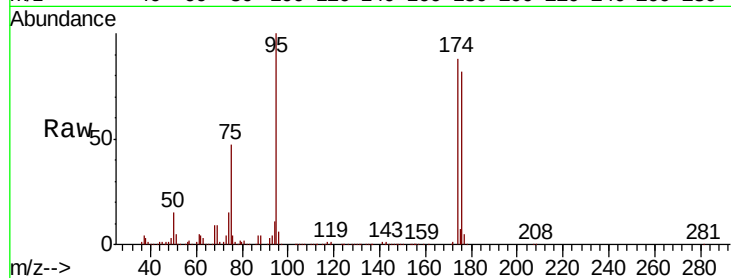




#76
 1,2,3-Trichloropropane
 Concen: 26.227 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. -0.16 min
 Lab File: VX016891.D
 Acq: 19 Jun 2020 19:39

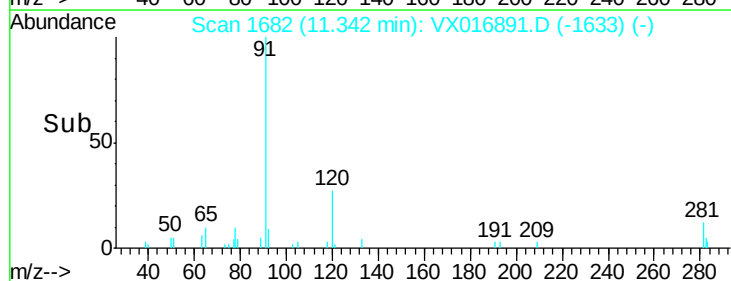
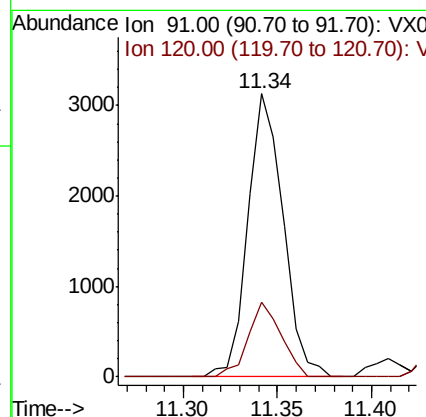
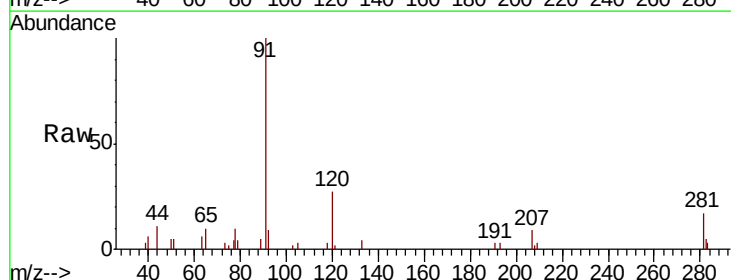
Instrument :
 MSVOA_X
 ClientSampleId :
 FB_061720

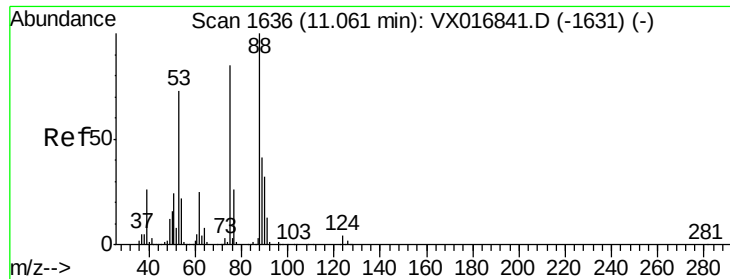
Tot Ion: 75 Resp: 103184
 Ion Ratio Lower Upper
 75 100
 77 1.2 20.5 61.5#



#78
 n-propylbenzene
 Concen: 0.263 ug/l
 RT: 11.34 min Scan# 1682
 Delta R.T. 0.00 min
 Lab File: VX016891.D
 Acq: 19 Jun 2020 19:39

Tgt Ion: 91 Resp: 4064
 Ion Ratio Lower Upper
 91 100
 120 24.8 11.9 35.5





#81

trans-1,4-Dichloro-2-butene

Concen: 64.225 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016891.D

Acq: 19 Jun 2020 19:39

Instrument :

MSVOA_X

ClientSampled :

FB_061720

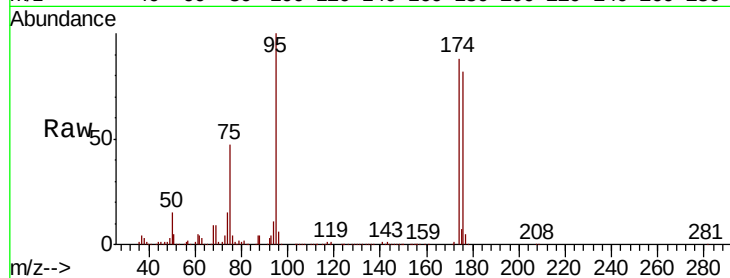
Tot Ion: 75 Resp: 103184

Ion Ratio Lower Upper

75 100

53 0.1 69.8 104.8#

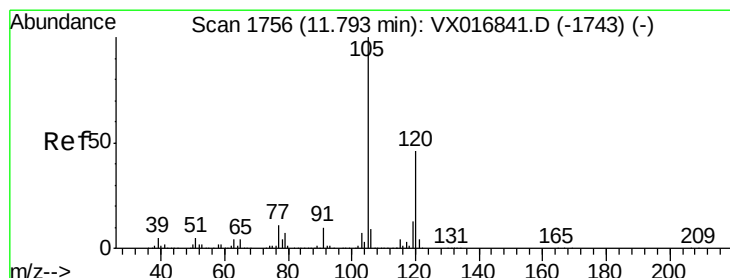
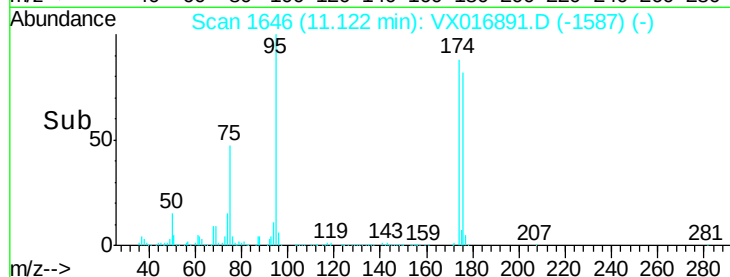
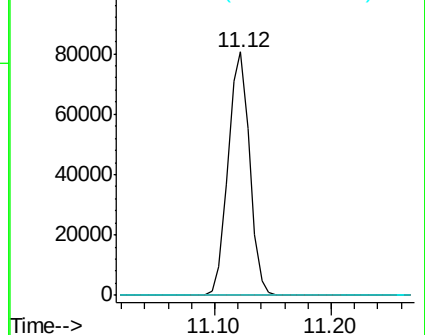
89 0.0 38.3 57.5#



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



#84

1,2,4-Trimethylbenzene

Concen: 0.650 ug/l

RT: 11.79 min Scan# 1756

Delta R.T. 0.00 min

Lab File: VX016891.D

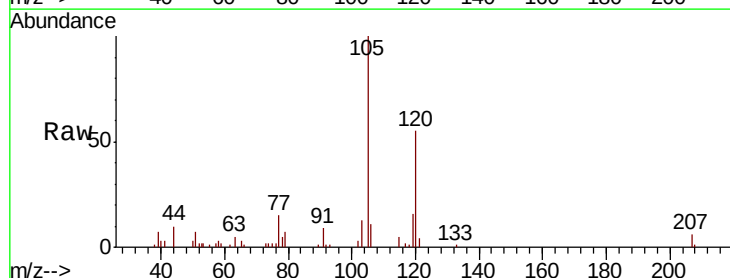
Acq: 19 Jun 2020 19:39

Tgt Ion:105 Resp: 8015

Ion Ratio Lower Upper

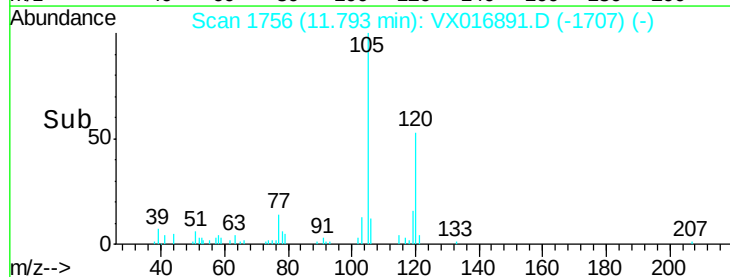
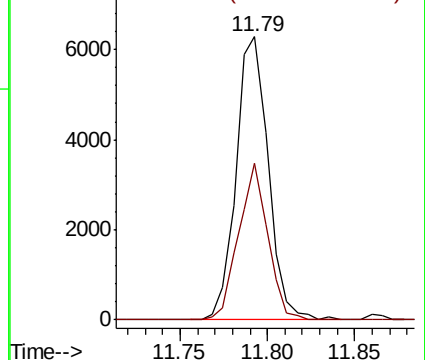
105 100

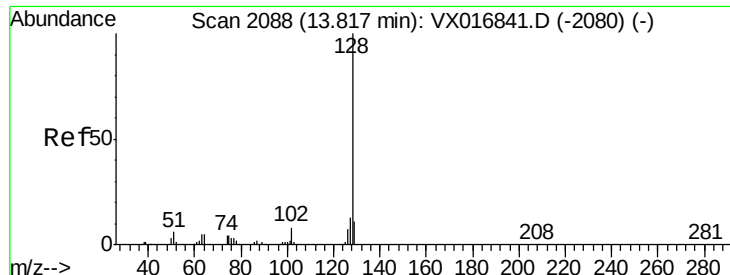
120 50.3 22.3 66.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#95

Naphthalene

Concen: 0.723 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. 0.00 min

Lab File: VX016891.D

Acq: 19 Jun 2020 19:39

Instrument :

MSVOA_X

ClientSampleId :

FB_061720

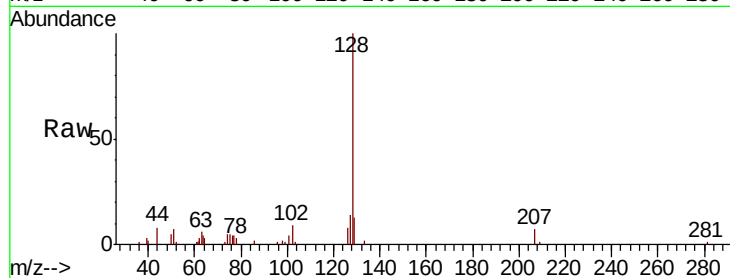
Tot Ion:128 Resp: 9515

Ion Ratio Lower Upper

128 100

127 14.1 10.4 15.6

129 10.6 8.6 13.0



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

