

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120519\
 Data File : VX013782.D
 Acq On : 05 Dec 2019 18:00
 Operator : JC/SP
 Sample : K6178-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 391203051.1

Quant Time: Dec 06 02:21:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X111119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Nov 12 01:16:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	101186	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	567093	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	491856	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	217194	29.07	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	96.90%
60) 4-Bromofluorobenzene	11.13	95	226274	28.62	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	95.40%
63) Toluene-d8	8.71	98	669687	30.11	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.37%

Target Compounds

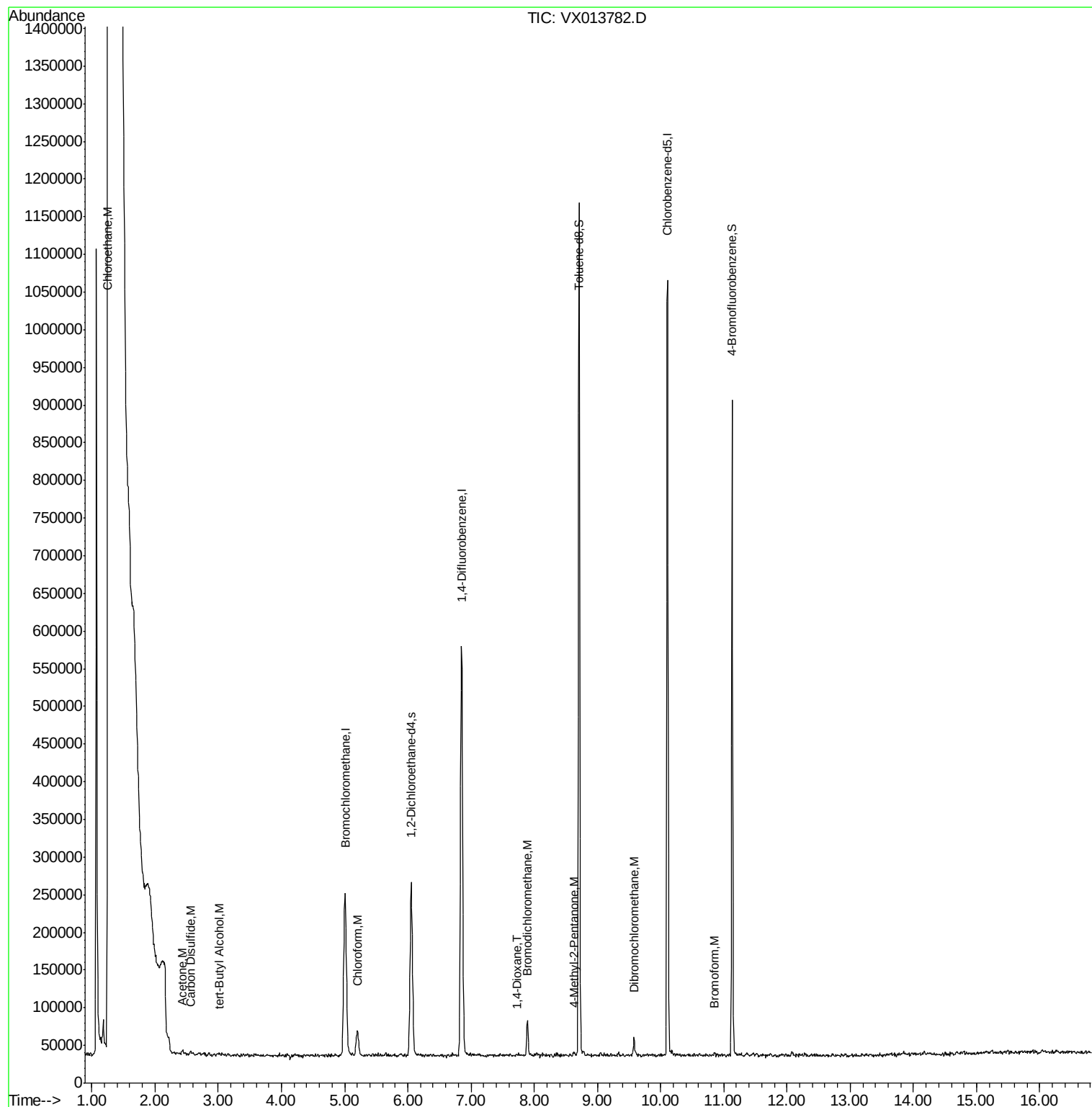
					Ovalue	
6) Chloroethane	1.25	64	3065569	593.999	ug/l #	1
15) Acetone	2.43	58	2475	2.029	ug/l #	54
16) Carbon Disulfide	2.56	76	3802	0.218	ug/l	98
23) tert-Butyl Alcohol	3.03	59	406	0.210	ug/l #	50
25) Chloroform	5.20	83	39810	3.373	ug/l	95
41) Bromodichloromethane	7.89	83	29534	3.346	ug/l	99
45) 1,4-Dioxane	7.73	88	134	0.724	ug/l #	70
53) Dibromochloromethane	9.58	129	11987	1.691	ug/l	99
56) Bromoform	10.85	173	1380	0.245	ug/l #	92
58) 4-Methyl-2-Pentanone	8.63	43	6012	0.585	ug/l #	54

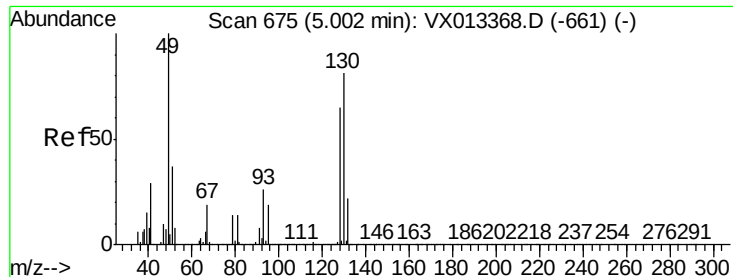
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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391203051.1

Quant Time: Dec 06 02:21:43 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA X\METHOD\624X111119W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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Response via : Initial Calibration

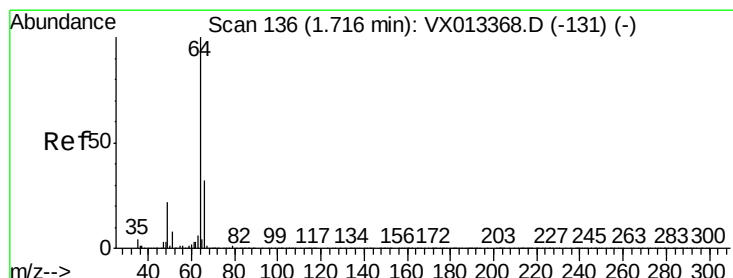
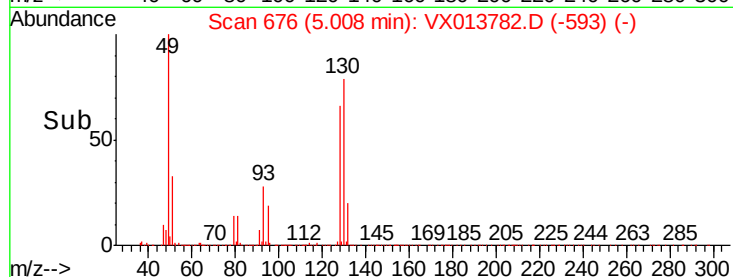
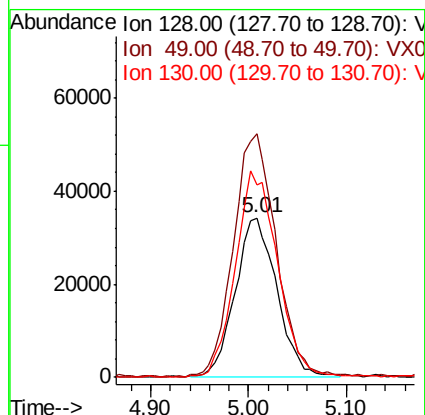
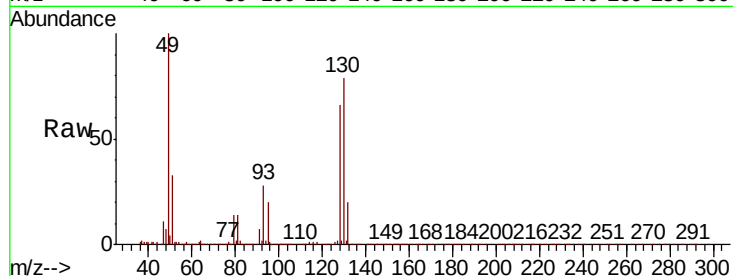




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 5.01 min Scan# 676
Delta R.T. 0.01 min
Lab File: VX013782.D
Acq: 05 Dec 2019 18:00

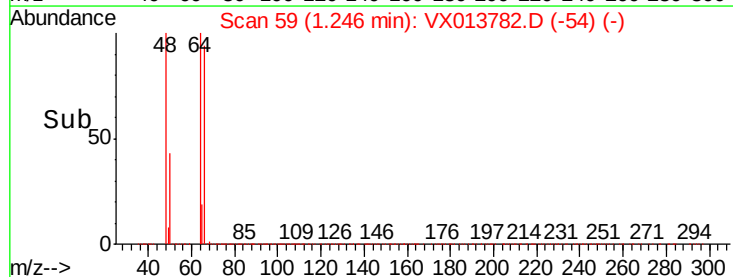
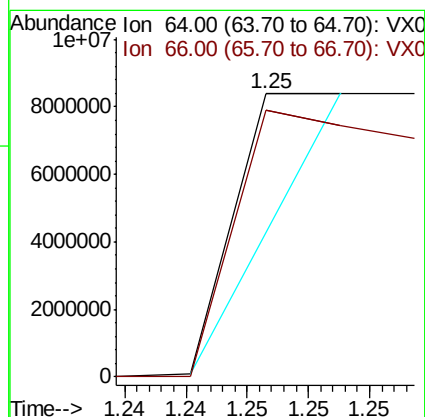
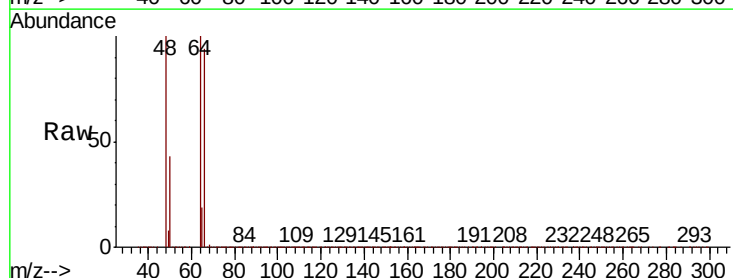
Instrument :
MSVOA_X
ClientSampleId :
391203051.1

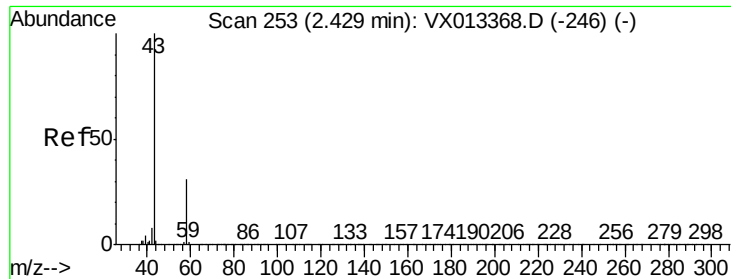
Tot Ion:128 Resp: 101186
Ion Ratio Lower Upper
128 100
49 156.8 0.0 388.3
130 131.6 0.0 318.5



#6
Chloroethane
Concen: 593.999 ug/l
RT: 1.25 min Scan# 59
Delta R.T. -0.47 min
Lab File: VX013782.D
Acq: 05 Dec 2019 18:00

Tgt Ion: 64 Resp: 3065569
Ion Ratio Lower Upper
64 100
66 95.3 25.5 38.3#





#15

Acetone

Concen: 2.029 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.00 min

Lab File: VX013782.D

Acq: 05 Dec 2019 18:00

Instrument :

MSVOA_X

ClientSampleId :

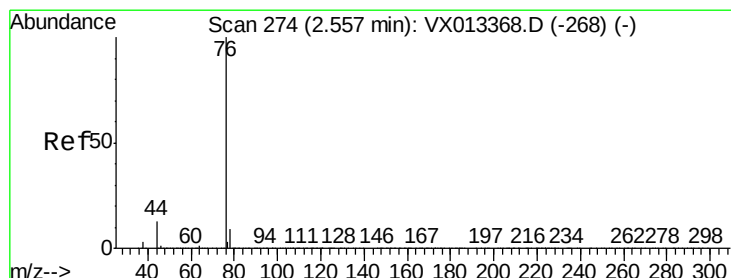
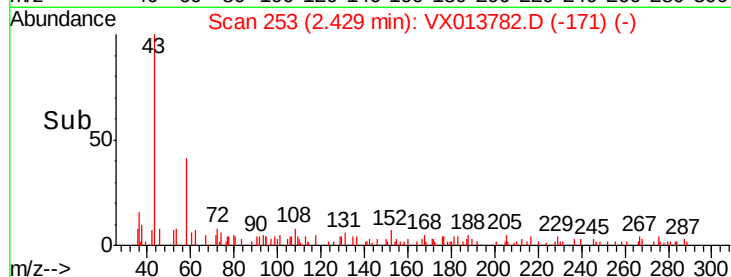
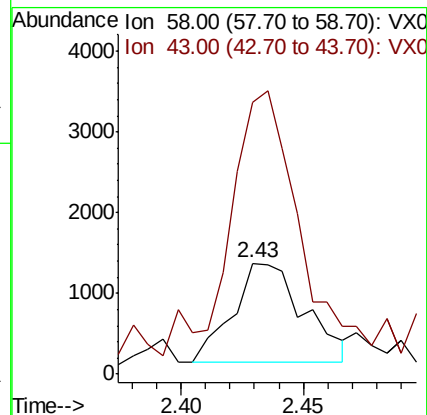
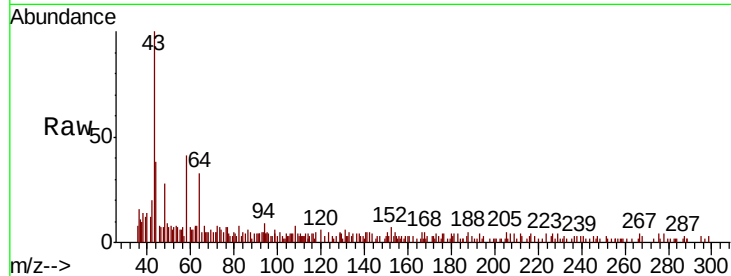
391203051.1

Tot Ion: 58 Resp: 2475

Ion Ratio Lower Upper

58 100

43 231.8 261.4 392.2#



#16

Carbon Disulfide

Concen: 0.218 ug/l

RT: 2.56 min Scan# 274

Delta R.T. -0.00 min

Lab File: VX013782.D

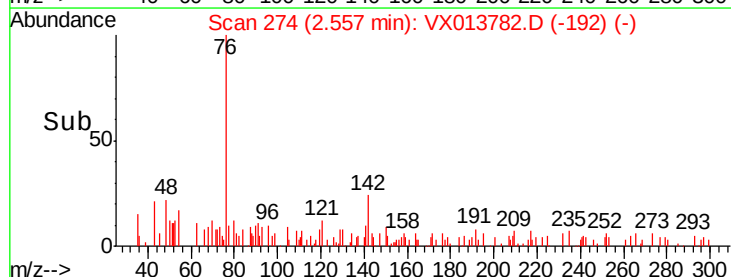
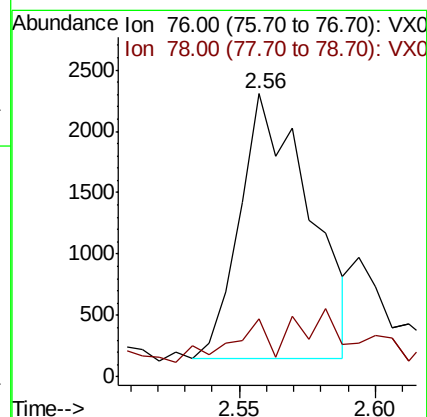
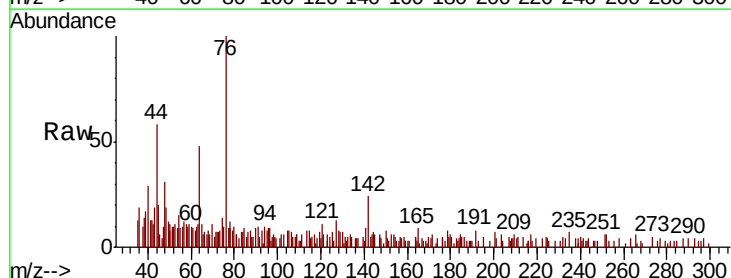
Acq: 05 Dec 2019 18:00

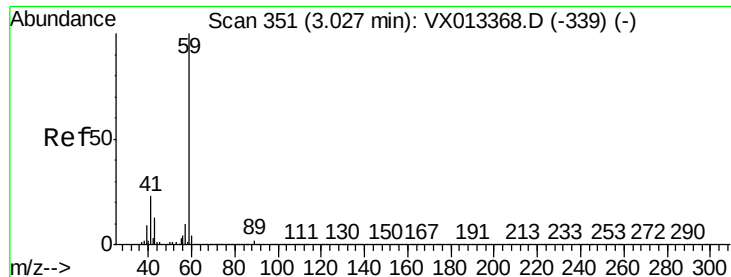
Tgt Ion: 76 Resp: 3802

Ion Ratio Lower Upper

76 100

78 9.8 7.4 11.0





#23

tert-Butyl Alcohol

Concen: 0.210 ug/l

RT: 3.03 min Scan# 351

Delta R.T. -0.00 min

Lab File: VX013782.D

Acq: 05 Dec 2019 18:00

Instrument :

MSVOA_X

ClientSampleId :

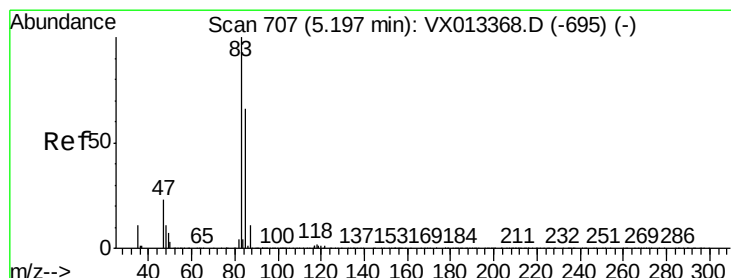
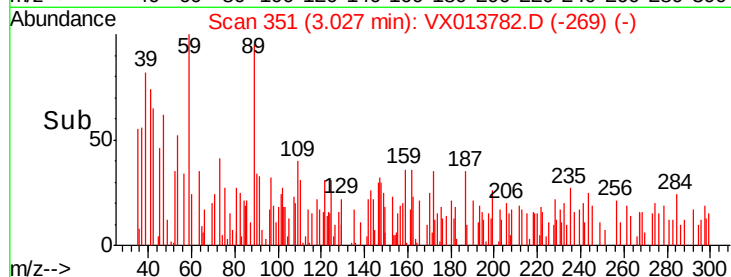
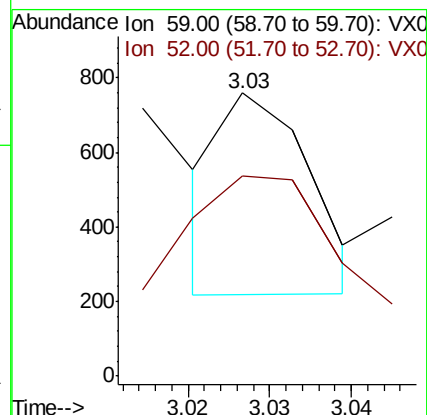
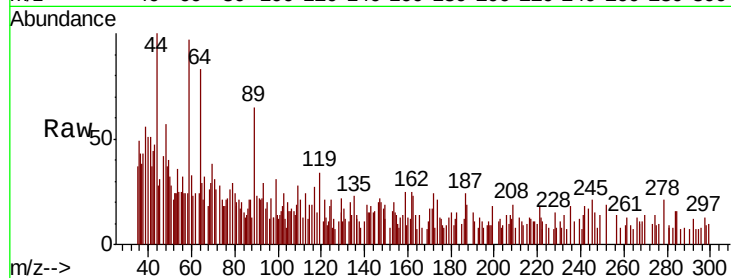
391203051.1

Tot Ion: 59 Resp: 406

Ion Ratio Lower Upper

59 100

52 118.5 0.1 0.1#



#25

Chloroform

Concen: 3.373 ug/l

RT: 5.20 min Scan# 708

Delta R.T. 0.01 min

Lab File: VX013782.D

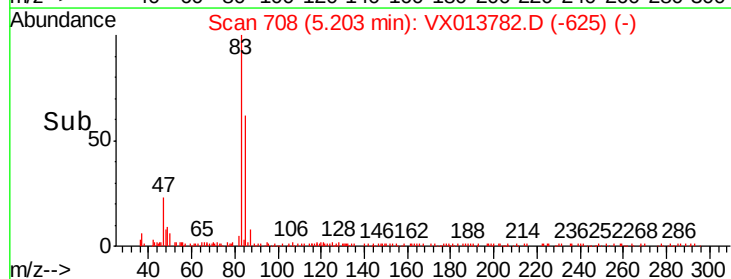
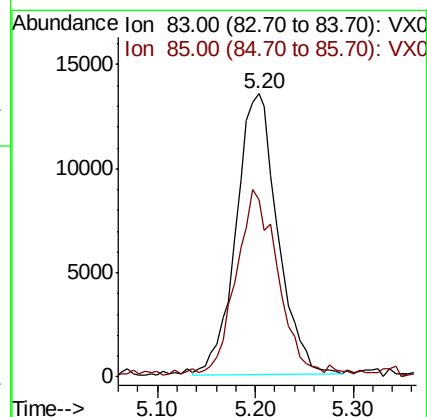
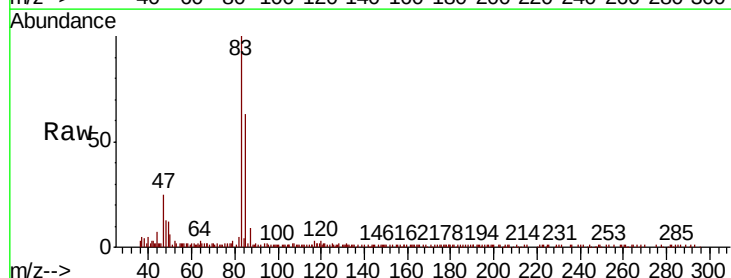
Acq: 05 Dec 2019 18:00

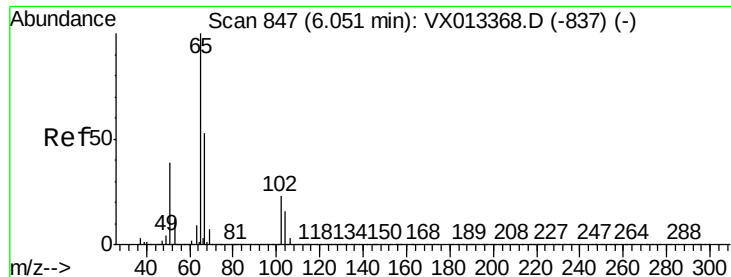
Tgt Ion: 83 Resp: 39810

Ion Ratio Lower Upper

83 100

85 61.6 52.4 78.6

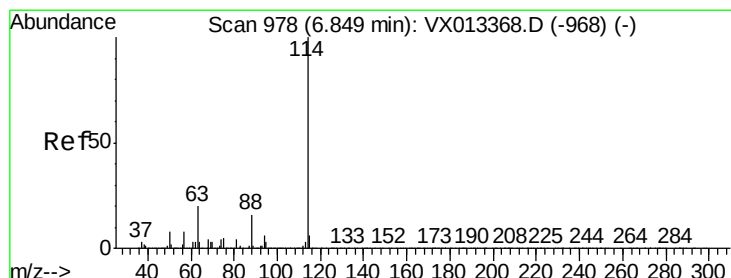
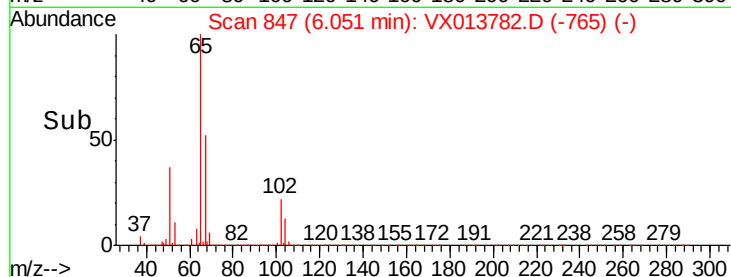
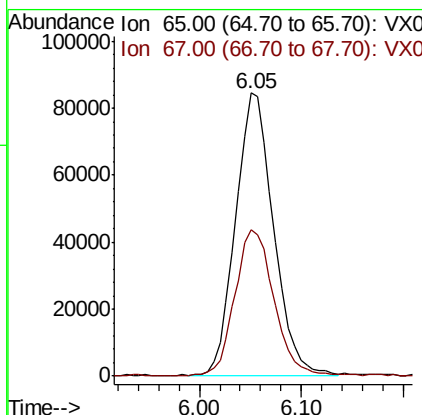
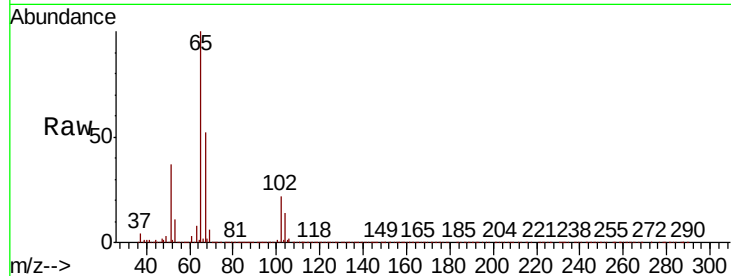




#27
 1,2-Dichloroethane-d4
 Concen: 29.069 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. -0.00 min
 Lab File: VX013782.D
 Acq: 05 Dec 2019 18:00

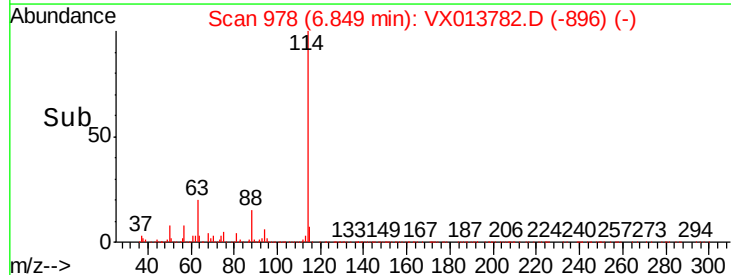
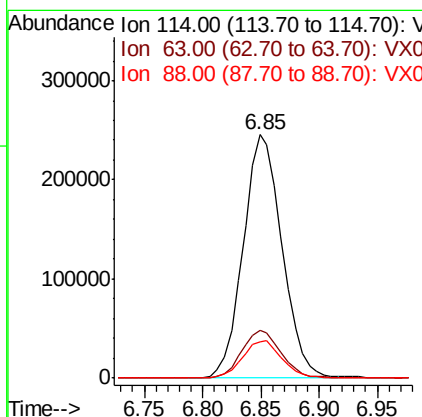
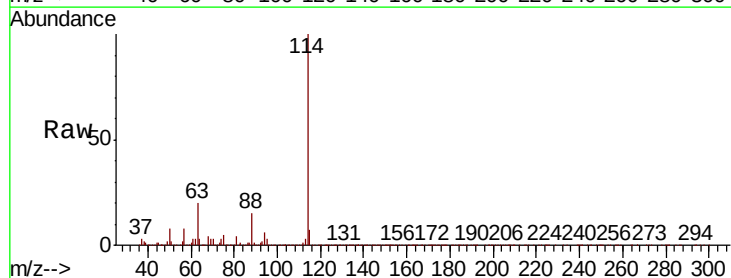
Instrument :
 MSVOA_X
 ClientSampleId :
 391203051.1

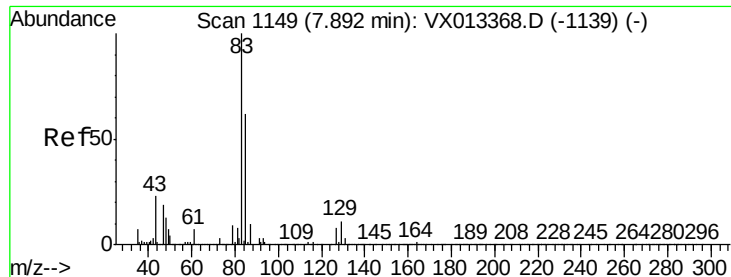
Tot Ion: 65 Resp: 217194
 Ion Ratio Lower Upper
 65 100
 67 53.3 41.0 61.6



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. -0.00 min
 Lab File: VX013782.D
 Acq: 05 Dec 2019 18:00

Tgt Ion: 114 Resp: 567093
 Ion Ratio Lower Upper
 114 100
 63 19.8 16.1 24.1
 88 15.4 12.3 18.5





#41

Bromodichloromethane

Concen: 3.346 ug/l

RT: 7.89 min Scan# 1149

Delta R.T. -0.00 min

Lab File: VX013782.D

Acq: 05 Dec 2019 18:00

Instrument :

MSVOA_X

ClientSampleId :

391203051.1

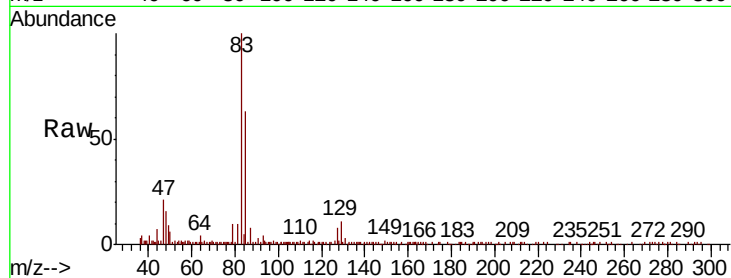
Tot Ion: 83 Resp: 29534

Ion Ratio Lower Upper

83 100

85 62.6 49.3 73.9

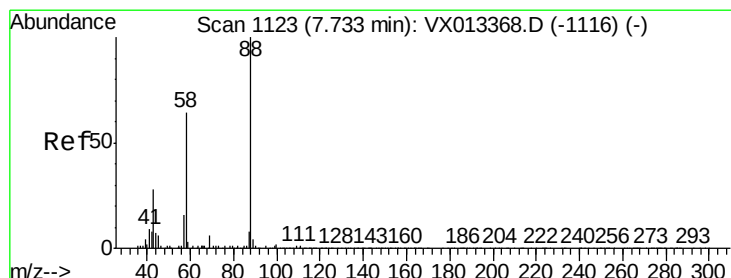
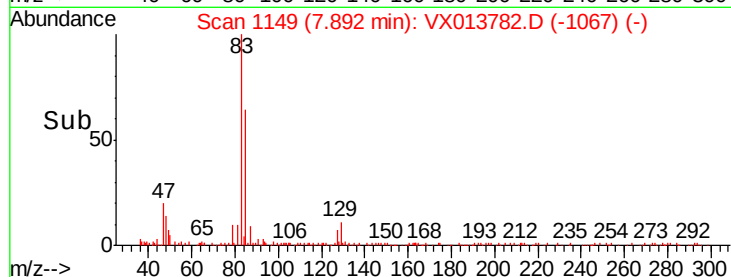
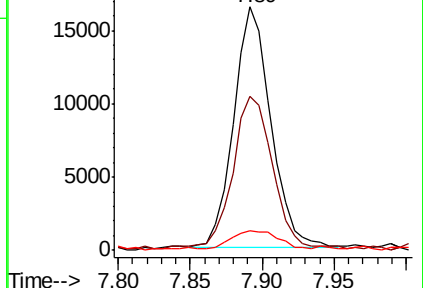
127 7.2 6.6 10.0



Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 85.00 (84.70 to 85.70): VX0

Ion 127.00 (126.70 to 127.70): V



#45

1,4-Dioxane

Concen: 0.724 ug/l

RT: 7.73 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VX013782.D

Acq: 05 Dec 2019 18:00

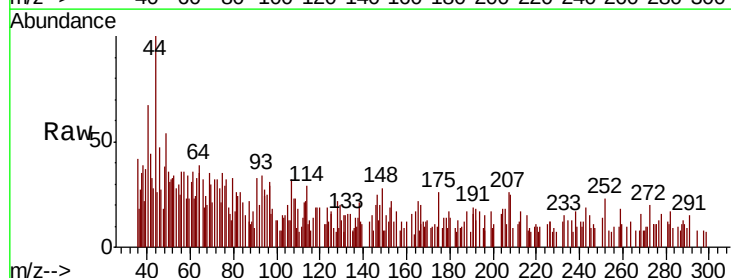
Tgt Ion: 88 Resp: 134

Ion Ratio Lower Upper

88 100

43 53.7 26.1 39.1#

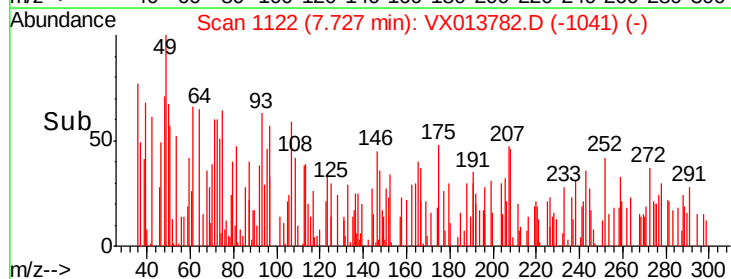
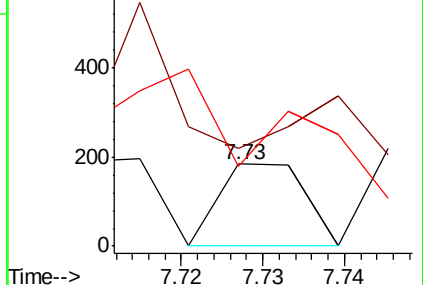
58 91.8 55.8 83.8#

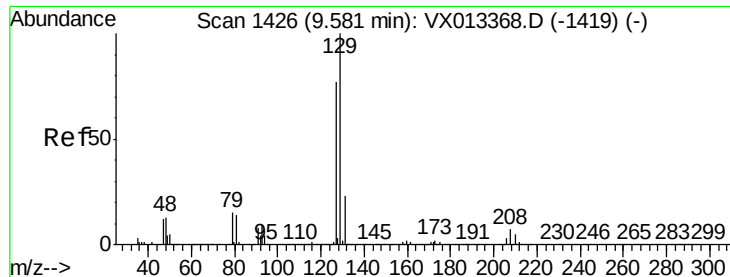


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#53

Dibromochloromethane

Concen: 1.691 ug/l

RT: 9.58 min Scan# 1426

Delta R.T. -0.00 min

Lab File: VX013782.D

Acq: 05 Dec 2019 18:00

Instrument :

MSVOA_X

ClientSampleId :

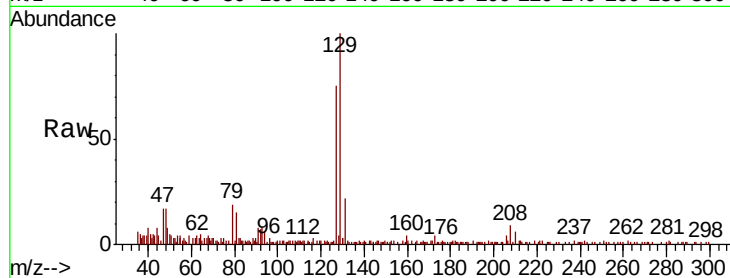
391203051.1

Tot Ion:129 Resp: 11987

Ion Ratio Lower Upper

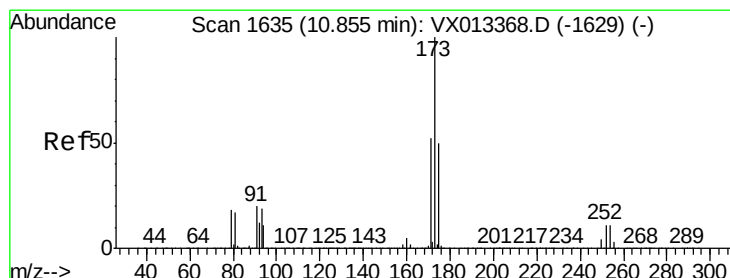
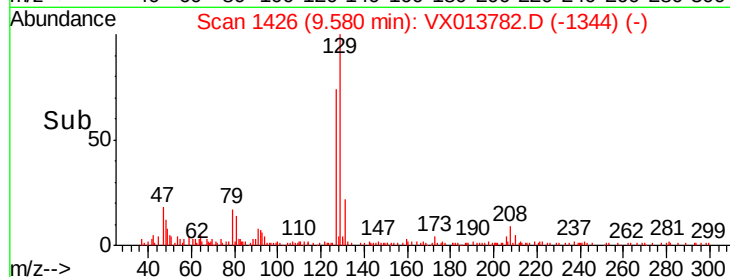
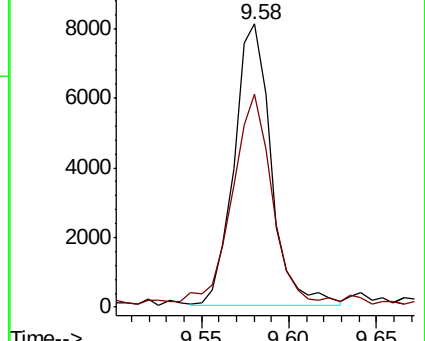
129 100

127 78.7 39.6 119.0



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#56

Bromoform

Concen: 0.245 ug/l

RT: 10.85 min Scan# 1635

Delta R.T. -0.00 min

Lab File: VX013782.D

Acq: 05 Dec 2019 18:00

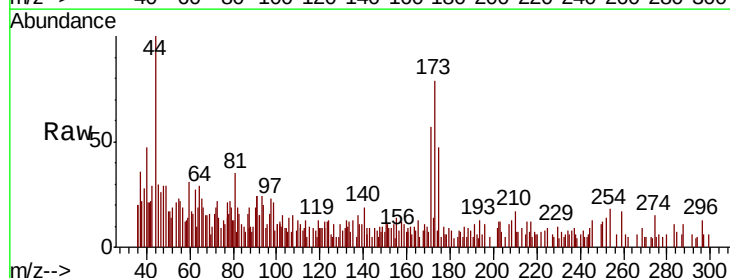
Tgt Ion:173 Resp: 1380

Ion Ratio Lower Upper

173 100

175 53.7 39.4 59.0

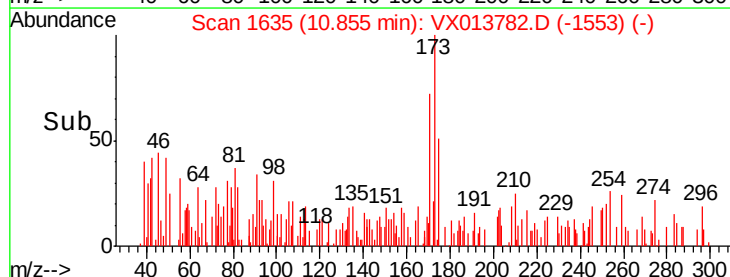
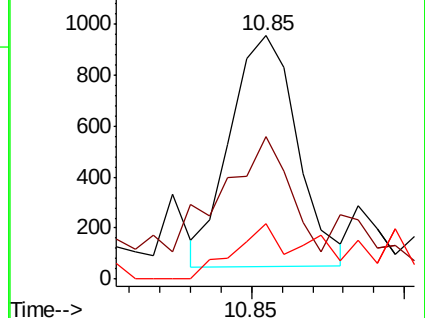
254 16.6 8.6 12.8#

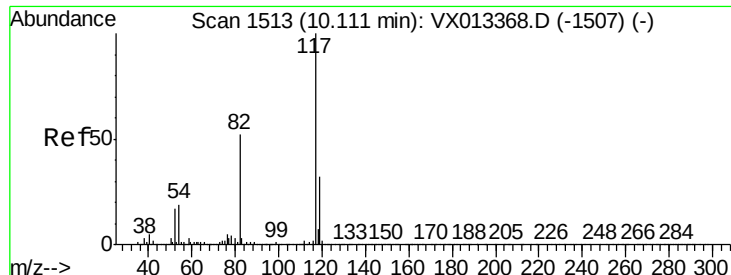


Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V

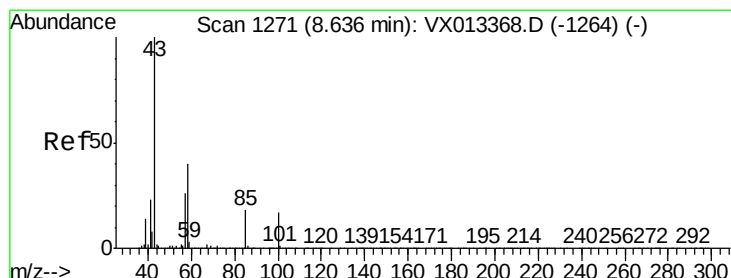
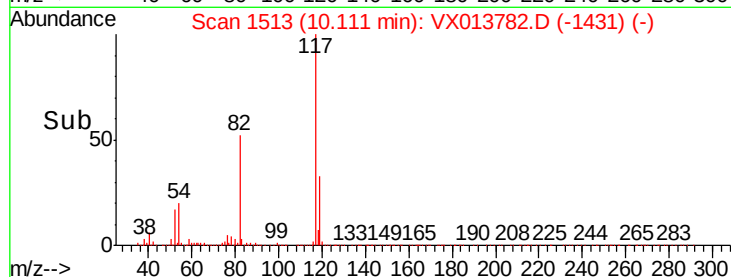
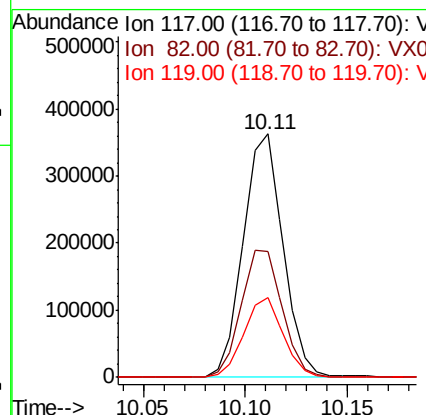
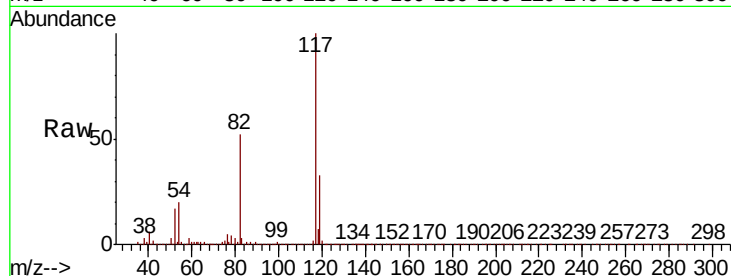




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX013782.D
Acq: 05 Dec 2019 18:00

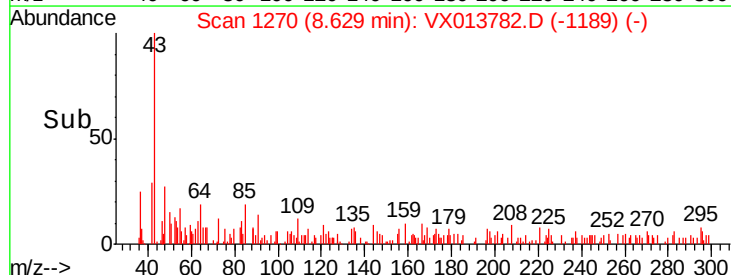
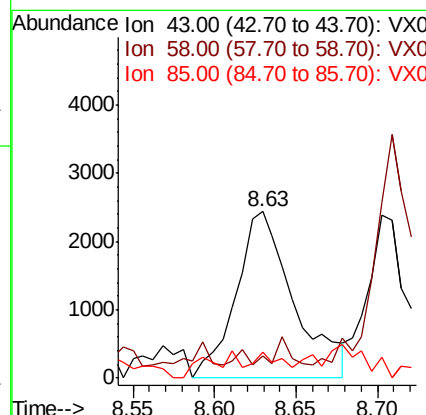
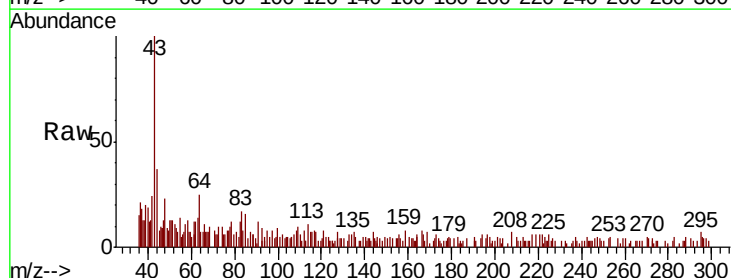
Instrument :
MSVOA_X
ClientSampleId :
391203051.1

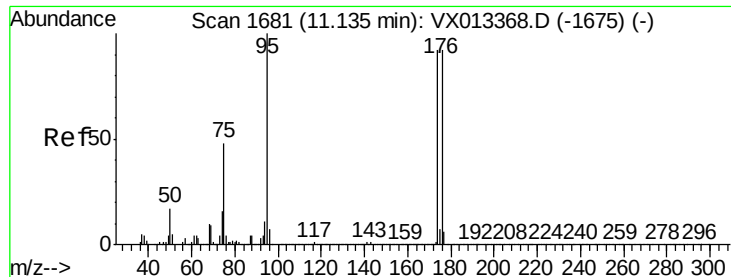
Tot Ion	Ratio	Lower	Upper
117	100		
82	53.8	43.7	65.5
119	32.4	25.5	38.3



#58
4-Methyl-2-Pentanone
Concen: 0.585 ug/l
RT: 8.63 min Scan# 1270
Delta R.T. -0.01 min
Lab File: VX013782.D
Acq: 05 Dec 2019 18:00

Tgt Ion	Ratio	Lower	Upper
43	100		
58	5.8	31.6	47.4#
85	5.8	14.2	21.2#

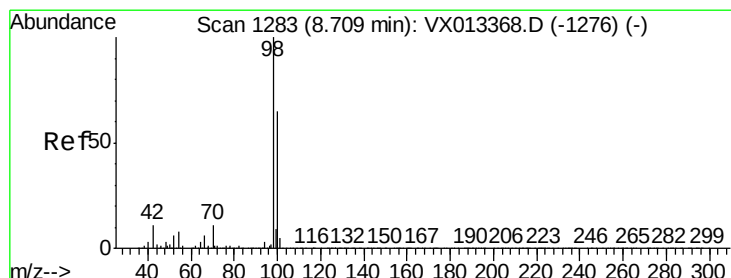
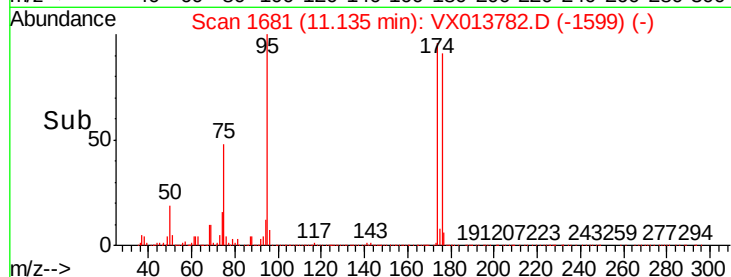
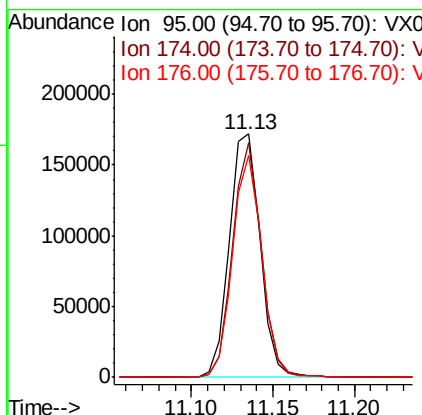
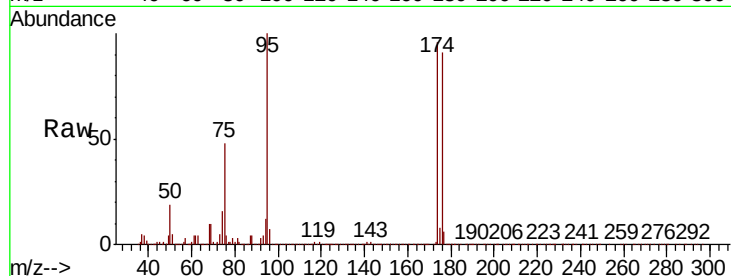




#60
4-Bromofluorobenzene
Concen: 28.622 ug/l
RT: 11.13 min Scan# 1681
Delta R.T. -0.00 min
Lab File: VX013782.D
Acq: 05 Dec 2019 18:00

Instrument :
MSVOA_X
ClientSampleId :
391203051.1

Tot Ion: 95 Resp: 226274
Ion Ratio Lower Upper
95 100
174 89.6 70.2 105.2
176 86.3 68.3 102.5



#63
Toluene-d8
Concen: 30.110 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VX013782.D
Acq: 05 Dec 2019 18:00

Tgt Ion: 98 Resp: 669687
Ion Ratio Lower Upper
98 100
100 65.4 52.5 78.7

