

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121919\
 Data File : VX014128.D
 Acq On : 19 Dec 2019 18:11
 Operator : JC/SP
 Sample : K6373-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 391218757.2

Quant Time: Dec 20 03:21:32 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121319W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 17 03:01:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	542818	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	835244	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	761231	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	360920	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	299294	48.65	ug/l	0.00
Spiked Amount			Recovery	=	97.30%	
35) Dibromofluoromethane	5.49	113	248772	49.00	ug/l	0.00
Spiked Amount			Recovery	=	98.00%	
50) Toluene-d8	8.71	98	1010294	51.11	ug/l	0.00
Spiked Amount			Recovery	=	102.22%	
62) 4-Bromofluorobenzene	11.13	95	353327	48.90	ug/l	0.00
Spiked Amount			Recovery	=	97.80%	

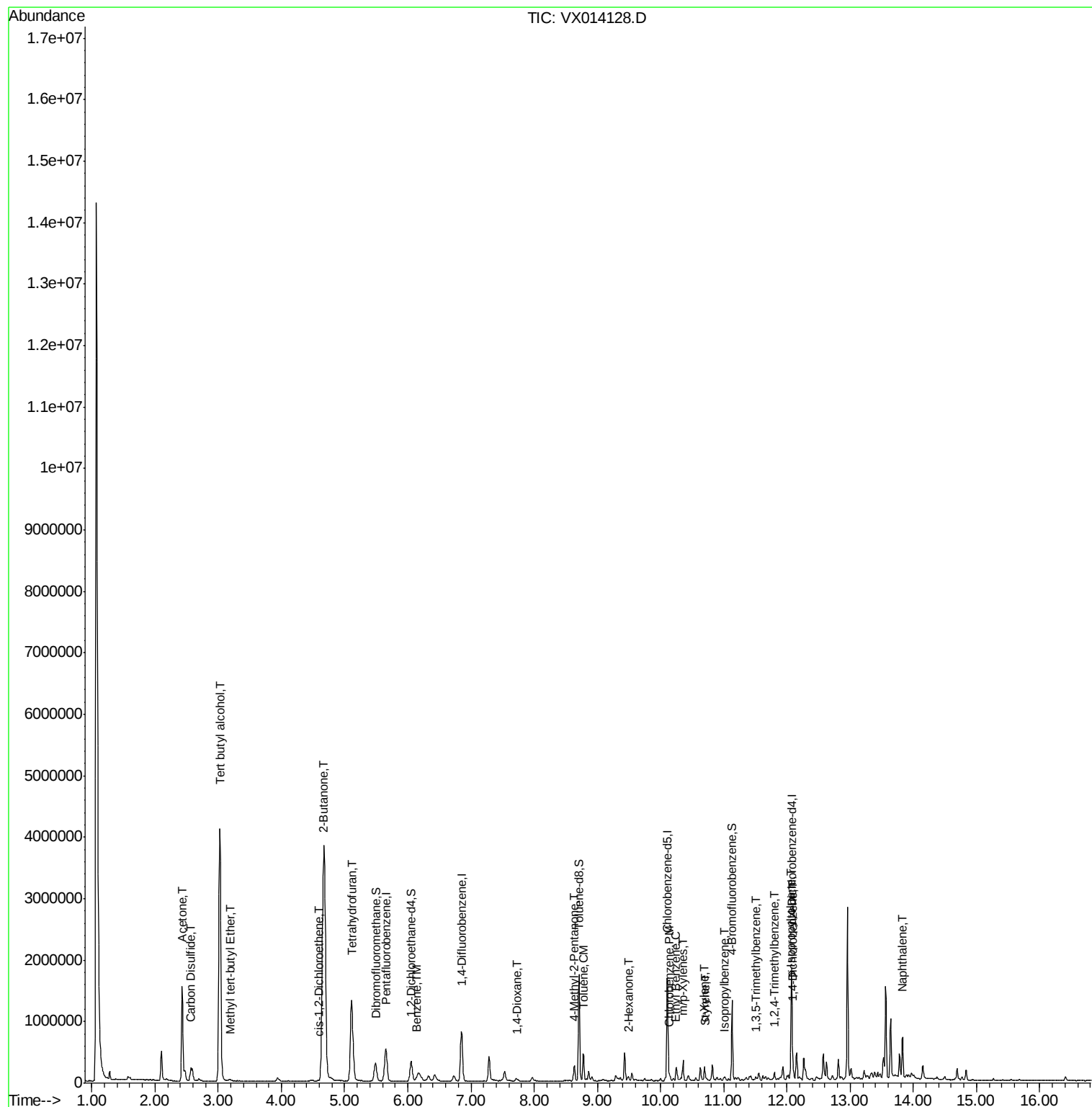
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.03	59	4640181	3490.627	ug/l	99
16) Acetone	2.43	43	1562316	391.163	ug/l	100
17) Carbon Disulfide	2.56	76	278565	19.679	ug/l	98
19) Methyl tert-butyl Ether	3.19	73	25954	1.513	ug/l	93
25) 2-Butanone	4.65	43	2881482	585.172	ug/l	98
27) cis-1,2-Dichloroethene	4.59	96	7486	1.151	ug/l	70
29) Tetrahydrofuran	5.11	42	1030982	374.329	ug/l	98
40) Benzene	6.13	78	51966	2.204	ug/l	99
49) 1,4-Dioxane	7.73	88	9014	64.585	ug/l #	67
51) 4-Methyl-2-Pentanone	8.64	43	152403	17.326	ug/l	97
52) Toluene	8.78	92	146449	9.826	ug/l	99
59) 2-Hexanone	9.49	43	37974	5.363	ug/l	98
65) Chlorobenzene	10.14	112	15720	0.971	ug/l #	89
67) Ethyl Benzene	10.25	91	131123	4.712	ug/l	98
68) m/p-Xylenes	10.36	106	80258	7.499	ug/l	100
69) o-Xylene	10.70	106	46110	4.393	ug/l	96
70) Styrene	10.71	104	18632	1.050	ug/l #	65
73) Isopropylbenzene	11.01	105	18722	0.737	ug/l	98
80) 1,3,5-Trimethylbenzene	11.50	105	15999	0.748	ug/l	99
84) 1,2,4-Trimethylbenzene	11.81	105	54812	2.559	ug/l	96
86) p-Isopropyltoluene	12.06	119	113778	5.062	ug/l	98
88) 1,4-Dichlorobenzene	12.09	146	44212	3.548	ug/l	92
95) Naphthalene	13.83	128	384115	16.307	ug/l	99

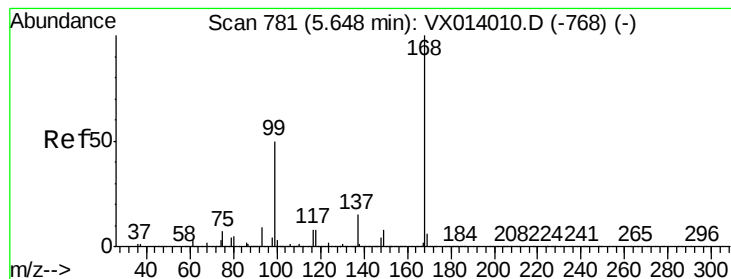
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :
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Quant Time: Dec 20 03:21:32 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X121319W.M
Quant Title : SW846 8260
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Response via : Initial Calibration



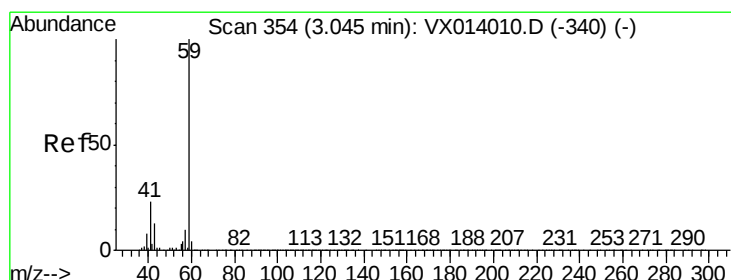
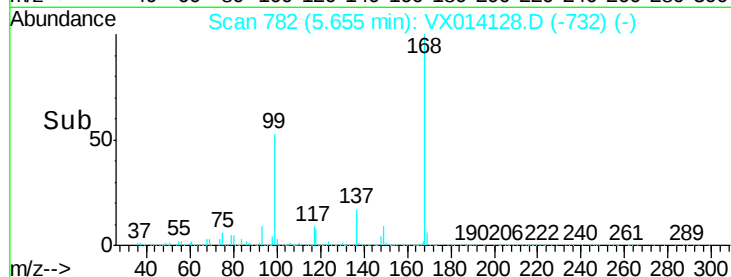
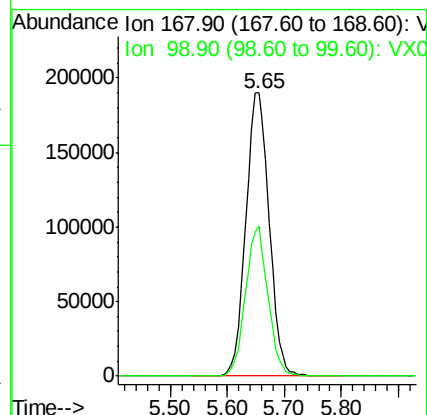
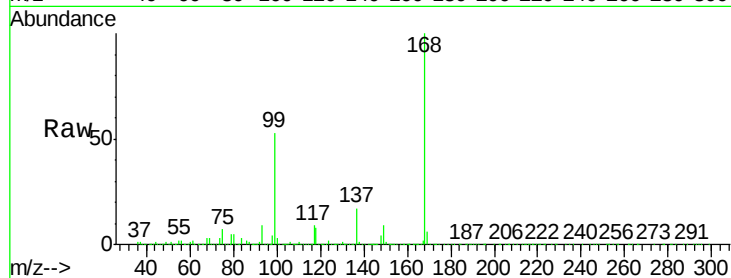


#1

Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. 0.01 min
 Lab File: VX014128.D
 Acq: 19 Dec 2019 18:11

Instrument :
 MSVOA_X
 ClientSampleId :
 391218757.2

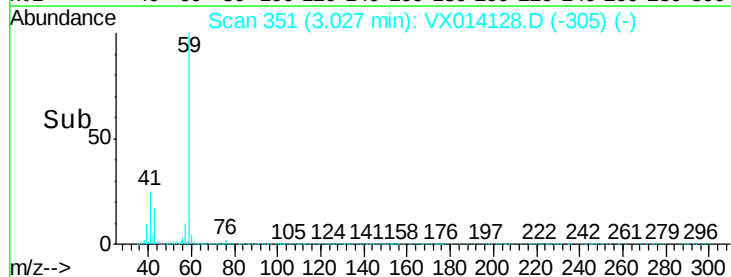
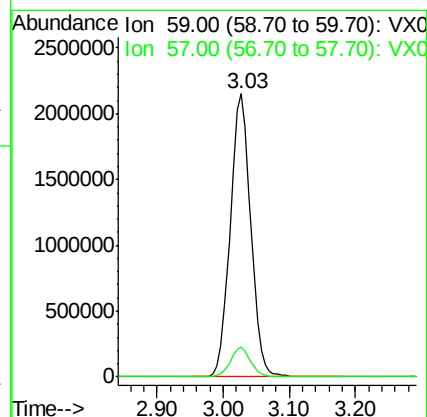
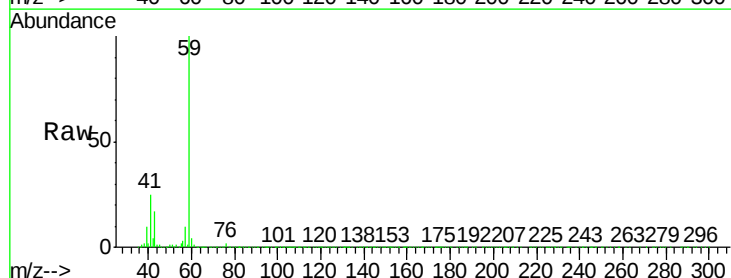
Tot Ion:168 Resp: 542818
 Ion Ratio Lower Upper
 168 100
 99 52.8 40.3 60.5

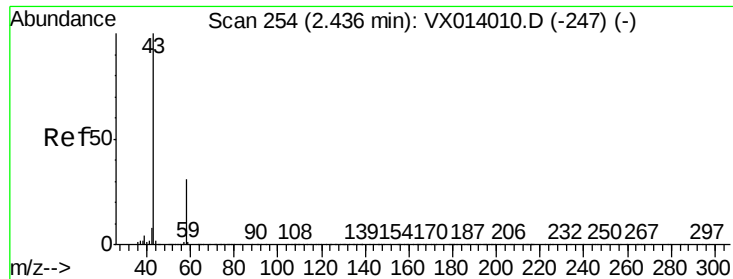


#11

Tert butyl alcohol
 Concen: 3490.627 ug/l
 RT: 3.03 min Scan# 351
 Delta R.T. -0.02 min
 Lab File: VX014128.D
 Acq: 19 Dec 2019 18:11

Tgt Ion: 59 Resp: 4640181
 Ion Ratio Lower Upper
 59 100
 57 10.3 8.4 12.6

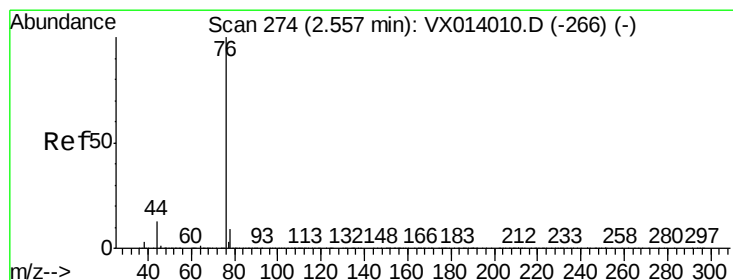
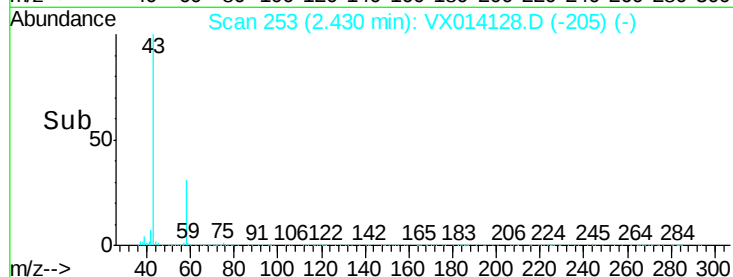
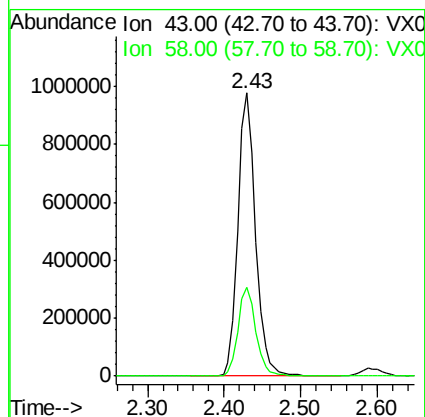
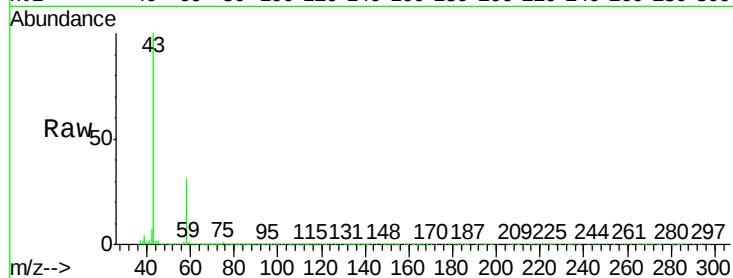




#16
Acetone
Concen: 391.163 ug/l
RT: 2.43 min Scan# 253
Delta R.T. -0.01 min
Lab File: VX014128.D
Acq: 19 Dec 2019 18:11

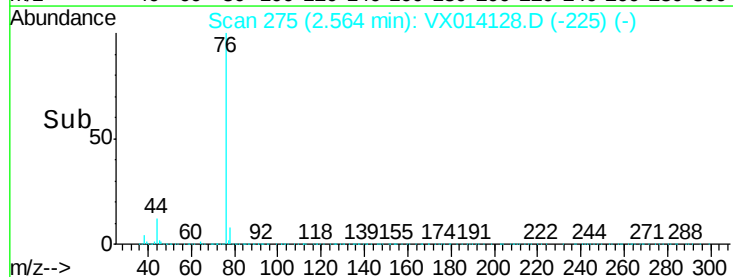
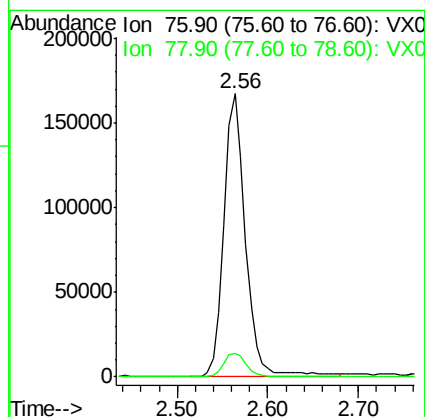
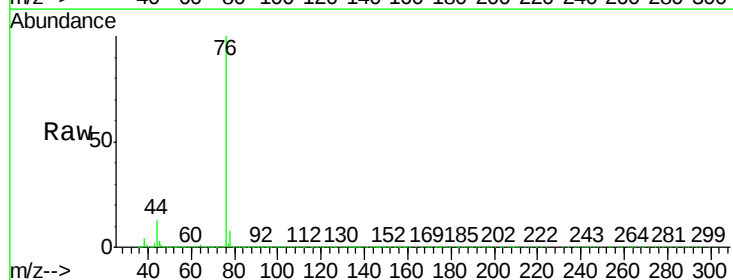
Instrument :
MSVOA_X
ClientSampled :
391218757.2

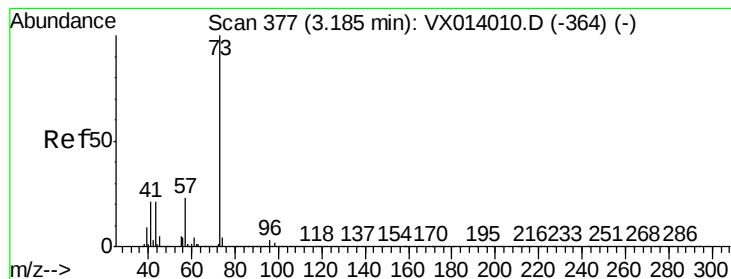
Tot Ion: 43 Resp: 1562316
Ion Ratio Lower Upper
43 100
58 31.3 24.9 37.3



#17
Carbon Disulfide
Concen: 19.679 ug/l
RT: 2.56 min Scan# 275
Delta R.T. 0.01 min
Lab File: VX014128.D
Acq: 19 Dec 2019 18:11

Tgt Ion: 76 Resp: 278565
Ion Ratio Lower Upper
76 100
78 8.2 7.2 10.8



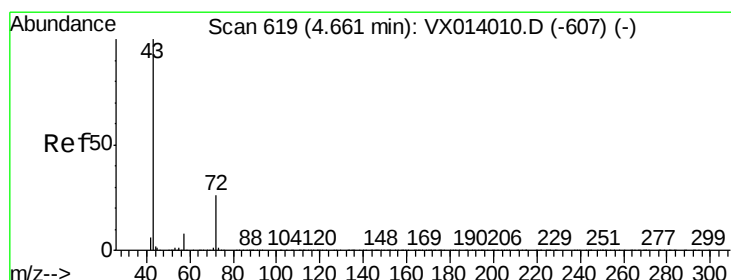
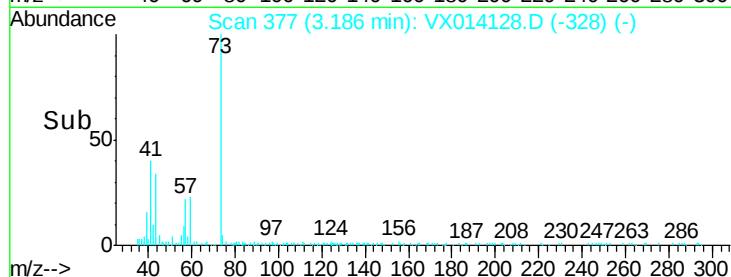
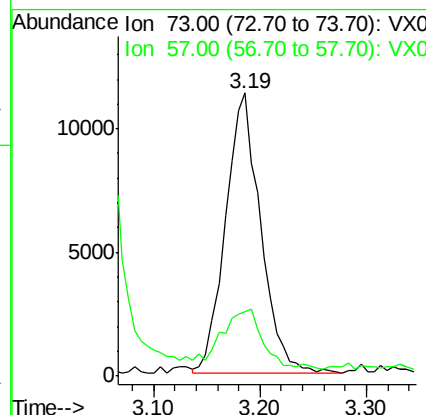
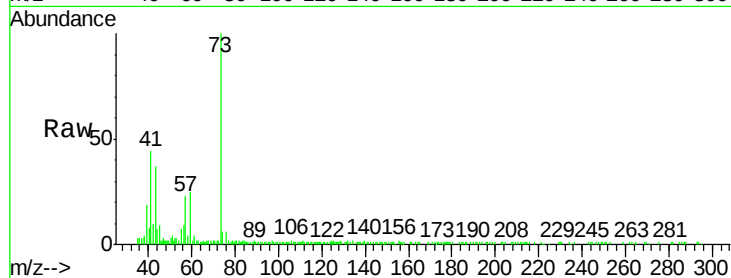


#19

Methvl tert-butvl Ether
 Concen: 1.513 ug/l
 RT: 3.19 min Scan# 377
 Delta R.T. 0.00 min
 Lab File: VX014128.D
 Acq: 19 Dec 2019 18:11

Instrument :
 MSVOA_X
 ClientSampleId :
 391218757.2

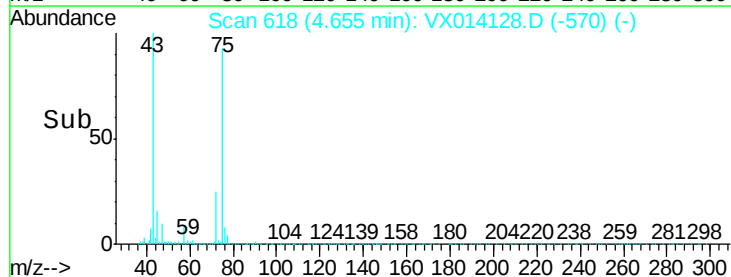
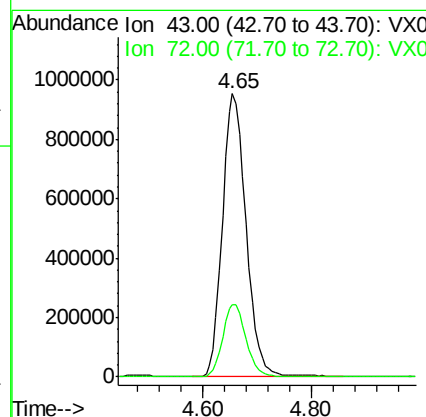
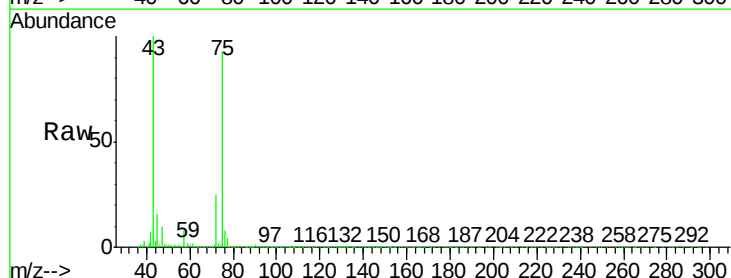
Tot Ion: 73 Resp: 25954
 Ion Ratio Lower Upper
 73 100
 57 20.0 18.8 28.2

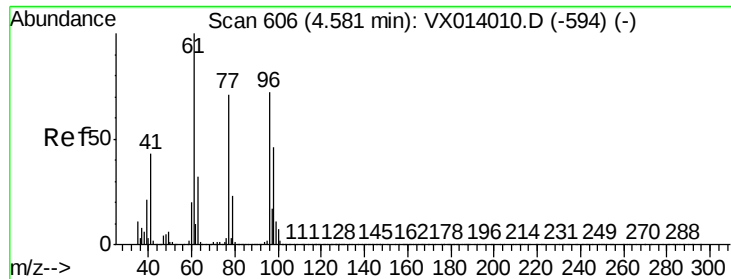


#25

2-Butanone
 Concen: 585.172 ug/l
 RT: 4.65 min Scan# 618
 Delta R.T. -0.01 min
 Lab File: VX014128.D
 Acq: 19 Dec 2019 18:11

Tgt Ion: 43 Resp: 2881482
 Ion Ratio Lower Upper
 43 100
 72 25.3 21.0 31.4



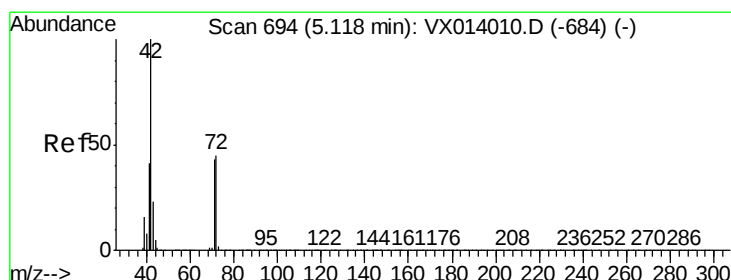
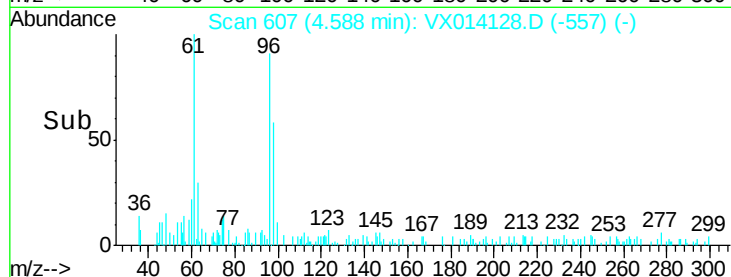
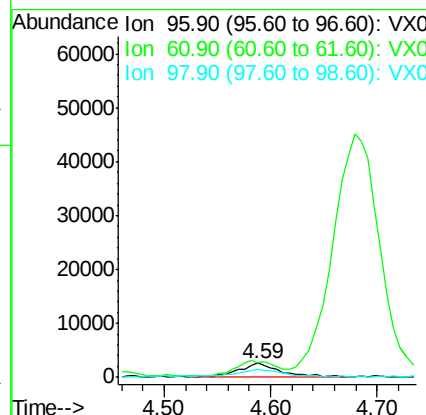
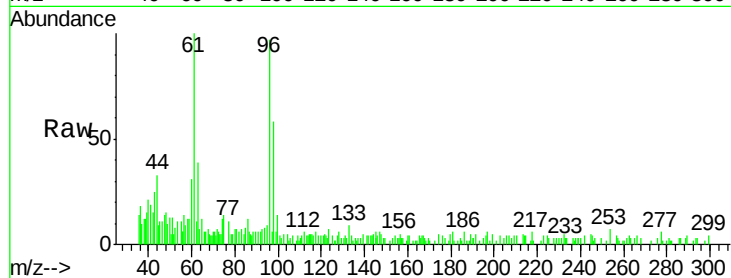


#27

cis-1,2-Dichloroethene
 Concen: 1.151 ug/l
 RT: 4.59 min Scan# 607
 Delta R.T. 0.01 min
 Lab File: VX014128.D
 Acq: 19 Dec 2019 18:11

Instrument :
 MSVOA_X
 ClientSampleId :
 391218757.2

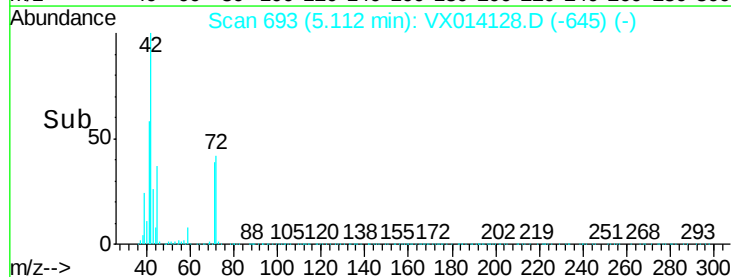
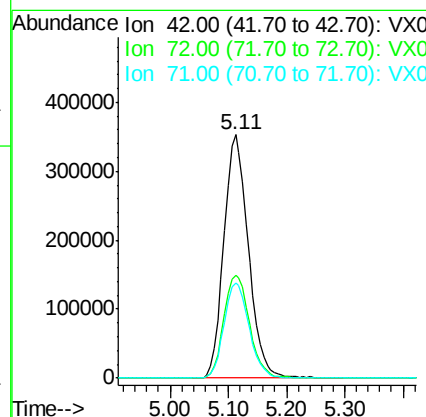
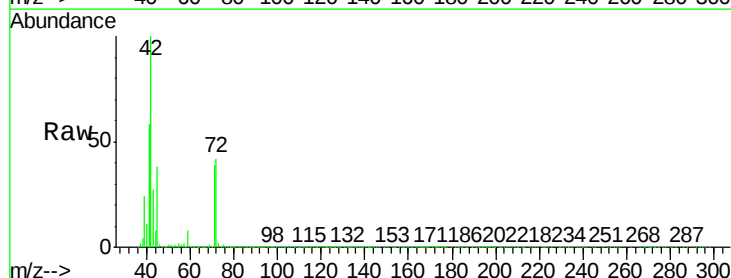
Tot Ion	Ratio	Lower	Upper
96	100		
61	98.2	0.0	288.4
98	54.7	0.0	129.6

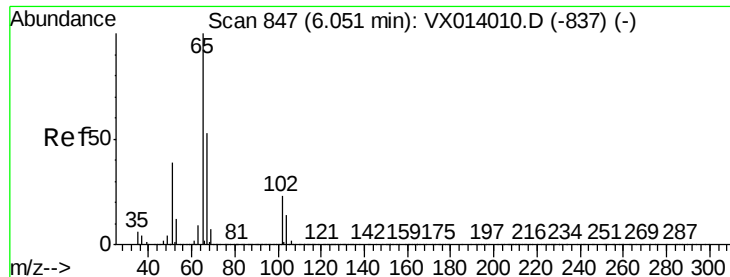


#29

Tetrahydrofuran
 Concen: 374.329 ug/l
 RT: 5.11 min Scan# 693
 Delta R.T. -0.01 min
 Lab File: VX014128.D
 Acq: 19 Dec 2019 18:11

Tgt Ion	Ratio	Lower	Upper
42	100		
72	44.0	35.8	53.8
71	39.8	33.6	50.4





#33

1,2-Dichloroethane-d4

Concen: 48.649 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX014128.D

Acq: 19 Dec 2019 18:11

Instrument :

MSVOA_X

ClientSampleId :

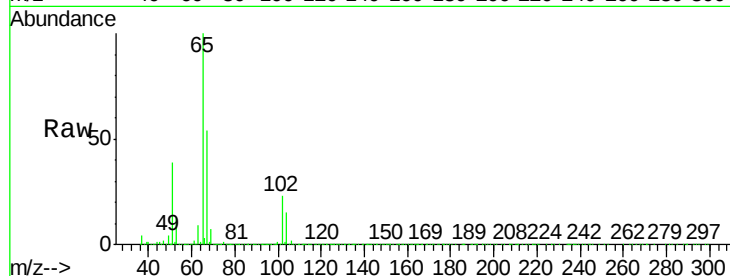
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Tot Ion: 65 Resp: 299294

Ion Ratio Lower Upper

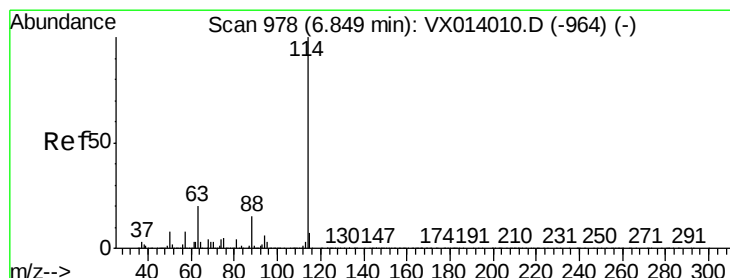
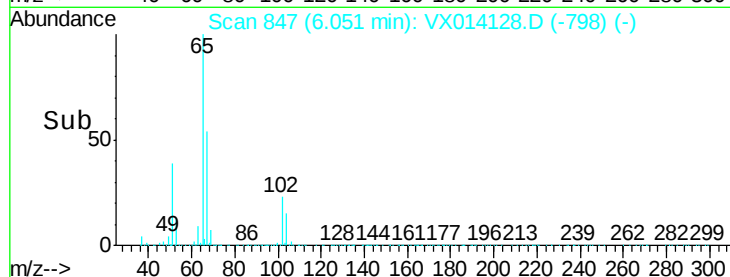
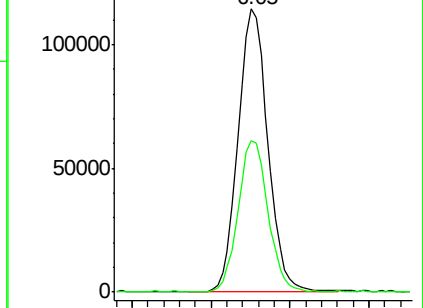
65 100

67 54.2 0.0 106.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX014128.D

Acq: 19 Dec 2019 18:11

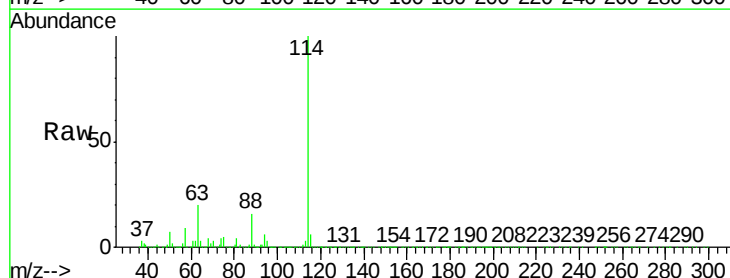
Tgt Ion: 114 Resp: 835244

Ion Ratio Lower Upper

114 100

63 20.0 0.0 40.8

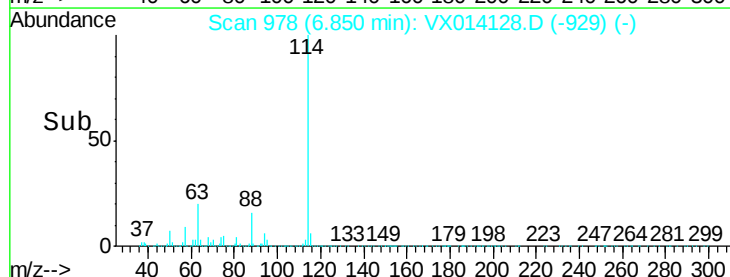
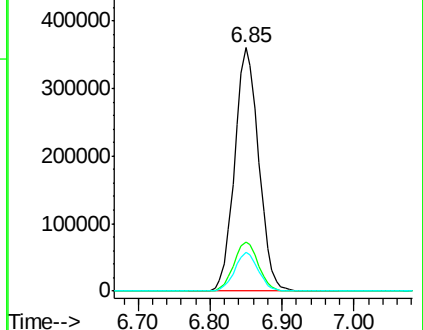
88 16.0 0.0 30.4

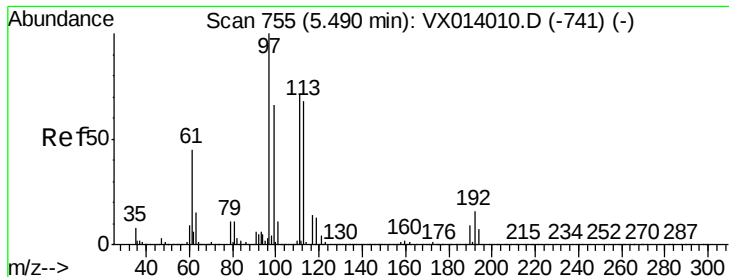


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 48.996 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014128.D

Acq: 19 Dec 2019 18:11

Instrument :

MSVOA_X

ClientSampleId :

391218757.2

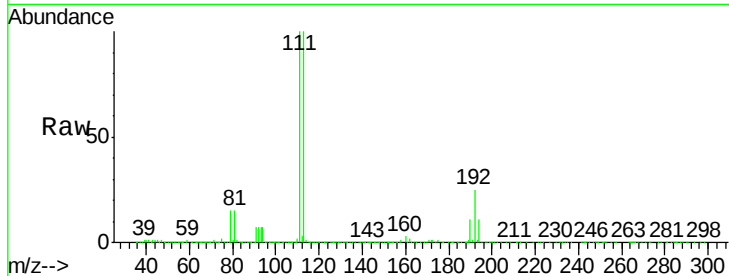
Tot Ion:113 Resp: 248772

Ion Ratio Lower Upper

113 100

111 103.6 82.0 123.0

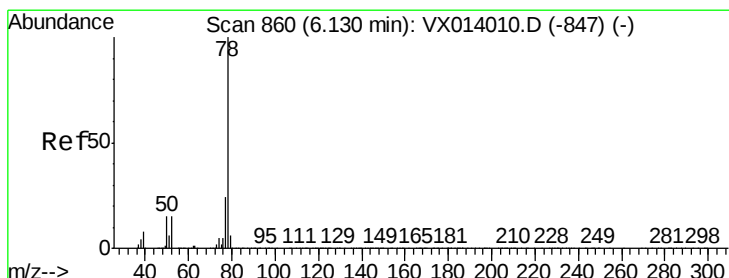
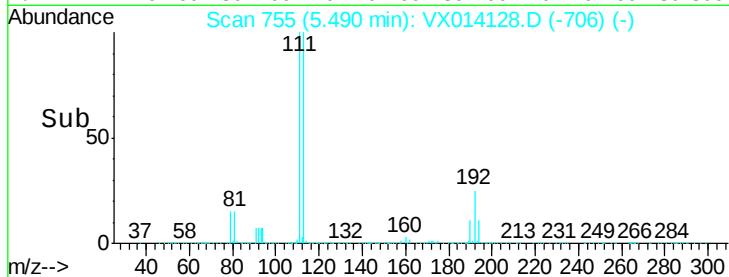
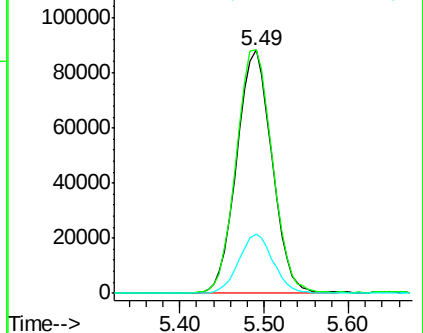
192 24.2 19.3 28.9



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#40

Benzene

Concen: 2.204 ug/l

RT: 6.13 min Scan# 860

Delta R.T. 0.00 min

Lab File: VX014128.D

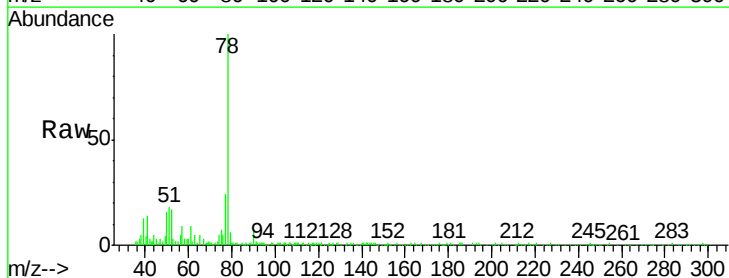
Acq: 19 Dec 2019 18:11

Tgt Ion: 78 Resp: 51966

Ion Ratio Lower Upper

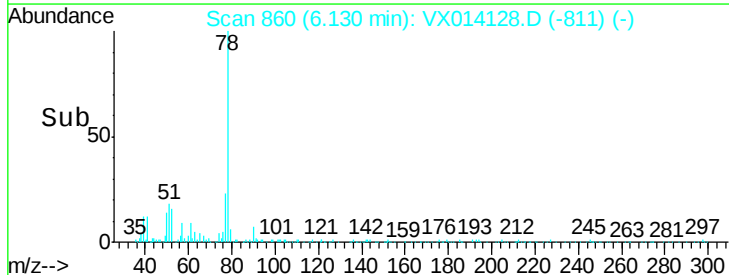
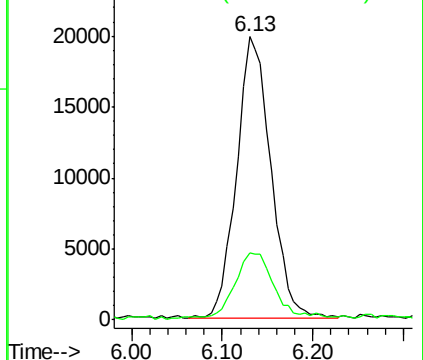
78 100

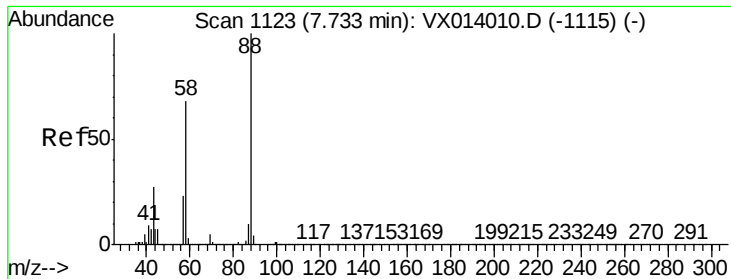
77 22.8 18.8 28.2



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0





#49

1,4-Dioxane

Concen: 64.585 ug/l

RT: 7.73 min Scan# 1123

Delta R.T. 0.00 min

Lab File: VX014128.D

Acq: 19 Dec 2019 18:11

Instrument :

MSVOA_X

ClientSampleId :

391218757.2

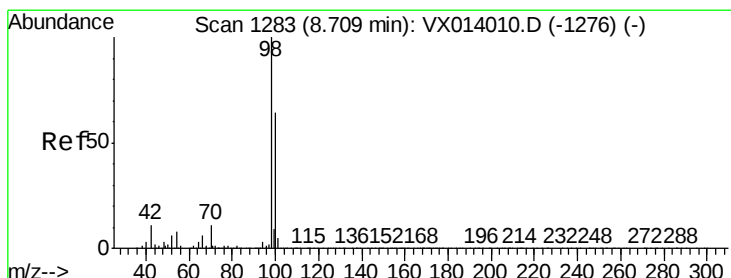
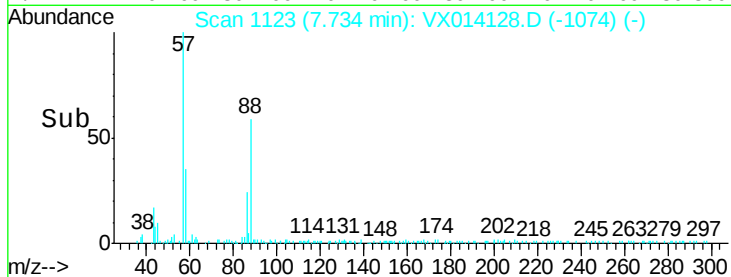
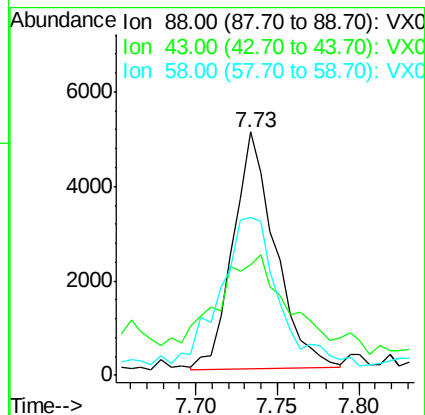
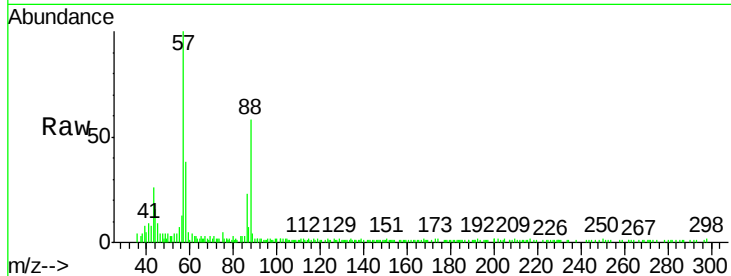
Tot Ion: 88 Resp: 9014

Ion Ratio Lower Upper

88 100

43 69.3 26.5 39.7#

58 86.3 56.8 85.2#



#50

Toluene-d8

Concen: 51.109 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014128.D

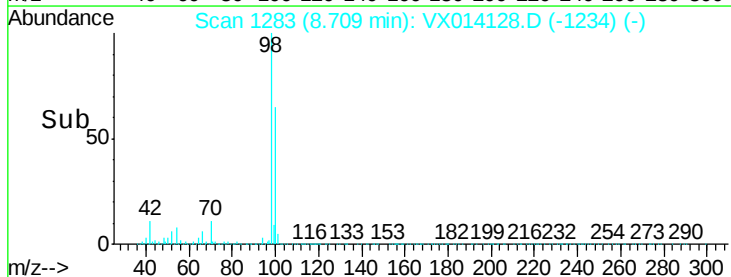
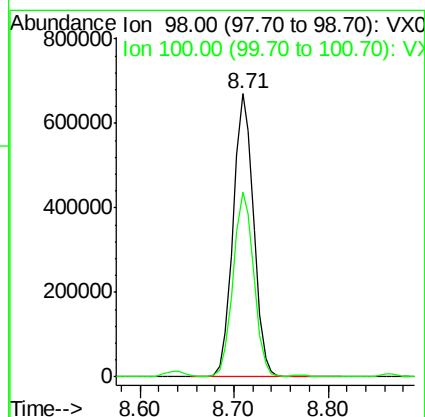
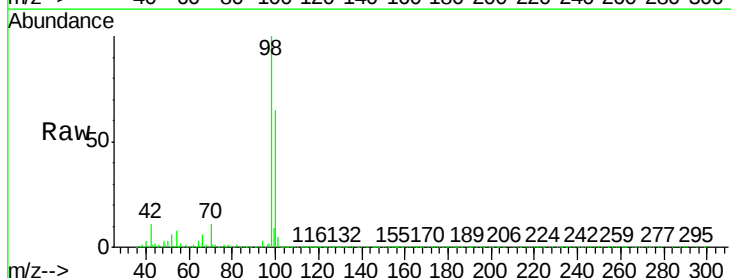
Acq: 19 Dec 2019 18:11

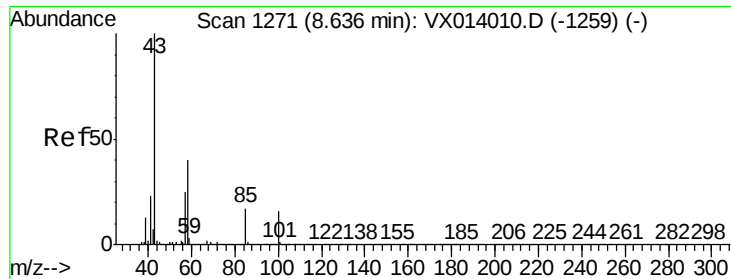
Tgt Ion: 98 Resp: 1010294

Ion Ratio Lower Upper

98 100

100 65.2 52.9 79.3





#51

4-Methyl-2-Pentanone

Concen: 17.326 ug/l

RT: 8.64 min Scan# 1271

Delta R.T. 0.00 min

Lab File: VX014128.D

Acq: 19 Dec 2019 18:11

Instrument :

MSVOA_X

ClientSampled :

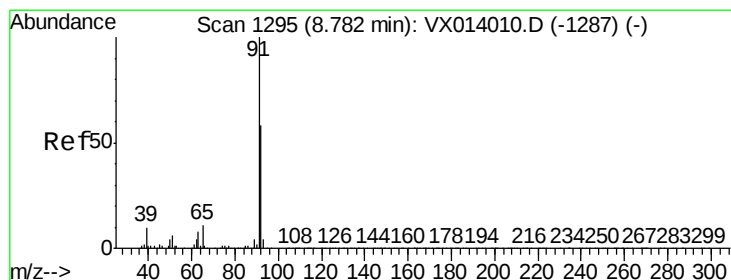
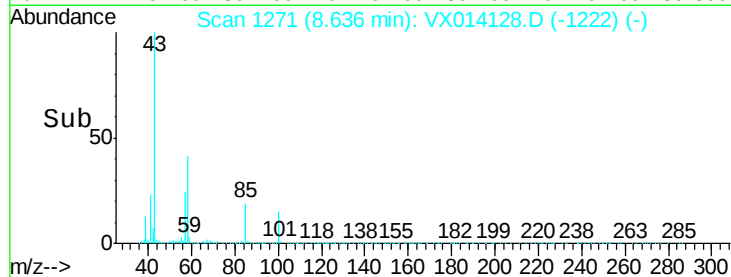
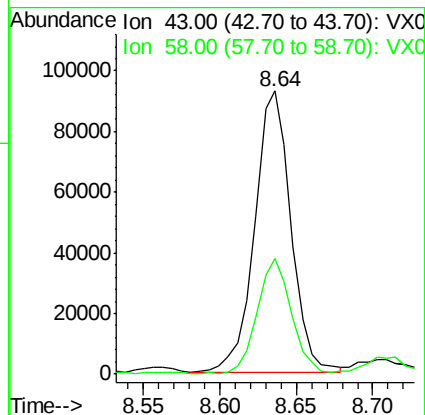
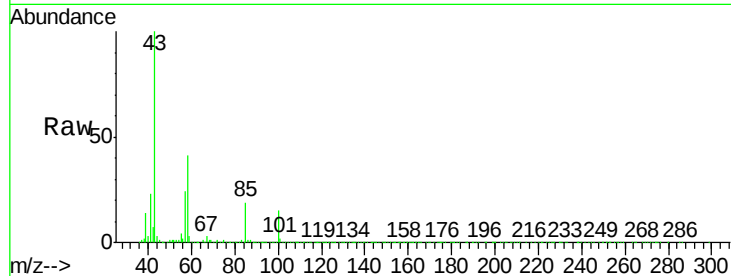
391218757.2

Tot Ion: 43 Resp: 152403

Ion Ratio Lower Upper

43 100

58 38.3 32.2 48.2



#52

Toluene

Concen: 9.826 ug/l

RT: 8.78 min Scan# 1295

Delta R.T. 0.00 min

Lab File: VX014128.D

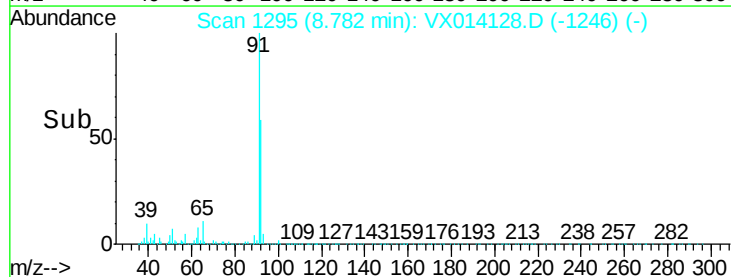
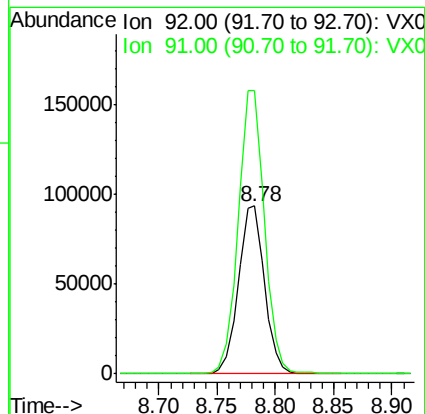
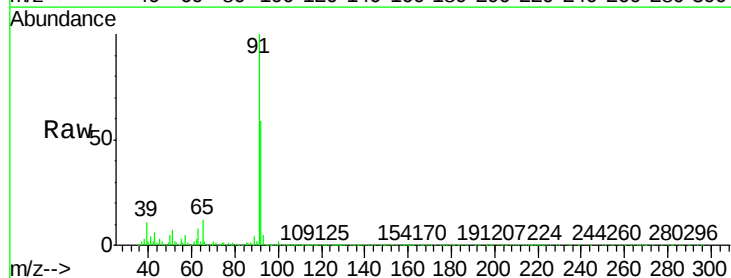
Acq: 19 Dec 2019 18:11

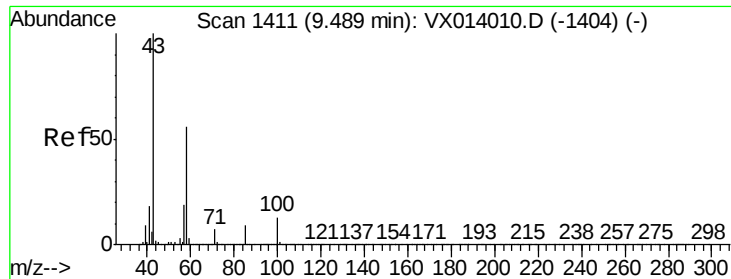
Tgt Ion: 92 Resp: 146449

Ion Ratio Lower Upper

92 100

91 168.6 136.2 204.4

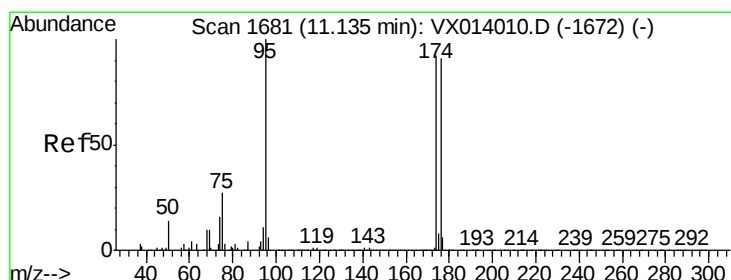
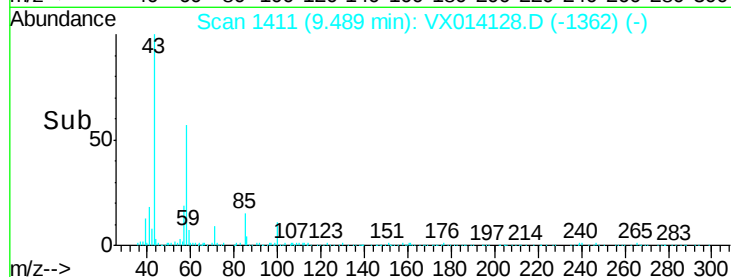
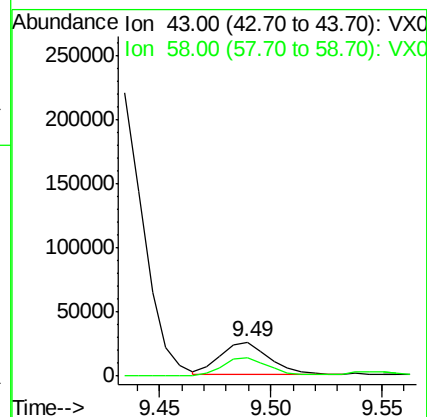
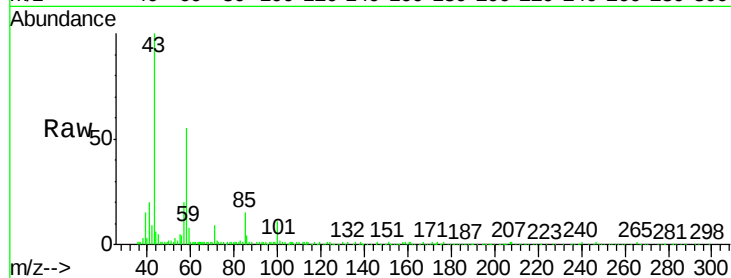




#59
2-Hexanone
Concen: 5.363 ug/l
RT: 9.49 min Scan# 1411
Delta R.T. 0.00 min
Lab File: VX014128.D
Acq: 19 Dec 2019 18:11

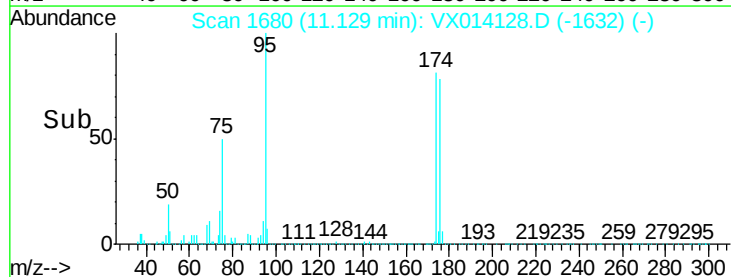
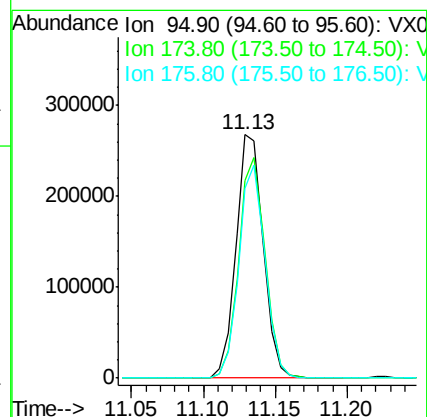
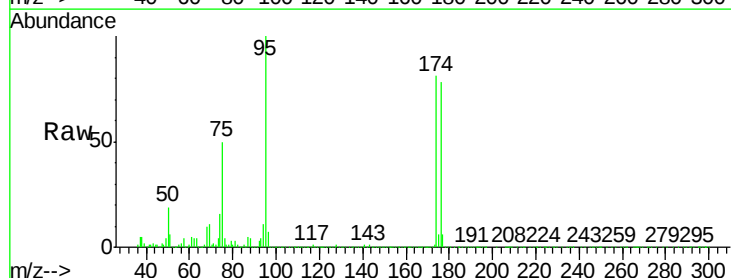
Instrument :
MSVOA_X
ClientSampleId :
391218757.2

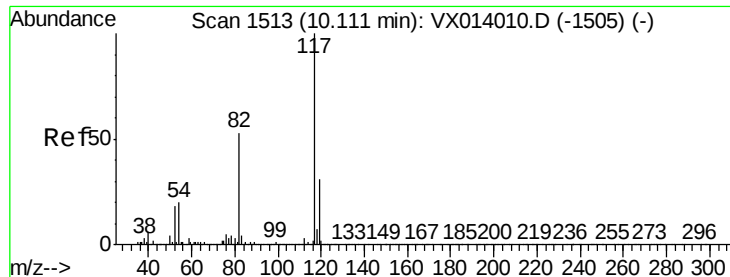
Tot Ion: 43 Resp: 37974
Ion Ratio Lower Upper
43 100
58 54.5 28.0 84.0



#62
4-Bromofluorobenzene
Concen: 48.897 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.01 min
Lab File: VX014128.D
Acq: 19 Dec 2019 18:11

Tgt Ion: 95 Resp: 353327
Ion Ratio Lower Upper
95 100
174 87.9 0.0 175.8
176 84.6 0.0 173.0

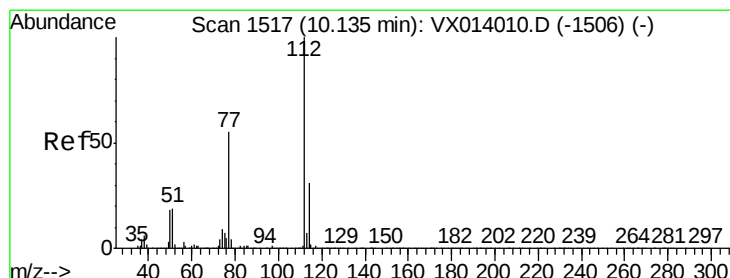
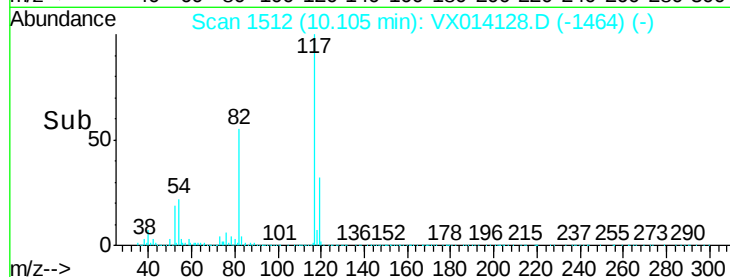
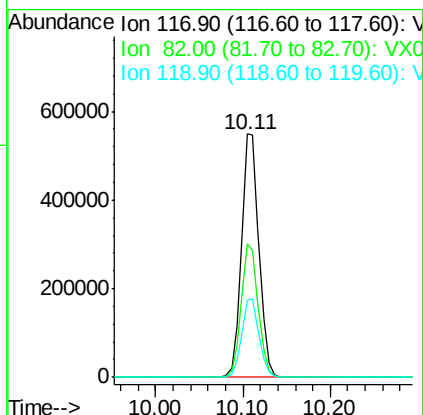
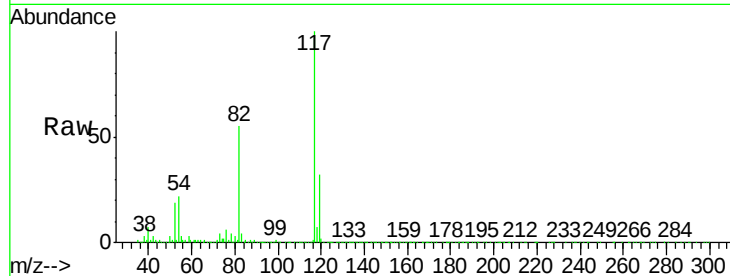




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1512
Delta R.T. -0.01 min
Lab File: VX014128.D
Acq: 19 Dec 2019 18:11

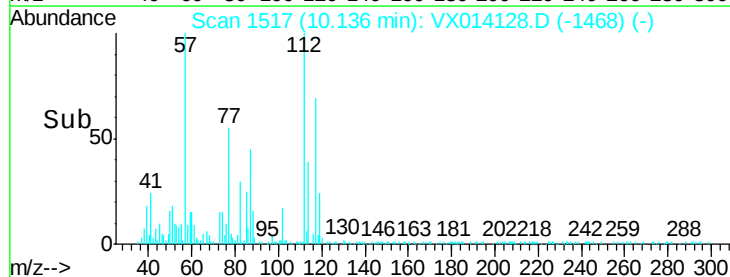
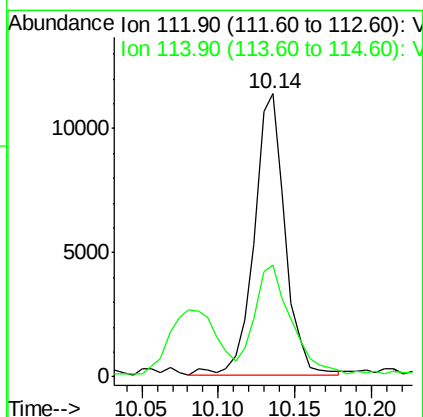
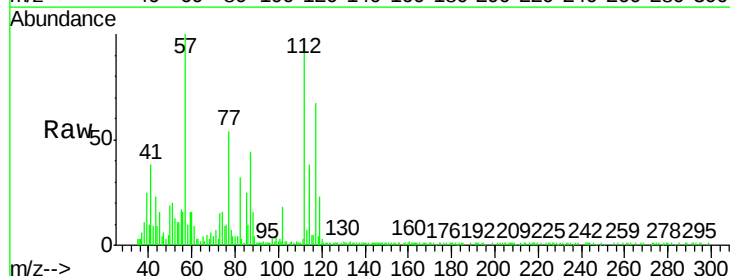
Instrument :
MSVOA_X
ClientSampleId :
391218757.2

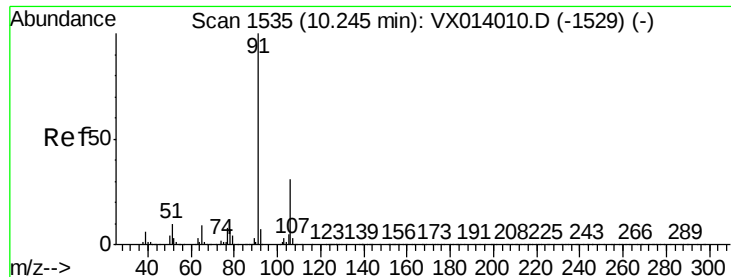
Tot Ion	Ratio	Lower	Upper
117	100		
82	54.6	42.2	63.4
119	31.9	25.1	37.7



#65
Chlorobenzene
Concen: 0.971 ug/l
RT: 10.14 min Scan# 1517
Delta R.T. 0.00 min
Lab File: VX014128.D
Acq: 19 Dec 2019 18:11

Tgt Ion	Ratio	Lower	Upper
112	100		
114	37.4	24.9	37.3#





#67

Ethyl Benzene

Concen: 4.712 ug/l

RT: 10.25 min Scan# 1535

Delta R.T. 0.00 min

Lab File: VX014128.D

Acq: 19 Dec 2019 18:11

Instrument :

MSVOA_X

ClientSampleId :

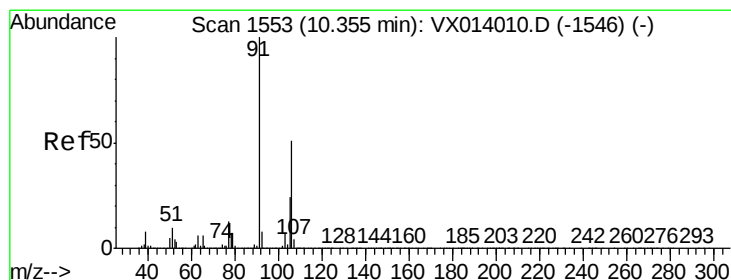
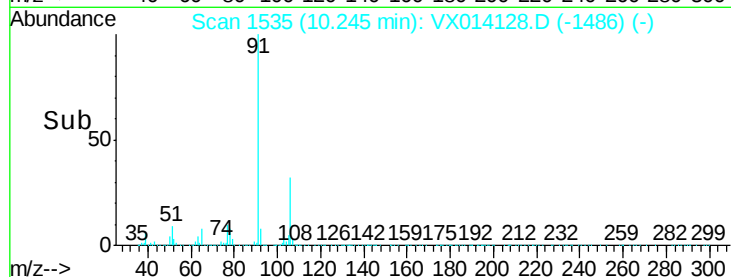
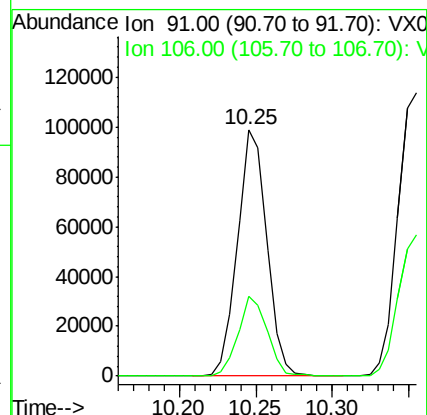
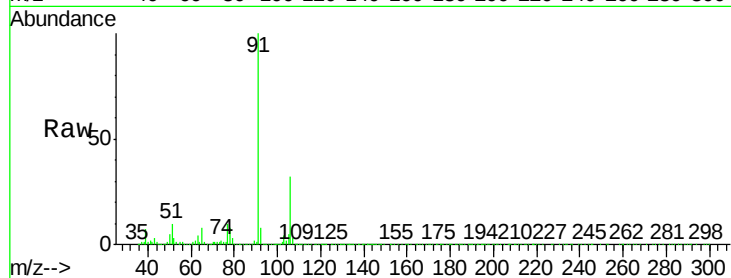
391218757.2

Tot Ion: 91 Resp: 131123

Ion Ratio Lower Upper

91 100

106 32.2 25.0 37.6



#68

m/p-Xylenes

Concen: 7.499 ug/l

RT: 10.36 min Scan# 1553

Delta R.T. 0.00 min

Lab File: VX014128.D

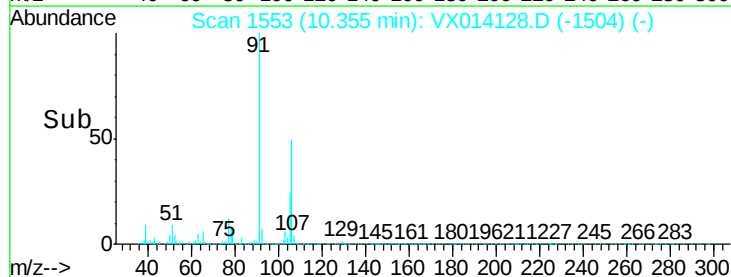
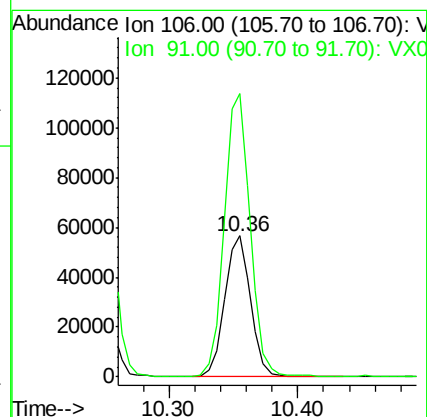
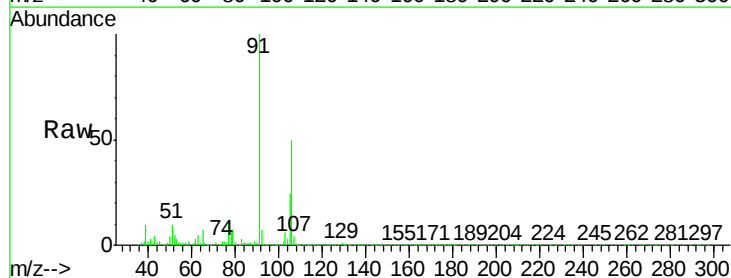
Acq: 19 Dec 2019 18:11

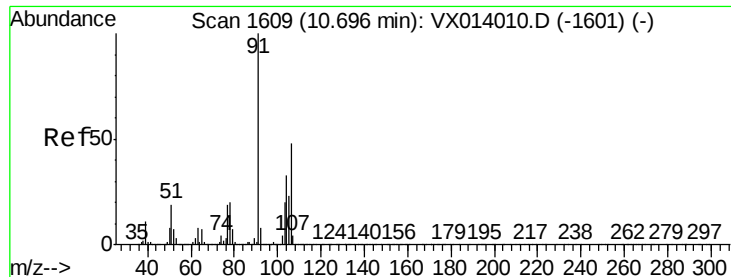
Tgt Ion: 106 Resp: 80258

Ion Ratio Lower Upper

106 100

91 198.4 158.6 238.0

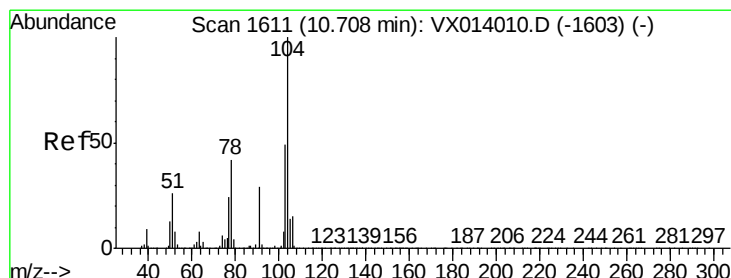
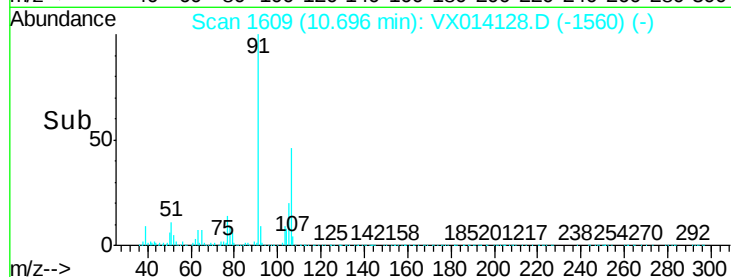
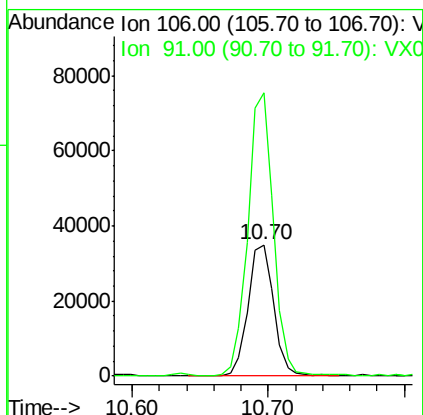
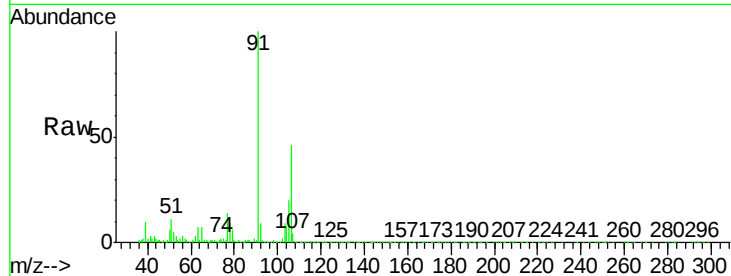




#69
o-Xylene
Concen: 4.393 ug/l
RT: 10.70 min Scan# 1609
Delta R.T. 0.00 min
Lab File: VX014128.D
Acq: 19 Dec 2019 18:11

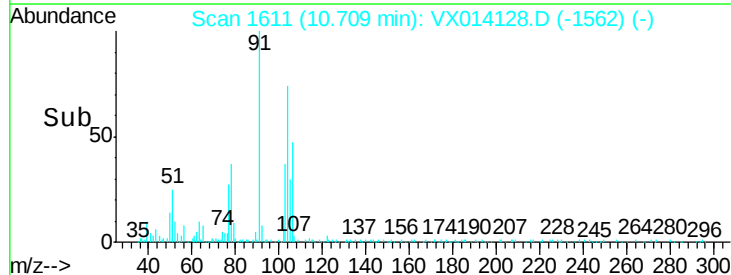
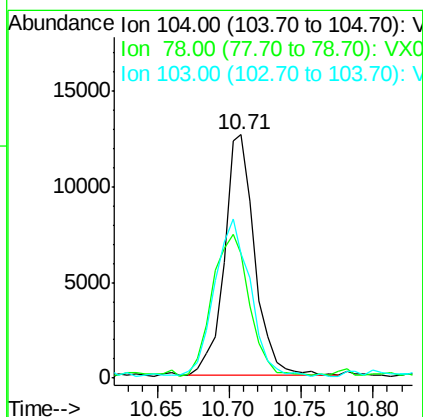
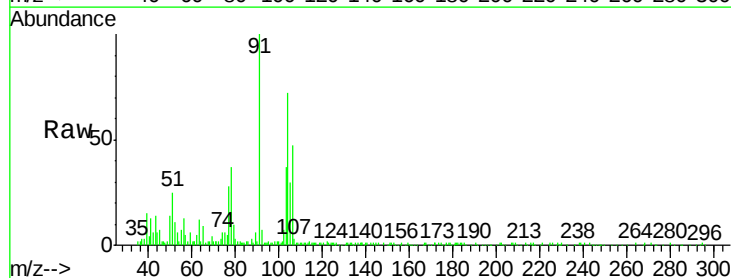
Instrument :
MSVOA_X
ClientSampleId :
391218757.2

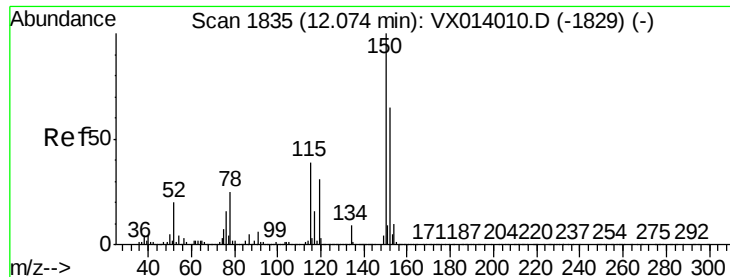
Tot Ion:106 Resp: 46110
Ion Ratio Lower Upper
106 100
91 214.5 104.2 312.6



#70
Styrene
Concen: 1.050 ug/l
RT: 10.71 min Scan# 1611
Delta R.T. 0.00 min
Lab File: VX014128.D
Acq: 19 Dec 2019 18:11

Tgt Ion:104 Resp: 18632
Ion Ratio Lower Upper
104 100
78 72.4 38.5 57.7#
103 77.5 42.9 64.3#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX014128.D

Acq: 19 Dec 2019 18:11

Instrument :

MSVOA_X

ClientSampleId :

391218757.2

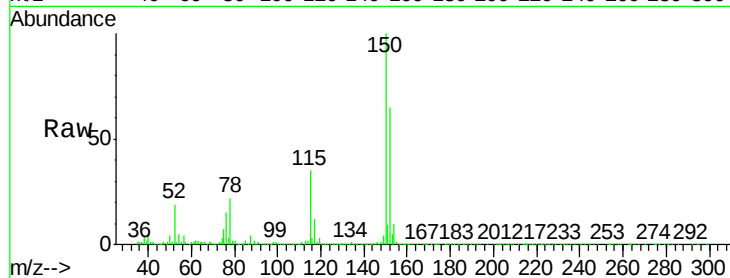
Tot Ion:152 Resp: 360920

Ion Ratio Lower Upper

152 100

115 56.8 38.3 114.9

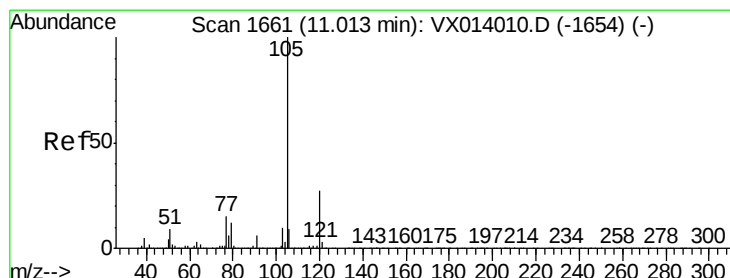
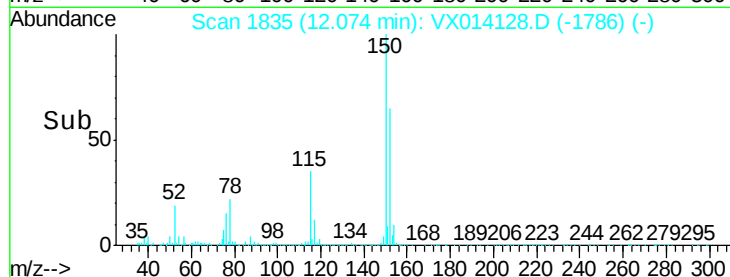
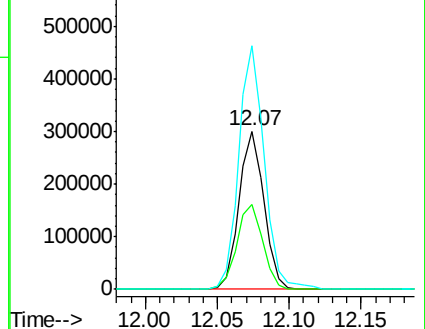
150 159.4 0.0 345.4



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



#73

Isopropylbenzene

Concen: 0.737 ug/l

RT: 11.01 min Scan# 1661

Delta R.T. 0.00 min

Lab File: VX014128.D

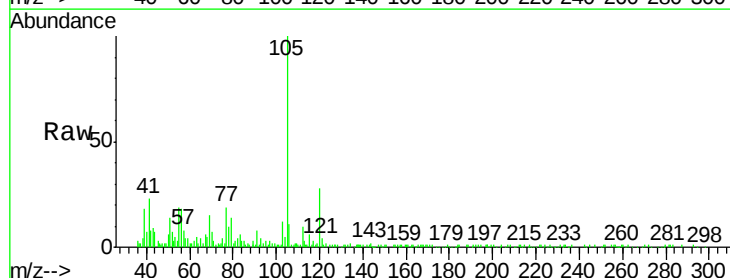
Acq: 19 Dec 2019 18:11

Tgt Ion:105 Resp: 18722

Ion Ratio Lower Upper

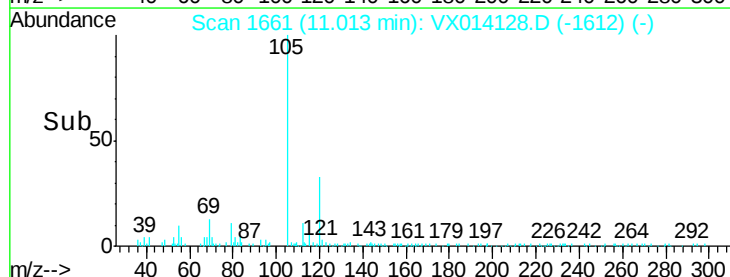
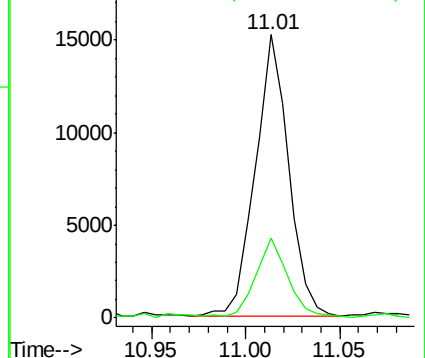
105 100

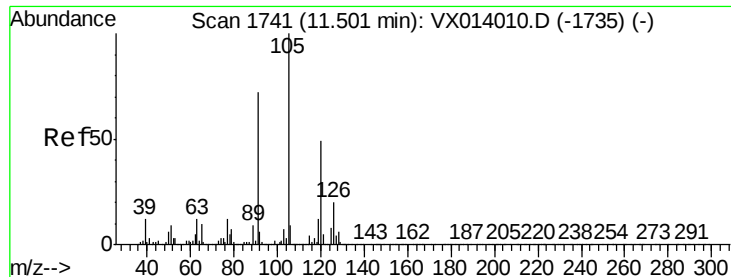
120 27.7 13.5 40.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#80

1,3,5-Trimethylbenzene

Concen: 0.748 ug/l

RT: 11.50 min Scan# 1741

Delta R.T. 0.00 min

Lab File: VX014128.D

Acq: 19 Dec 2019 18:11

Instrument :

MSVOA_X

ClientSampleId :

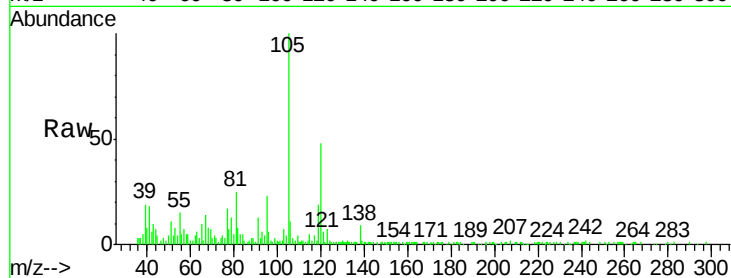
391218757.2

Tot Ion:105 Resp: 15999

Ion Ratio Lower Upper

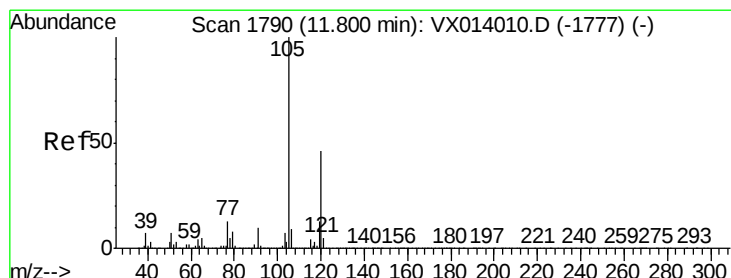
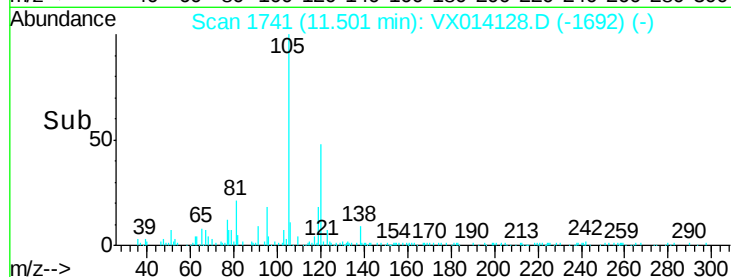
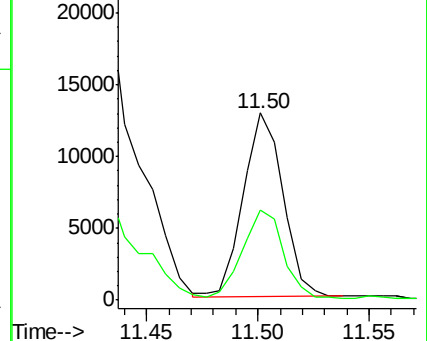
105 100

120 49.8 25.3 75.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#84

1,2,4-Trimethylbenzene

Concen: 2.559 ug/l

RT: 11.81 min Scan# 1791

Delta R.T. 0.01 min

Lab File: VX014128.D

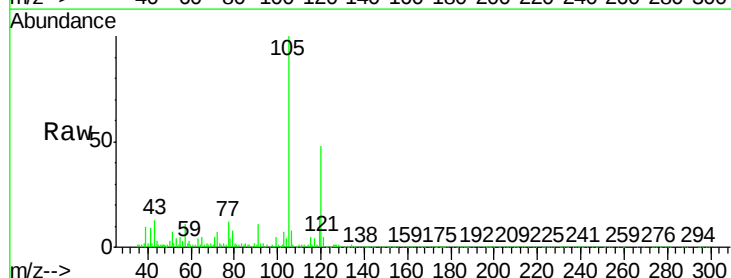
Acq: 19 Dec 2019 18:11

Tgt Ion:105 Resp: 54812

Ion Ratio Lower Upper

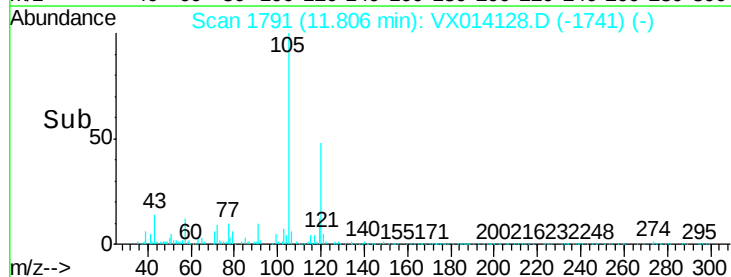
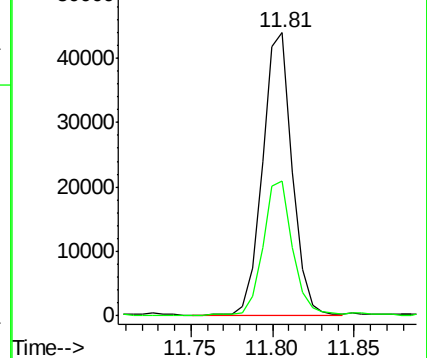
105 100

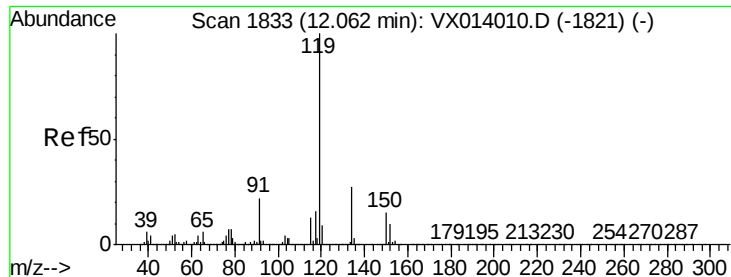
120 49.0 23.1 69.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

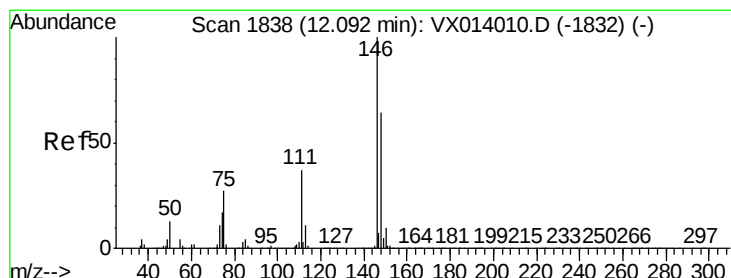
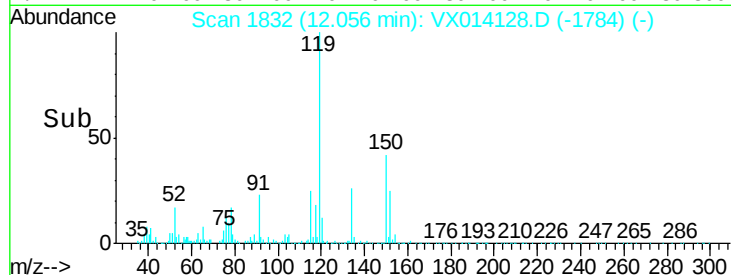
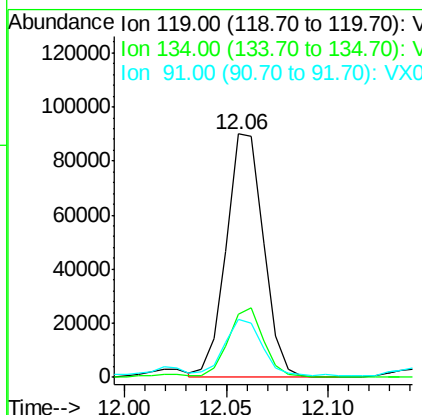
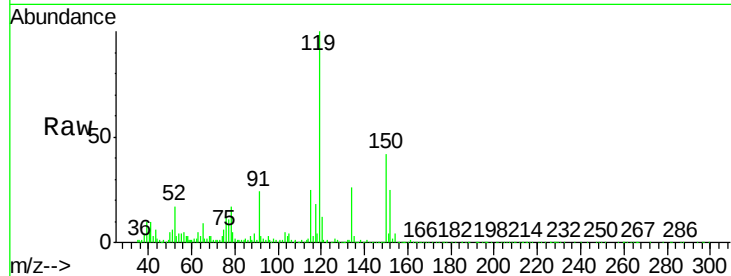




#86
p-Isopropyltoluene
Concen: 5.062 ug/l
RT: 12.06 min Scan# 1832
Delta R.T. -0.01 min
Lab File: VX014128.D
Acq: 19 Dec 2019 18:11

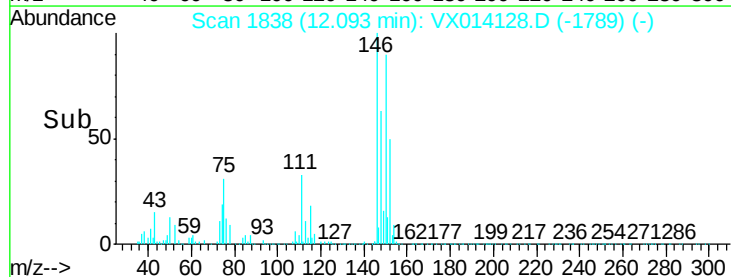
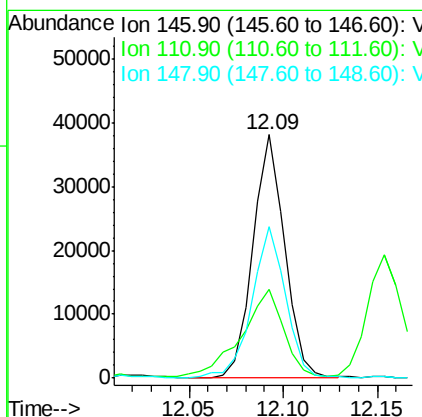
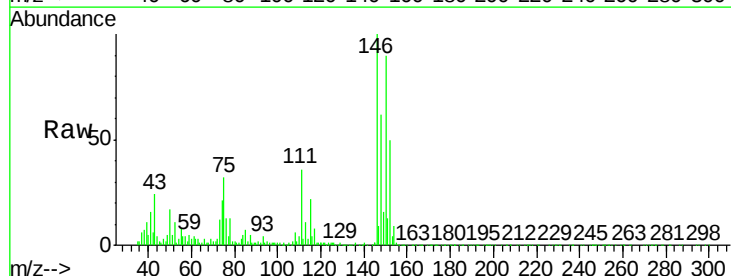
Instrument :
MSVOA_X
ClientSampleId :
391218757.2

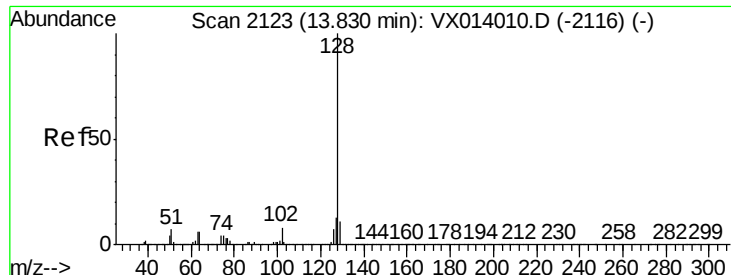
Tot Ion:119 Resp: 113778
Ion Ratio Lower Upper
119 100
134 27.0 13.4 40.1
91 24.1 11.4 34.1



#88
1,4-Dichlorobenzene
Concen: 3.548 ug/l
RT: 12.09 min Scan# 1838
Delta R.T. 0.00 min
Lab File: VX014128.D
Acq: 19 Dec 2019 18:11

Tgt Ion:146 Resp: 44212
Ion Ratio Lower Upper
146 100
111 46.8 18.7 56.1
148 67.2 31.9 95.9





#95

Naphthalene

Concen: 16.307 ug/l

RT: 13.83 min Scan# 2123

Delta R.T. 0.00 min

Lab File: VX014128.D

Acq: 19 Dec 2019 18:11

Instrument :

MSVOA_X

ClientSampleId :

391218757.2

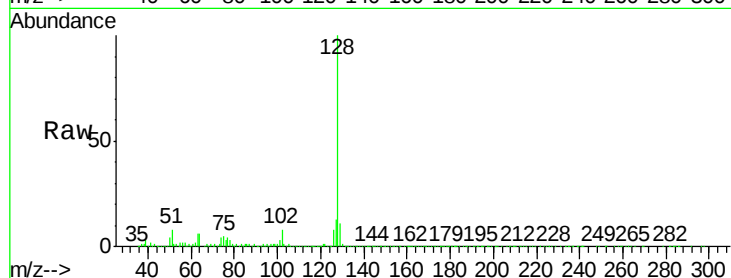
Tot Ion:128 Resp: 384115

Ion Ratio Lower Upper

128 100

127 13.0 10.2 15.4

129 11.5 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

