

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX012420\
 Data File : VX014698.D
 Acq On : 24 Jan 2020 15:31
 Operator : JC/SP
 Sample : L1256-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TANK-1

Quant Time: Jan 24 22:27:40 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X011520W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jan 15 12:41:12 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	69728	30.00	ug/l	0.01
28) 1,4-Difluorobenzene	6.85	114	374088	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	342075	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	149913	30.59	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.97%
60) 4-Bromofluorobenzene	11.14	95	161690	29.54	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.47%
63) Toluene-d8	8.71	98	457967	29.64	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.80%

Target Compounds

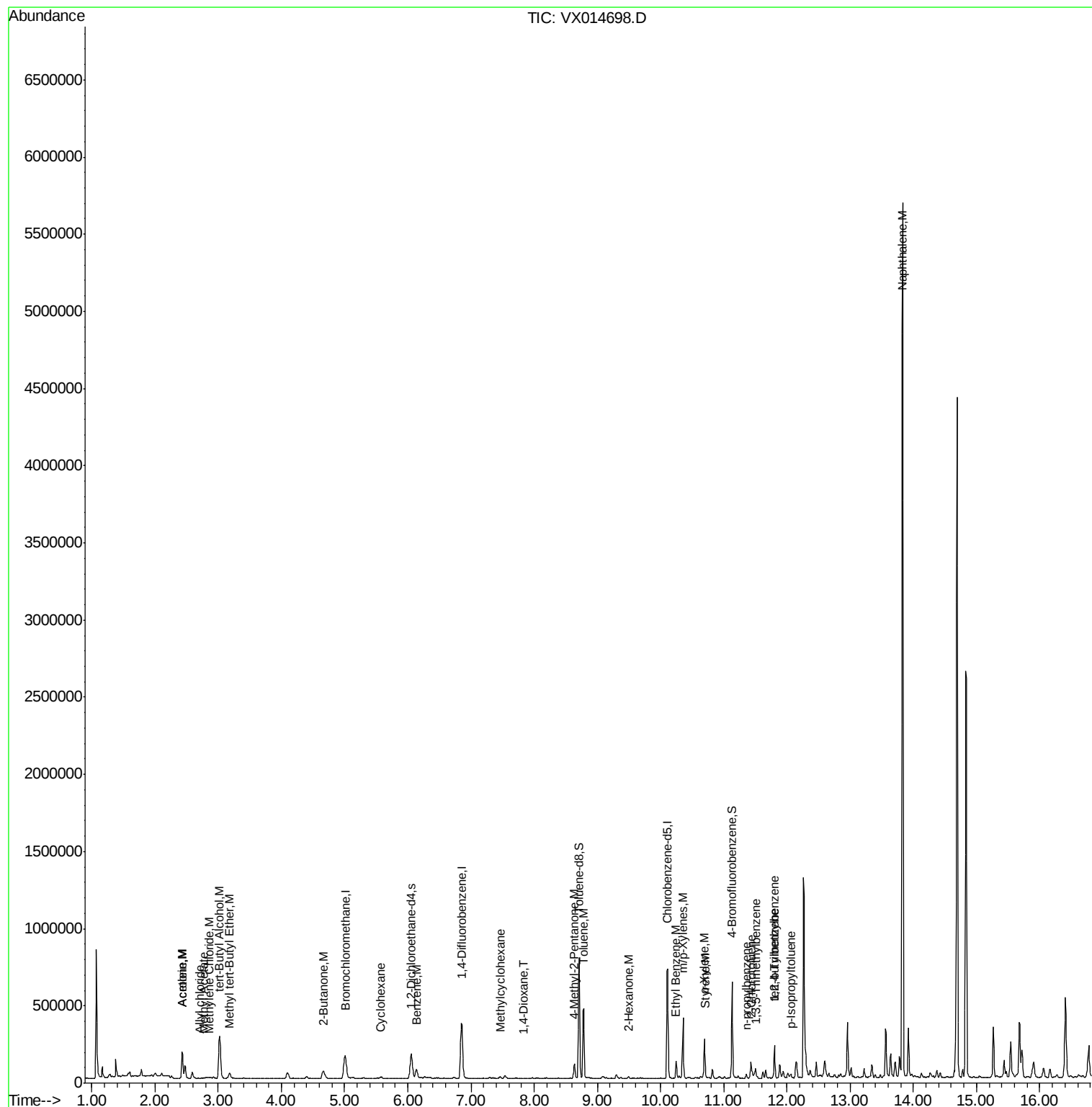
					Ovalue
12) Methyl Acetate	2.76	43	4935	0.708 ug/l	98
13) Acrolein	2.42	56	388	0.530 ug/l	100
15) Acetone	2.43	58	58743	73.440 ug/l	90
17) Allyl chloride	2.70	41	3872	0.542 ug/l #	45
18) Methylene Chloride	2.86	84	1487	0.329 ug/l #	83
23) tert-Butyl Alcohol	3.02	59	316186	320.434 ug/l #	100
24) Methyl tert-Butyl Ether	3.18	73	33671	2.621 ug/l	94
26) Cyclohexane	5.56	56	3020	0.426 ug/l #	52
30) 2-Butanone	4.66	43	84652	24.358 ug/l	98
34) Benzene	6.14	78	69645	4.108 ug/l	96
38) Methylcyclohexane	7.45	83	4448	0.651 ug/l	89
45) 1,4-Dioxane	7.83	88	218	2.147 ug/l	87
58) 4-Methyl-2-Pentanone	8.64	43	54937	8.528 ug/l	100
59) 2-Hexanone	9.49	43	8030	1.612 ug/l	97
62) Toluene	8.78	91	296299	16.326 ug/l	99
66) Ethyl Benzene	10.25	91	66375	3.358 ug/l	99
67) m/p-Xylenes	10.35	106	94296	12.453 ug/l	98
68) o-Xylene	10.70	106	55811	7.569 ug/l	96
69) Styrene	10.71	104	7618	0.610 ug/l #	1
74) n-propylbenzene	11.35	91	14251	0.646 ug/l	98
75) 2-Chlorotoluene	11.43	91	8419	0.636 ug/l	43
76) 1,3,5-Trimethylbenzene	11.50	105	24070	1.495 ug/l	99
79) tert-butylbenzene	11.80	119	11955	0.794 ug/l	56
80) 1,2,4-Trimethylbenzene	11.81	105	93647	5.833 ug/l	99
82) p-Isopropyltoluene	12.06	119	10871	0.639 ug/l	92
91) Naphthalene	13.83	128	3435238	191.117 ug/l	100

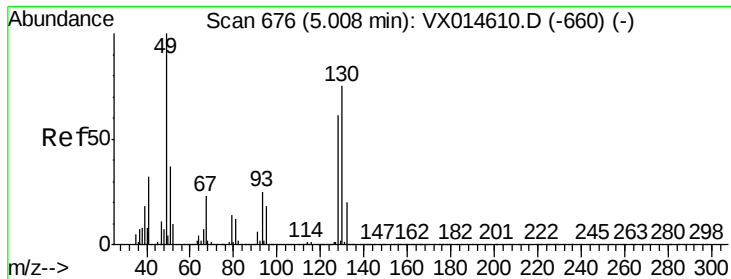
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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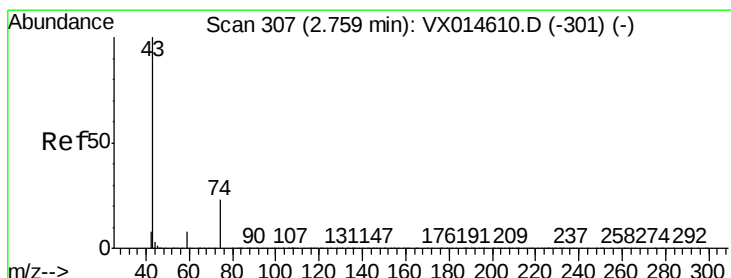
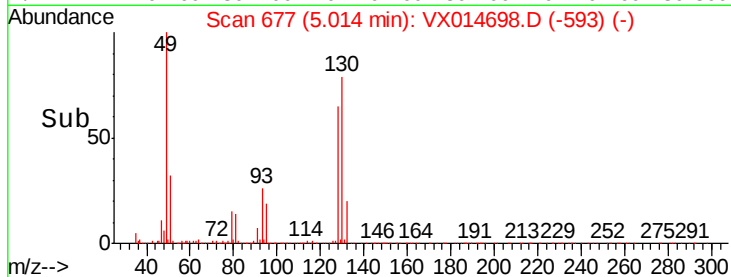
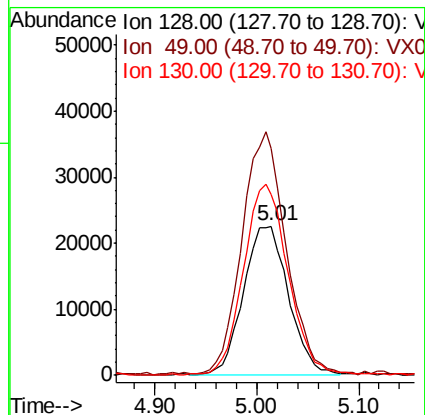
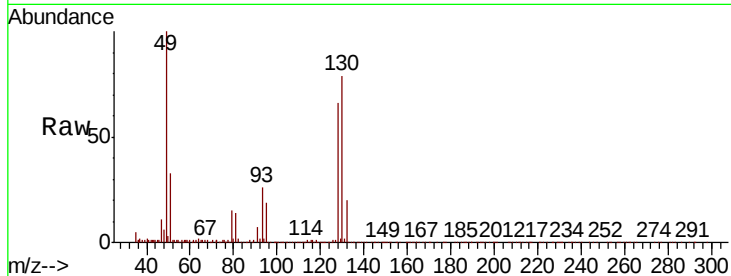


#1

Bromochloromethane
 Concen: 30.000 ug/l
 RT: 5.01 min Scan# 677
 Delta R.T. 0.01 min
 Lab File: VX014698.D
 Acq: 24 Jan 2020 15:31

Instrument :
 MSVOA_X
 ClientSampleId :
 TANK-1

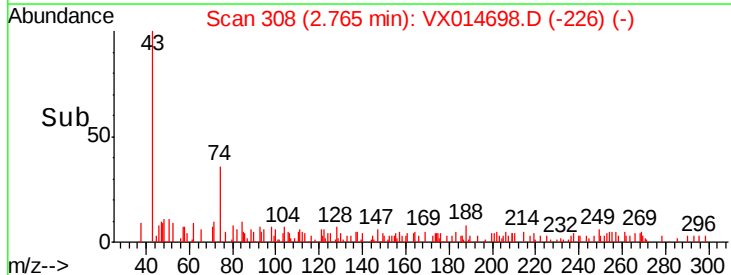
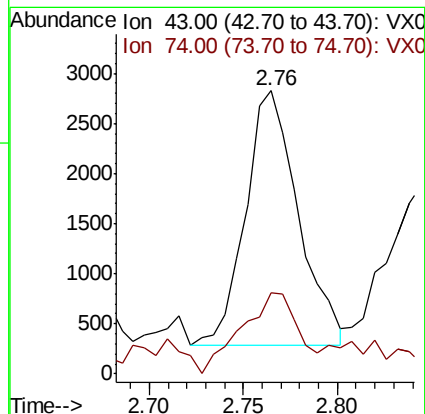
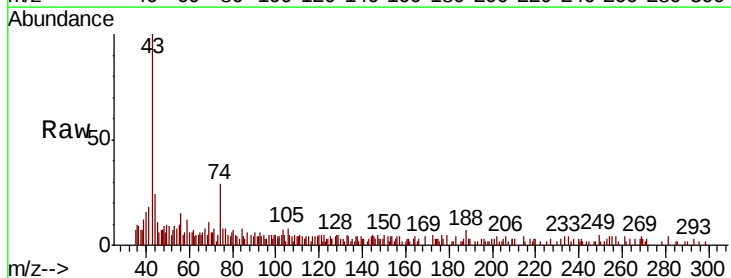
Tot Ion:128 Resp: 69728
 Ion Ratio Lower Upper
 128 100
 49 158.5 0.0 405.0
 130 126.7 0.0 321.5

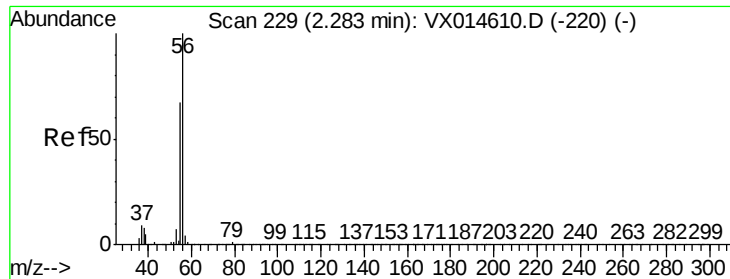


#12

Methyl Acetate
 Concen: 0.708 ug/l
 RT: 2.76 min Scan# 308
 Delta R.T. 0.00 min
 Lab File: VX014698.D
 Acq: 24 Jan 2020 15:31

Tgt Ion: 43 Resp: 4935
 Ion Ratio Lower Upper
 43 100
 74 23.9 18.5 27.7

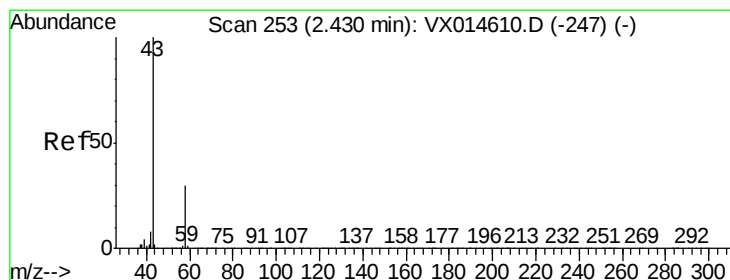
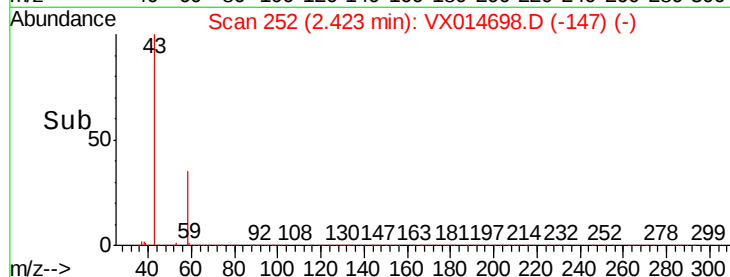
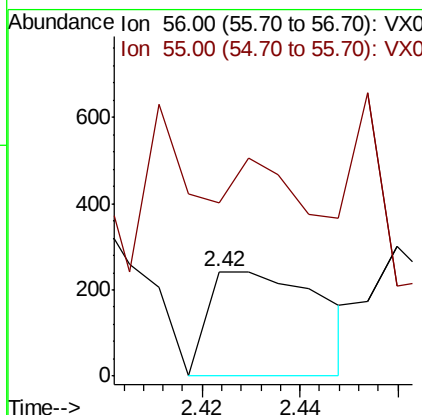
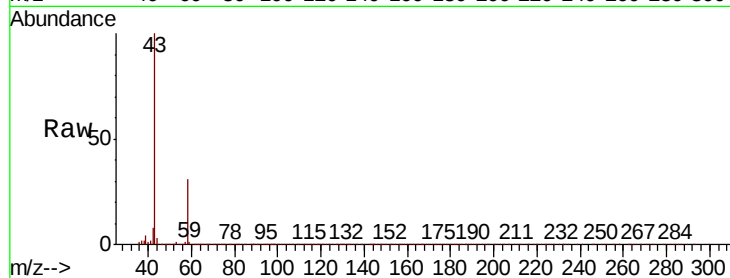




#13
Acrolein
Concen: 0.530 ug/l
RT: 2.42 min Scan# 252
Delta R.T. 0.14 min
Lab File: VX014698.D
Acq: 24 Jan 2020 15:31

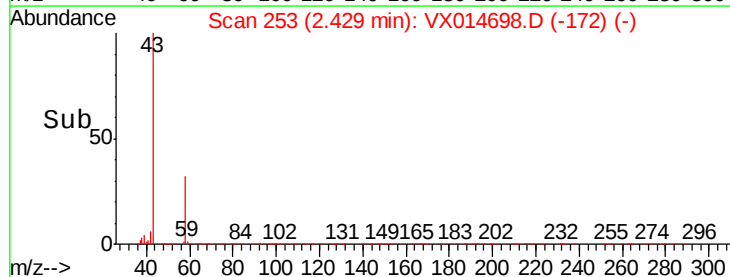
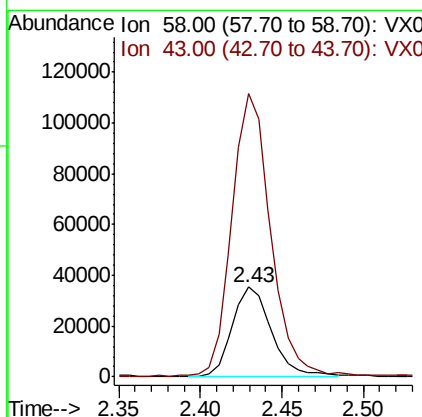
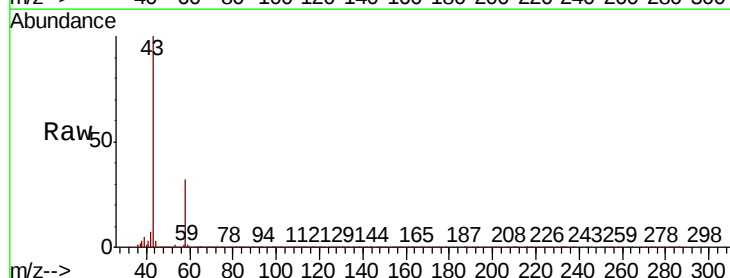
Instrument :
MSVOA_X
ClientSampleId :
TANK-1

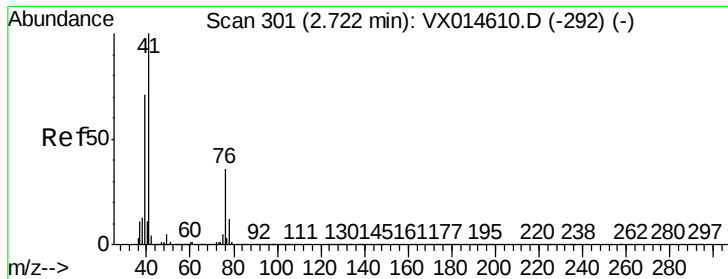
Tot Ion: 56 Resp: 388
Ion Ratio Lower Upper
56 100
55 68.8 54.9 82.3



#15
Acetone
Concen: 73.440 ug/l
RT: 2.43 min Scan# 253
Delta R.T. -0.01 min
Lab File: VX014698.D
Acq: 24 Jan 2020 15:31

Tgt Ion: 58 Resp: 58743
Ion Ratio Lower Upper
58 100
43 314.8 236.3 354.5

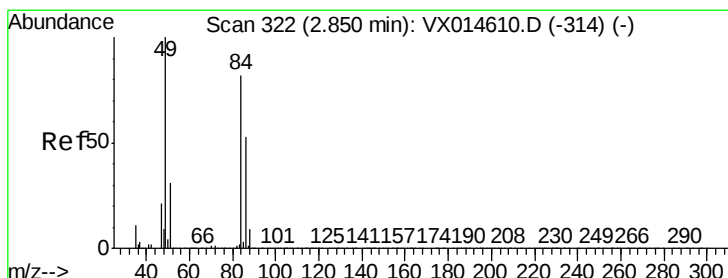
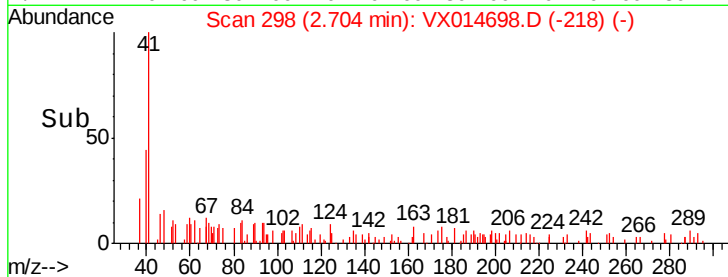
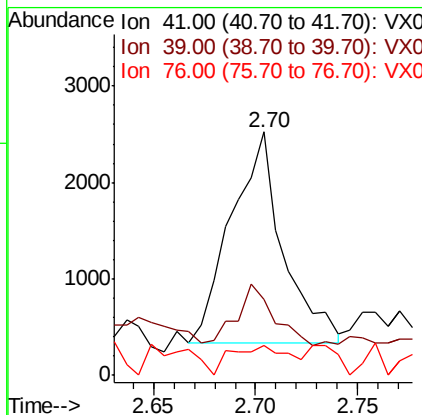
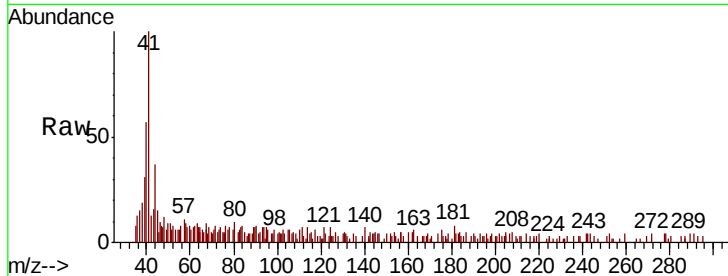




#17
Allvl chloride
Concen: 0.542 ug/l
RT: 2.70 min Scan# 298
Delta R.T. -0.01 min
Lab File: VX014698.D
Acq: 24 Jan 2020 15:31

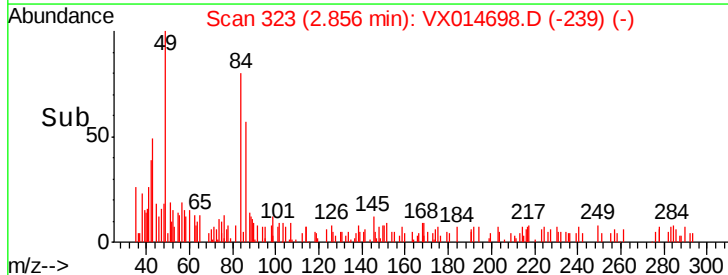
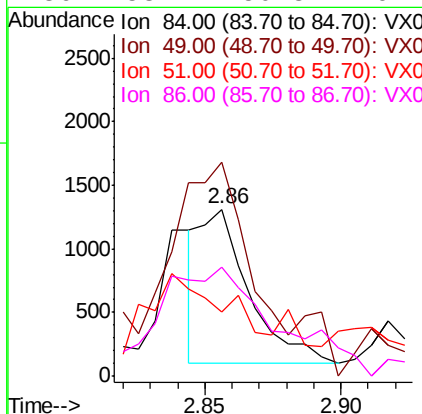
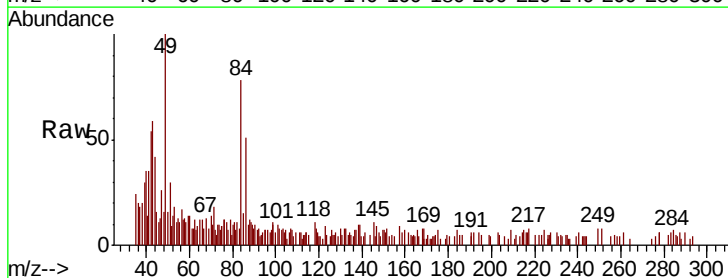
Instrument :
MSVOA_X
ClientSampleId :
TANK-1

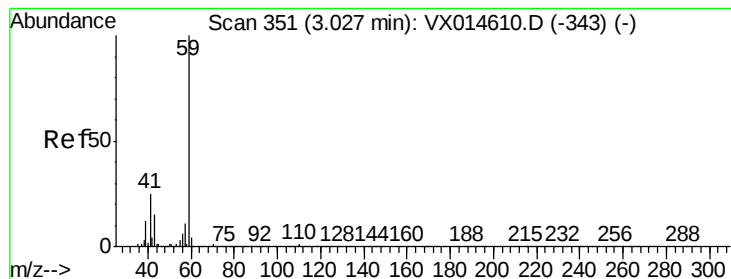
Tot Ion: 41 Resp: 3872
Ion Ratio Lower Upper
41 100
39 21.2 33.4 100.2#
76 4.2 17.0 50.9#



#18
Methylene Chloride
Concen: 0.329 ug/l
RT: 2.86 min Scan# 323
Delta R.T. 0.01 min
Lab File: VX014698.D
Acq: 24 Jan 2020 15:31

Tgt Ion: 84 Resp: 1487
Ion Ratio Lower Upper
84 100
49 139.3 102.2 153.2
51 12.6 31.4 47.0#
86 53.2 50.8 76.2





#23

tert-Butyl Alcohol

Concen: 320.434 ug/l

RT: 3.02 min Scan# 350

Delta R.T. -0.02 min

Lab File: VX014698.D

Acq: 24 Jan 2020 15:31

Instrument :

MSVOA_X

ClientSampleId :

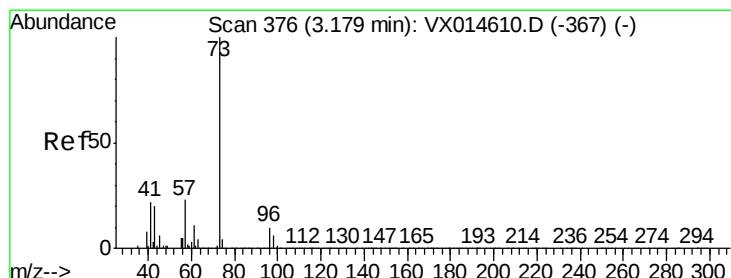
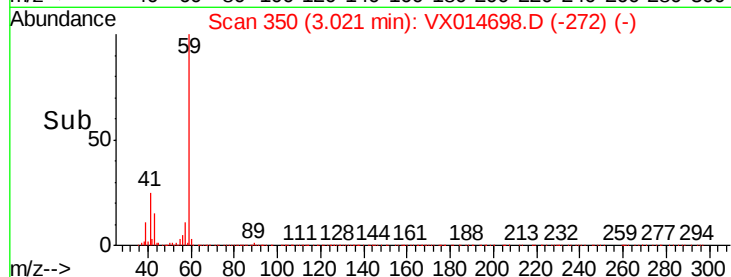
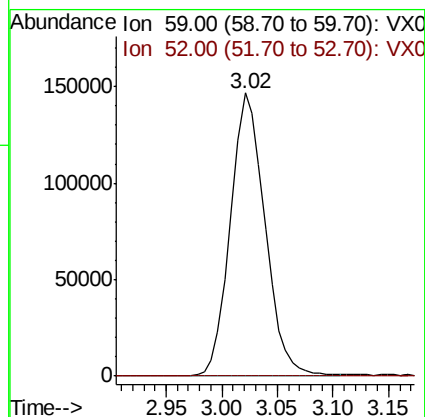
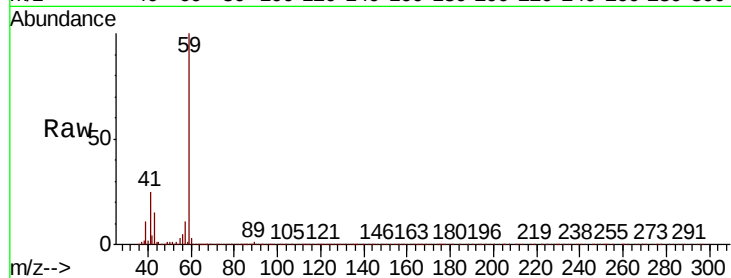
TANK-1

Tot Ion: 59 Resp: 316186

Ion Ratio Lower Upper

59 100

52 0.5 0.2 0.2#



#24

Methyl tert-Butyl Ether

Concen: 2.621 ug/l

RT: 3.18 min Scan# 376

Delta R.T. -0.01 min

Lab File: VX014698.D

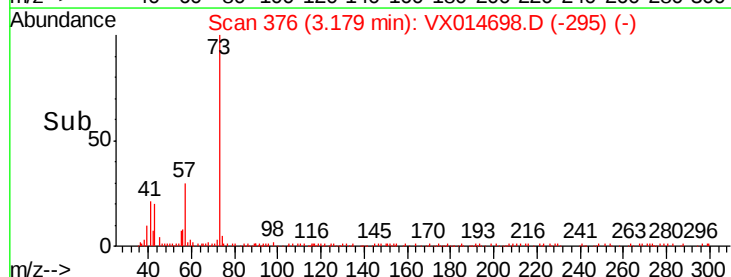
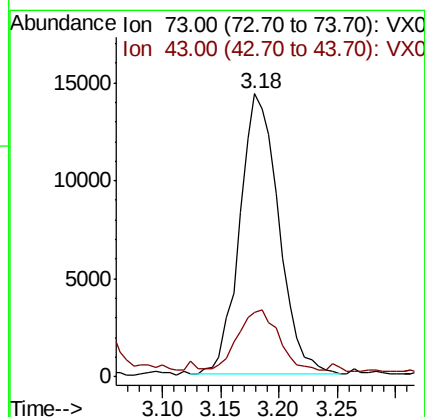
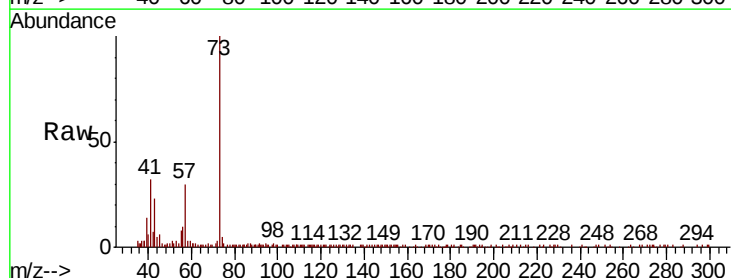
Acq: 24 Jan 2020 15:31

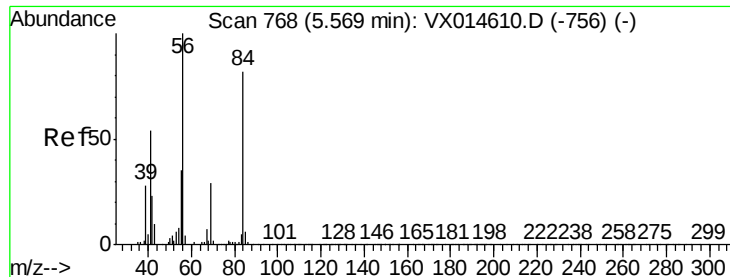
Tgt Ion: 73 Resp: 33671

Ion Ratio Lower Upper

73 100

43 23.7 16.6 25.0

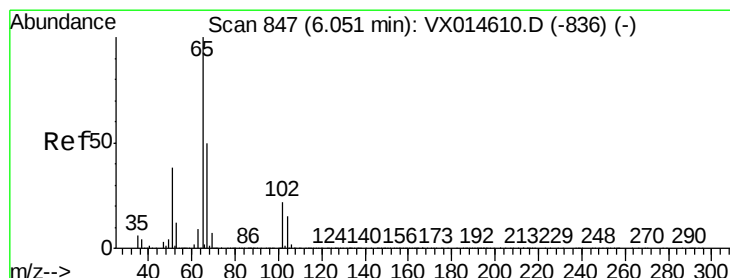
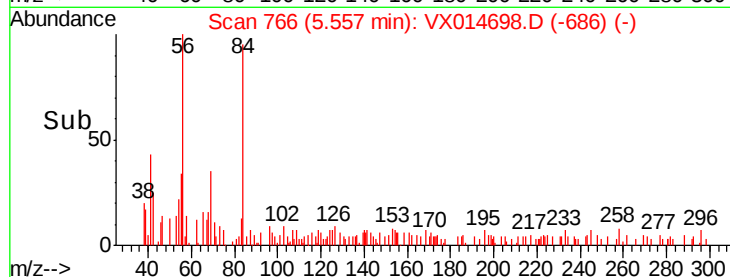
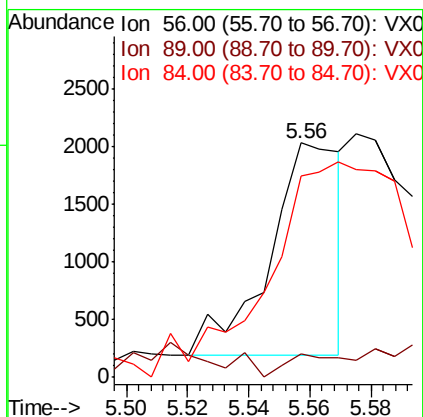
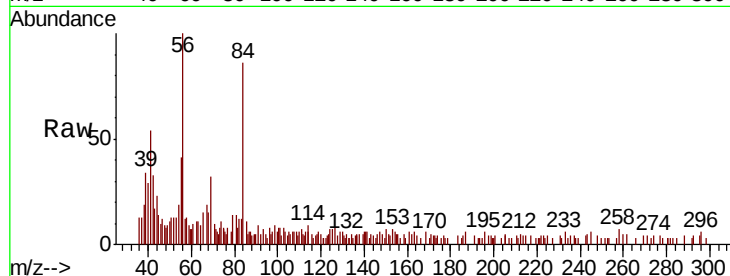




#26
Cyclohexane
Concen: 0.426 ug/l
RT: 5.56 min Scan# 766
Delta R.T. -0.01 min
Lab File: VX014698.D
Acq: 24 Jan 2020 15:31

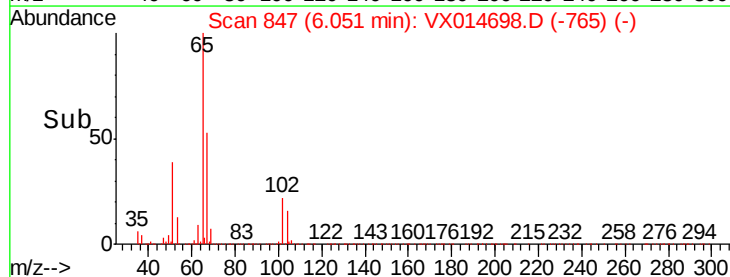
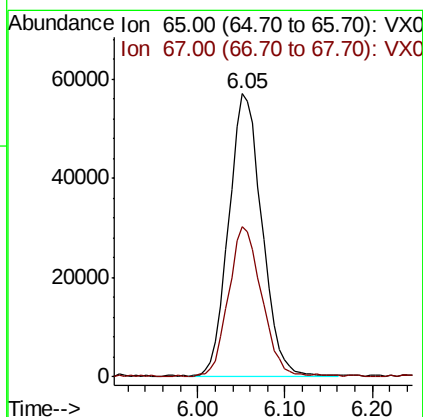
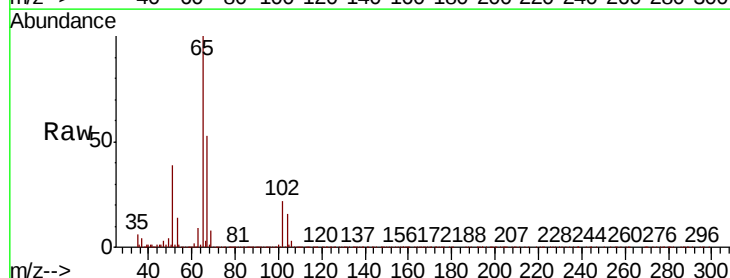
Instrument :
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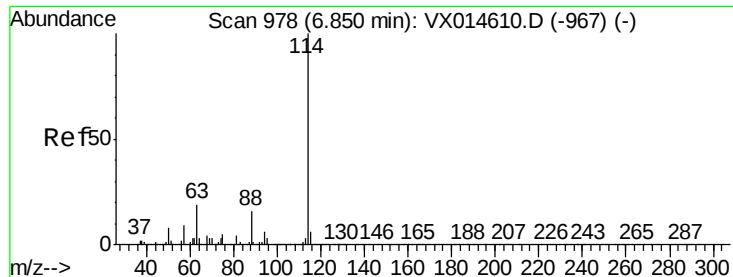
Tot Ion: 56 Resp: 3020
Ion Ratio Lower Upper
56 100
89 9.6 0.1 0.1#
84 133.3 70.8 106.2#



#27
1,2-Dichloroethane-d4
Concen: 30.588 ug/l
RT: 6.05 min Scan# 847
Delta R.T. 0.00 min
Lab File: VX014698.D
Acq: 24 Jan 2020 15:31

Tgt Ion: 65 Resp: 149913
Ion Ratio Lower Upper
65 100
67 52.7 43.1 64.7

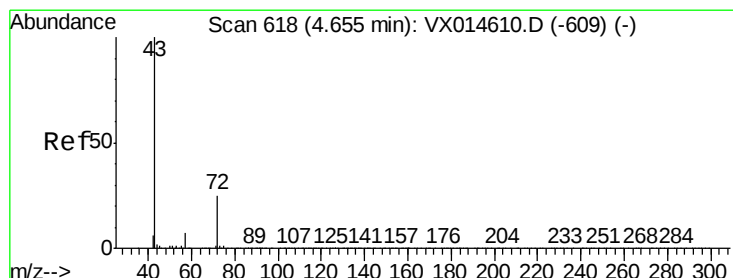
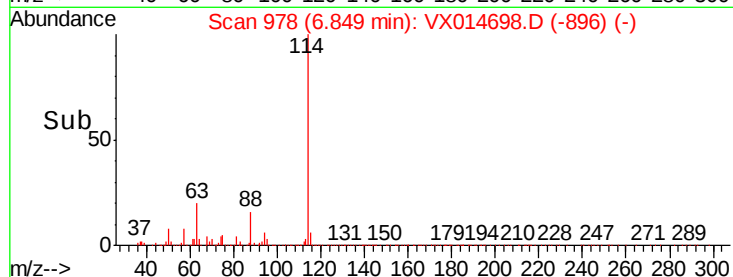
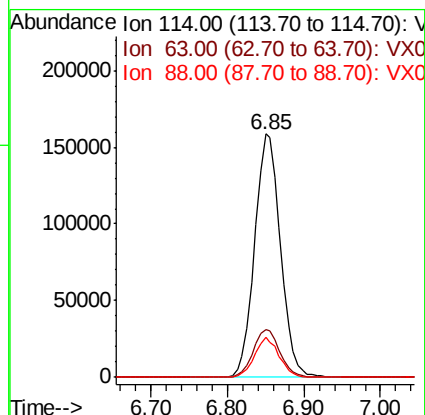
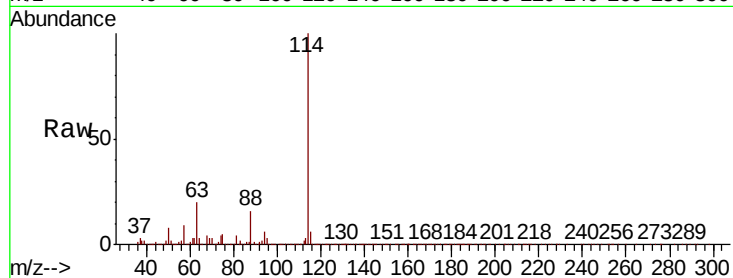




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX014698.D
 Acq: 24 Jan 2020 15:31

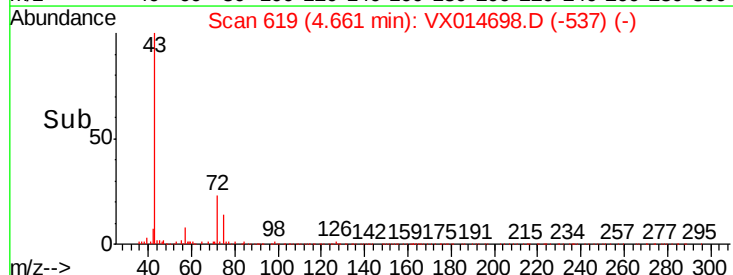
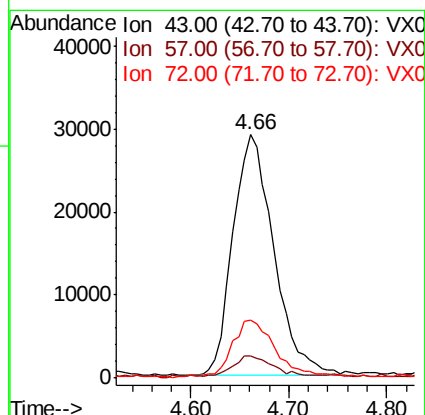
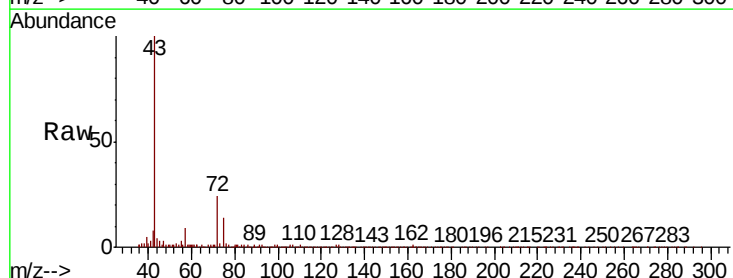
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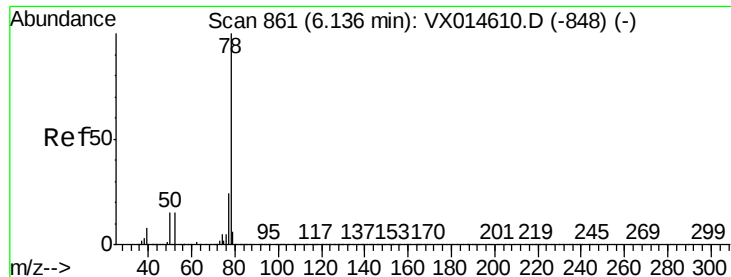
Tot Ion	Ratio	Lower	Upper
114	100		
63	20.4	16.1	24.1
88	15.4	12.5	18.7



#30
 2-Butanone
 Concen: 24.358 ug/l
 RT: 4.66 min Scan# 619
 Delta R.T. 0.00 min
 Lab File: VX014698.D
 Acq: 24 Jan 2020 15:31

Tgt Ion	Ratio	Lower	Upper
43	100		
57	7.6	6.2	9.2
72	24.3	20.3	30.5





#34

Benzene

Concen: 4.108 ug/l

RT: 6.14 min Scan# 861

Delta R.T. 0.01 min

Lab File: VX014698.D

Acq: 24 Jan 2020 15:31

Instrument :

MSVOA_X

ClientSampleId :

TANK-1

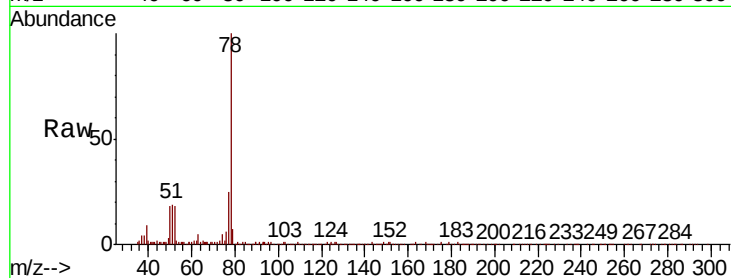
Tot Ion: 78 Resp: 69645

Ion Ratio Lower Upper

78 100

77 24.5 18.2 27.2

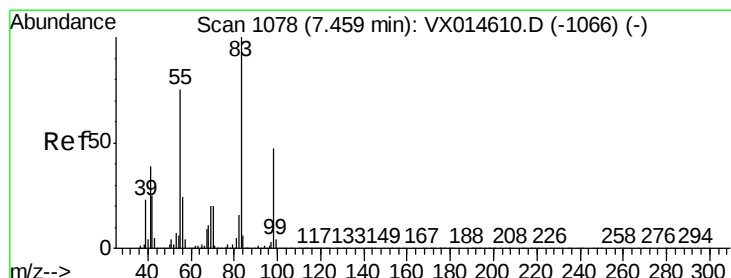
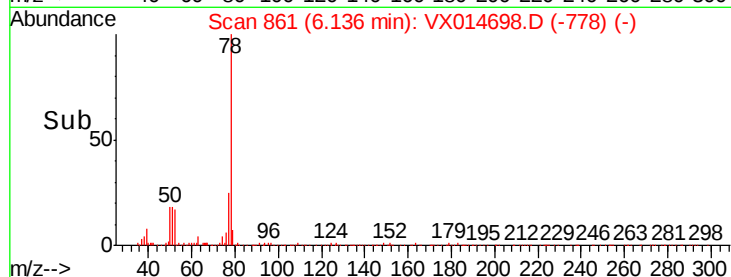
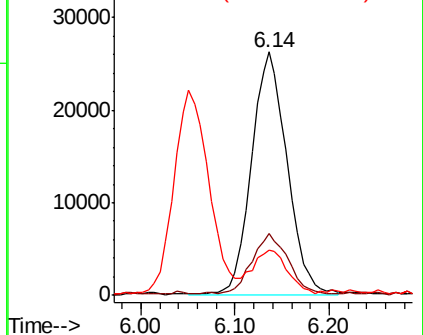
51 17.3 12.4 18.6



Abundance Ion 78.10 (77.80 to 78.80): VX0

Ion 77.00 (76.70 to 77.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#38

Methylcyclohexane

Concen: 0.651 ug/l

RT: 7.45 min Scan# 1077

Delta R.T. -0.01 min

Lab File: VX014698.D

Acq: 24 Jan 2020 15:31

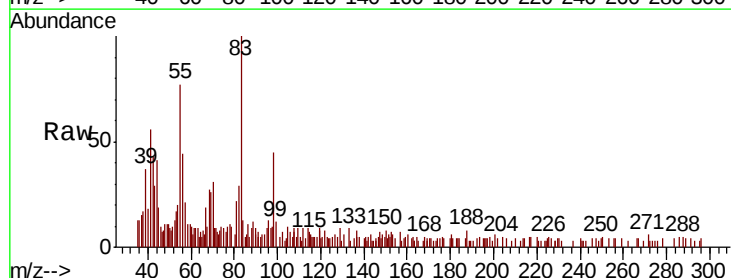
Tgt Ion: 83 Resp: 4448

Ion Ratio Lower Upper

83 100

55 91.1 39.4 118.1

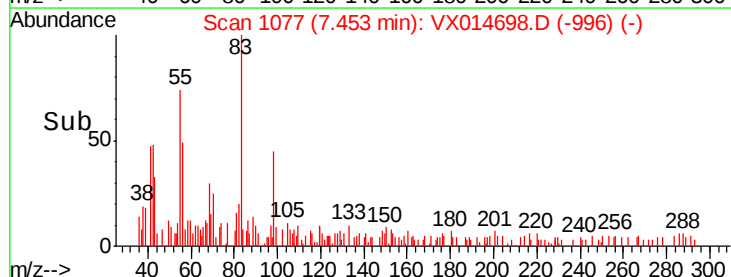
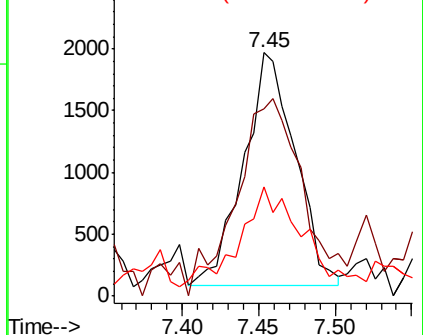
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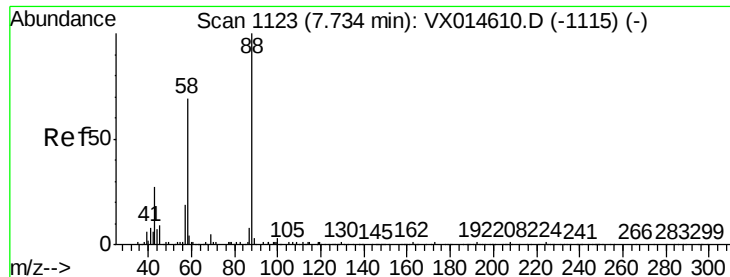


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#45

1,4-Dioxane

Concen: 2.147 ug/l

RT: 7.83 min Scan# 1139

Delta R.T. 0.10 min

Lab File: VX014698.D

Acq: 24 Jan 2020 15:31

Instrument :

MSVOA_X

ClientSampled :

TANK-1

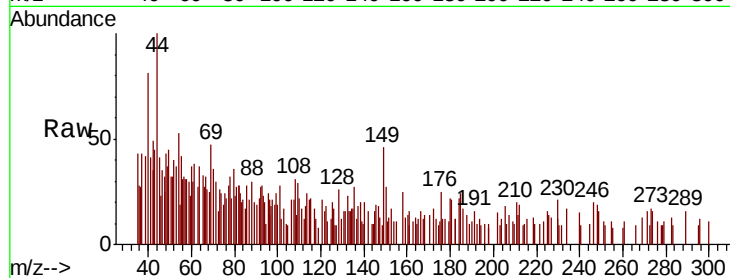
Tot Ion: 88 Resp: 218

Ion Ratio Lower Upper

88 100

43 35.3 25.4 38.2

58 57.8 56.5 84.7



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

600

500

400

300

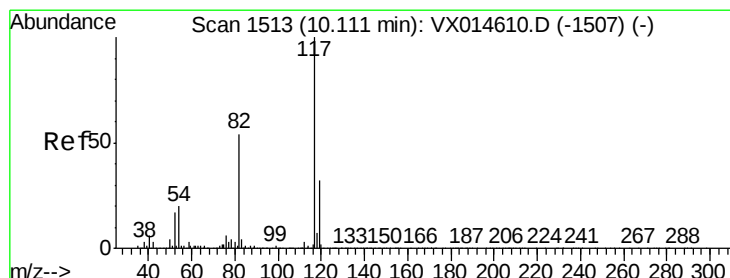
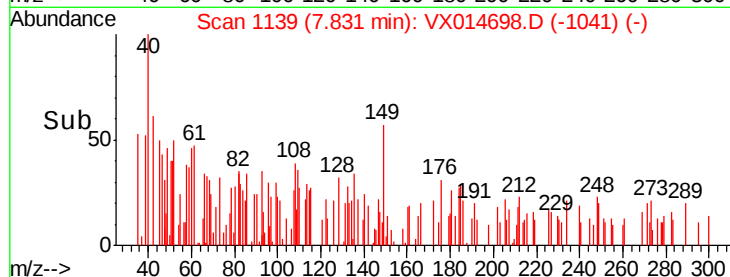
200

100

0

7.82 7.84 7.86

Time-->



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VX014698.D

Acq: 24 Jan 2020 15:31

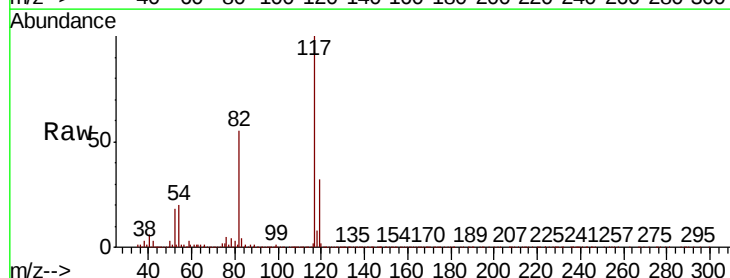
Tgt Ion: 117 Resp: 342075

Ion Ratio Lower Upper

117 100

82 54.3 43.8 65.6

119 31.3 25.8 38.6



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 119.00 (118.70 to 119.70): V

300000

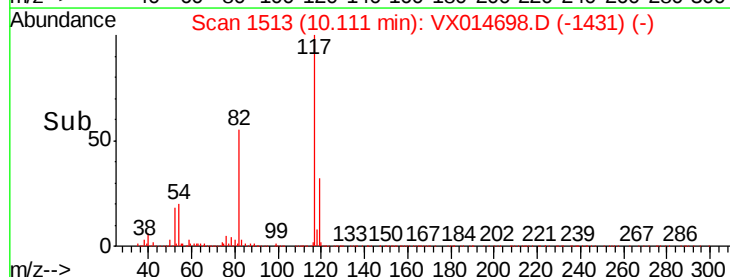
200000

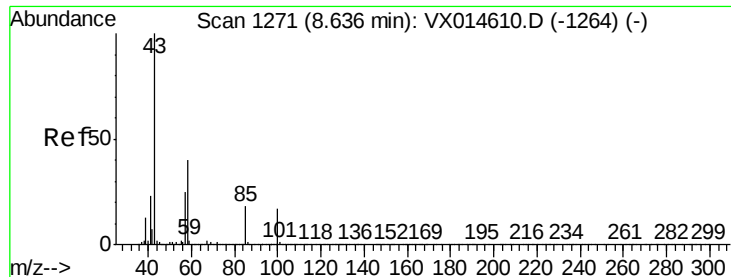
100000

0

10.05 10.10 10.15 10.20

Time-->

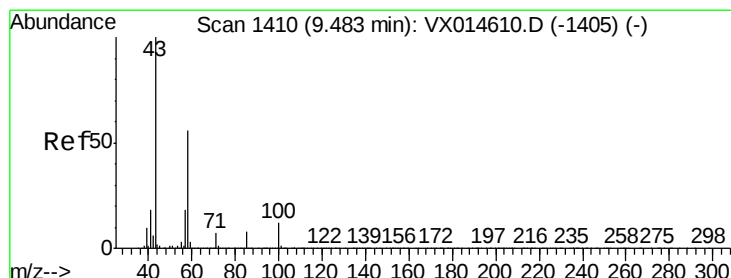
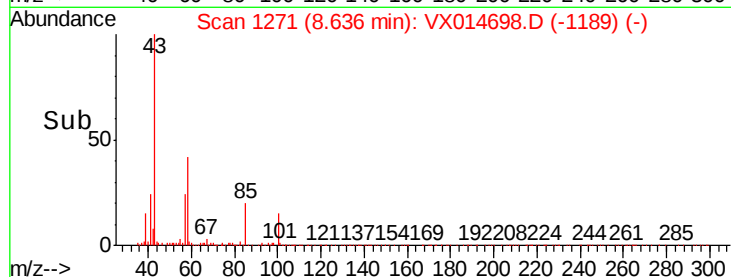
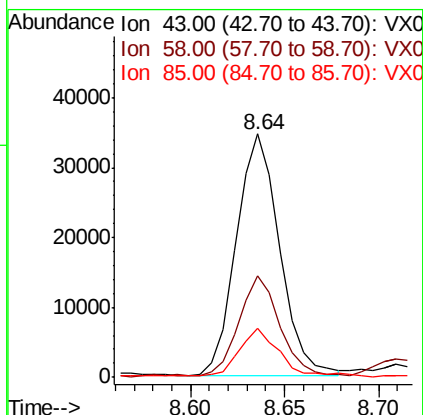
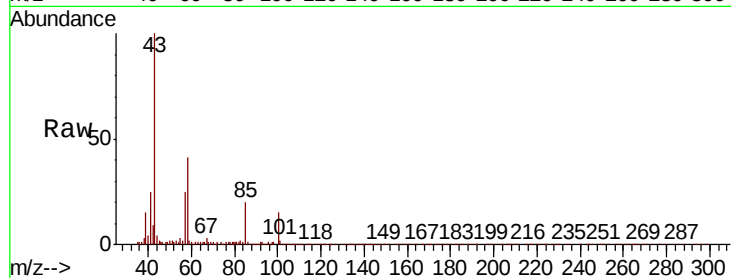




#58
4-Methyl-2-Pentanone
Concen: 8.528 ug/l
RT: 8.64 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VX014698.D
Acq: 24 Jan 2020 15:31

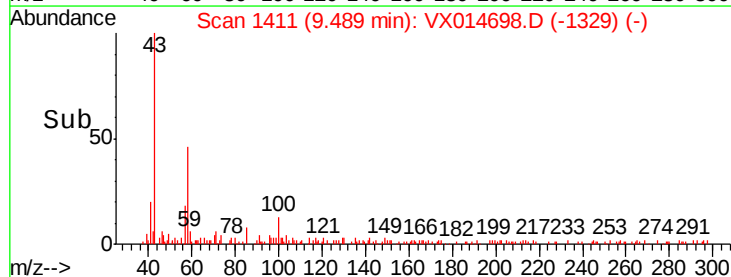
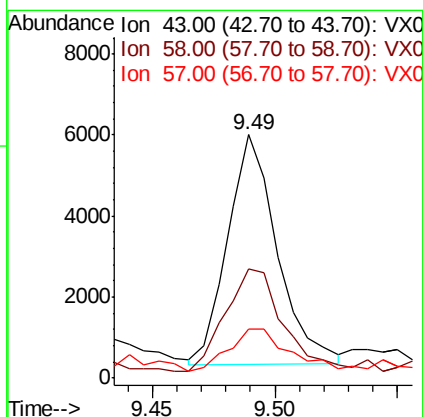
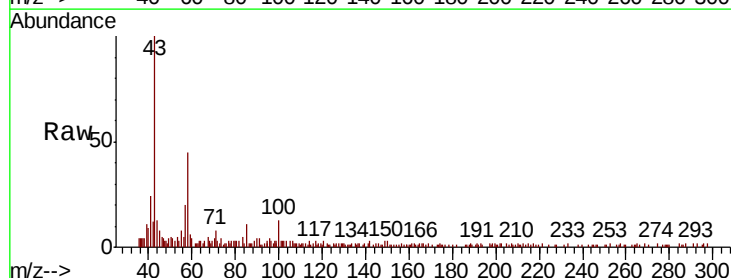
Instrument :
MSVOA_X
ClientSampleId :
TANK-1

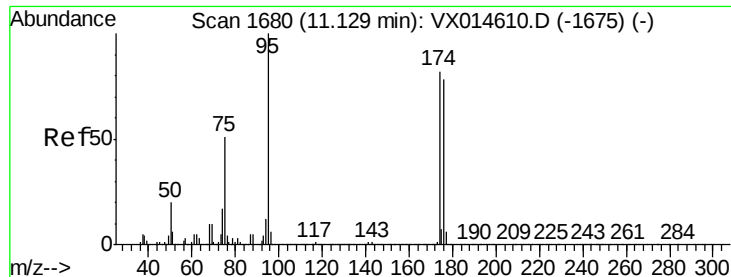
Tot Ion:	43	Resp:	54937
Ion	Ratio	Lower	Upper
43	100		
58	39.2	31.2	46.8
85	17.8	14.2	21.2



#59
2-Hexanone
Concen: 1.612 ug/l
RT: 9.49 min Scan# 1411
Delta R.T. 0.00 min
Lab File: VX014698.D
Acq: 24 Jan 2020 15:31

Tgt Ion:	43	Resp:	8030
Ion	Ratio	Lower	Upper
43	100		
58	56.8	43.8	65.6
57	21.2	15.4	23.0

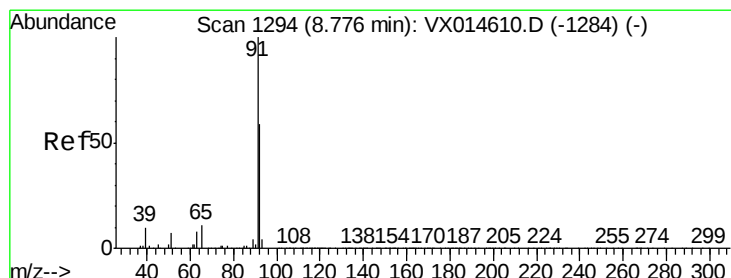
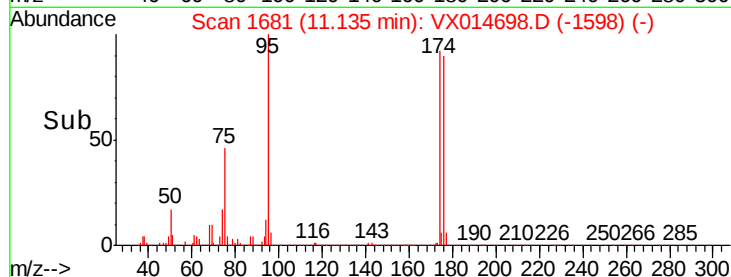
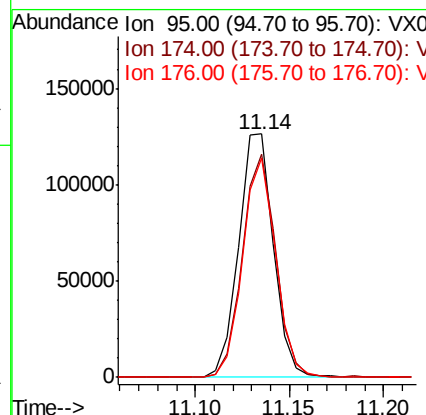
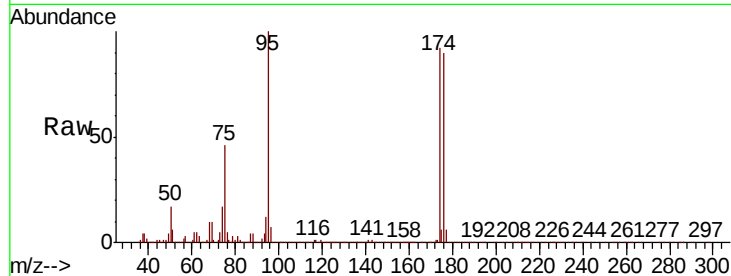




#60
4-Bromofluorobenzene
Concen: 29.538 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. 0.01 min
Lab File: VX014698.D
Acq: 24 Jan 2020 15:31

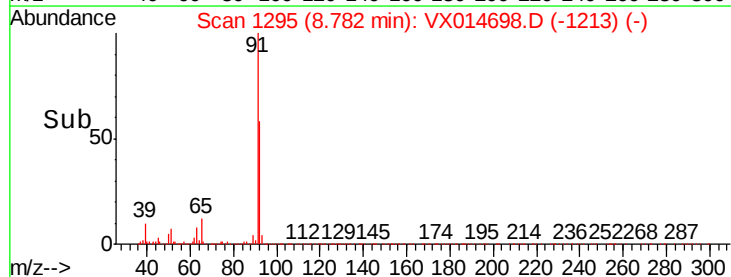
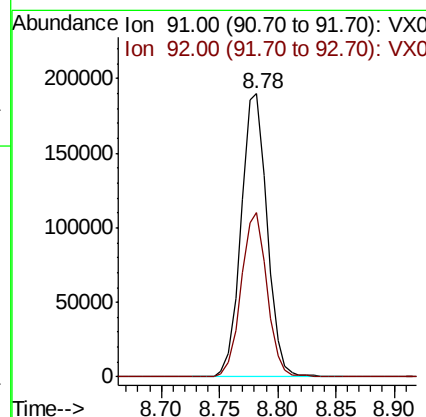
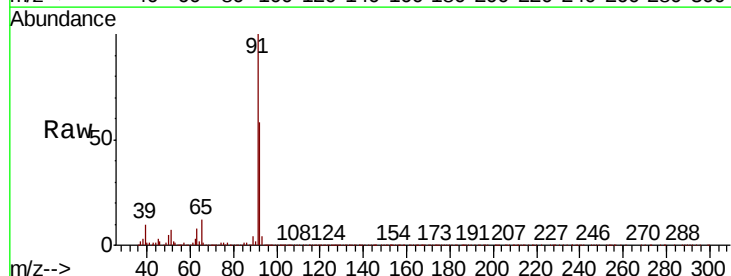
Instrument :
MSVOA_X
ClientSampleId :
TANK-1

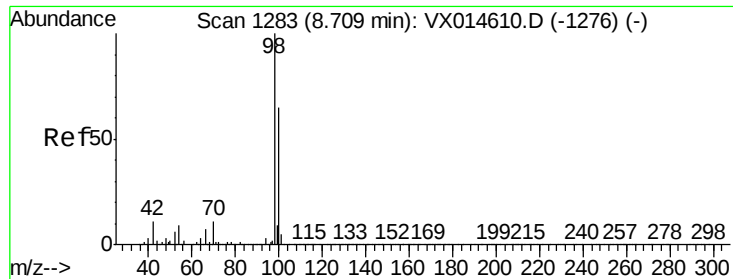
Tot Ion: 95 Resp: 161690
Ion Ratio Lower Upper
95 100
174 88.0 70.2 105.2
176 86.0 68.3 102.5



#62
Toluene
Concen: 16.326 ug/l
RT: 8.78 min Scan# 1295
Delta R.T. -0.00 min
Lab File: VX014698.D
Acq: 24 Jan 2020 15:31

Tgt Ion: 91 Resp: 296299
Ion Ratio Lower Upper
91 100
92 57.4 46.4 69.6





#63

Toluene-d8

Concen: 29.639 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014698.D

Acq: 24 Jan 2020 15:31

Instrument :

MSVOA_X

ClientSampleId :

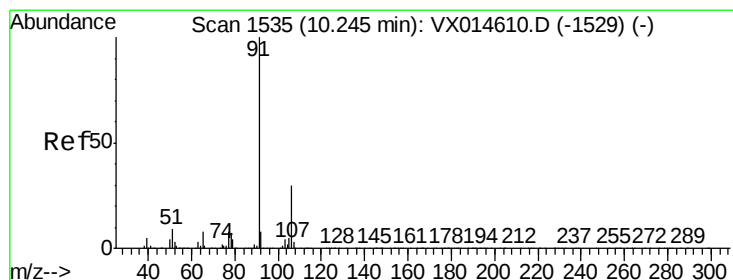
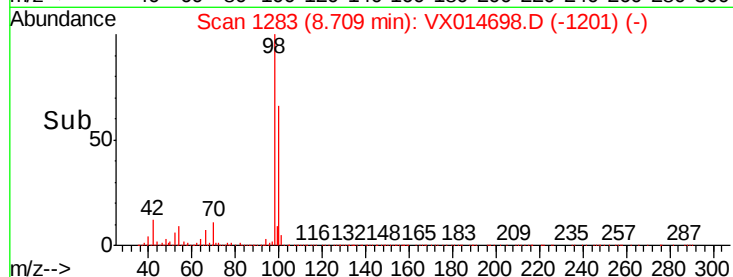
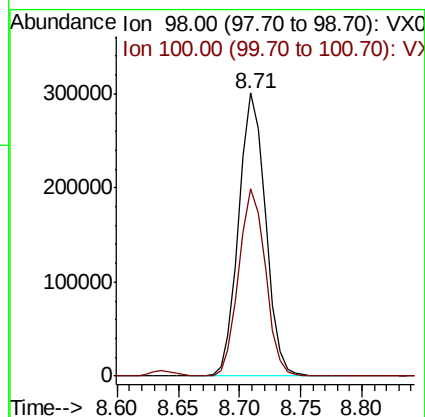
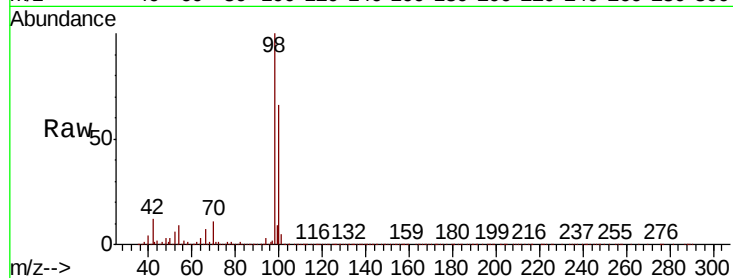
TANK-1

Tot Ion: 98 Resp: 457967

Ion Ratio Lower Upper

98 100

100 65.4 52.2 78.2



#66

Ethyl Benzene

Concen: 3.358 ug/l

RT: 10.25 min Scan# 1535

Delta R.T. 0.00 min

Lab File: VX014698.D

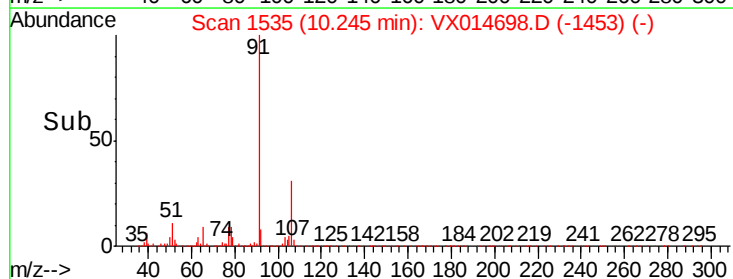
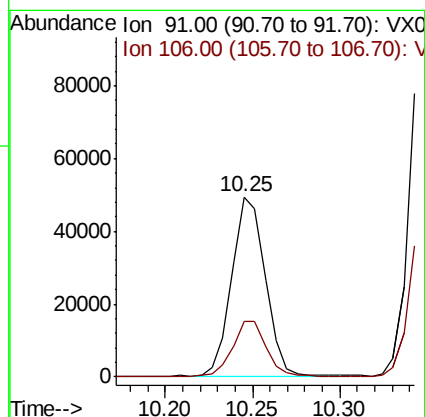
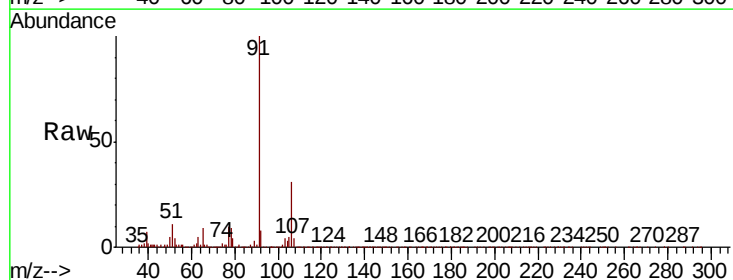
Acq: 24 Jan 2020 15:31

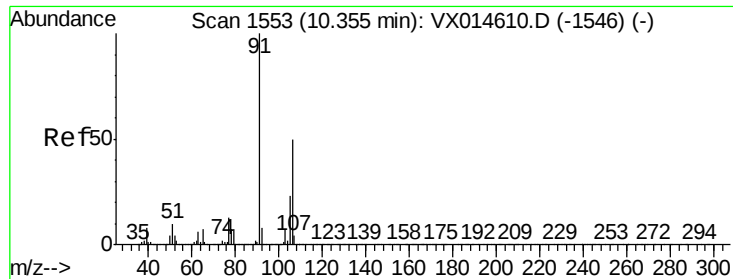
Tgt Ion: 91 Resp: 66375

Ion Ratio Lower Upper

91 100

106 31.0 24.2 36.2

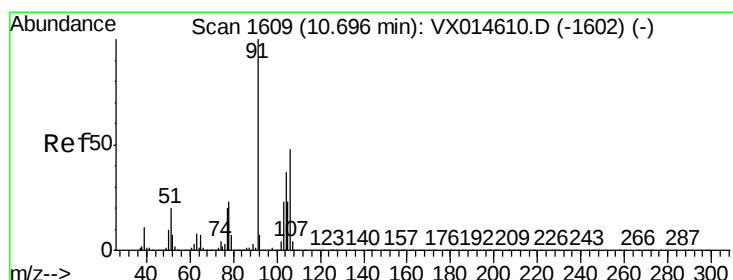
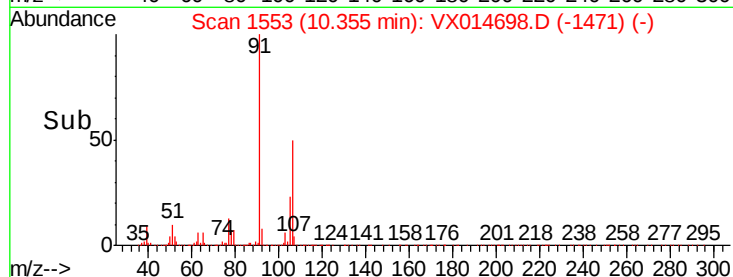
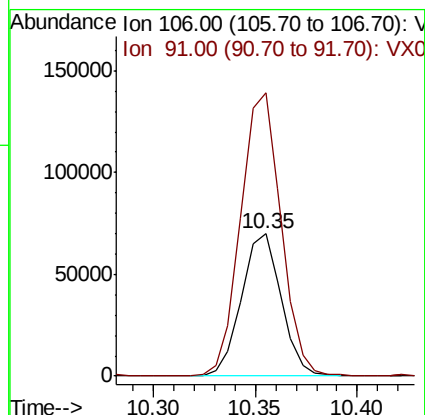
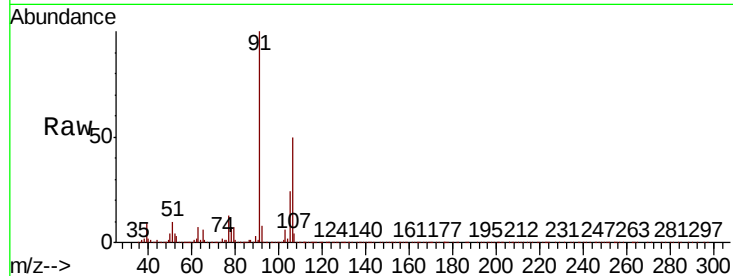




#67
m/p-Xylenes
Concen: 12.453 ug/l
RT: 10.35 min Scan# 1553
Delta R.T. 0.00 min
Lab File: VX014698.D
Acq: 24 Jan 2020 15:31

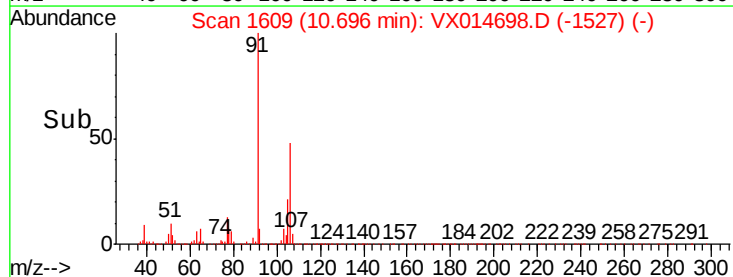
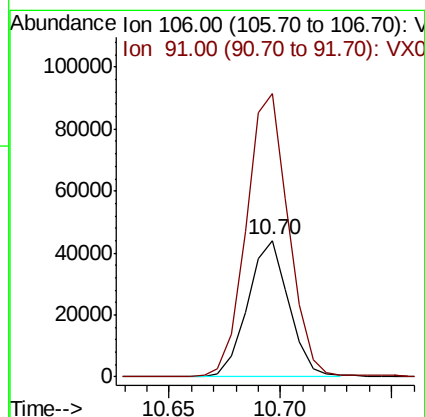
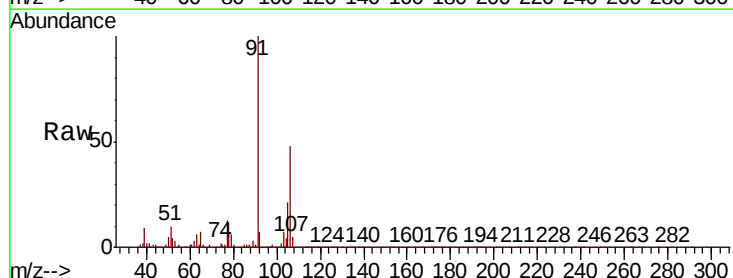
Instrument :
MSVOA_X
ClientSampleId :
TANK-1

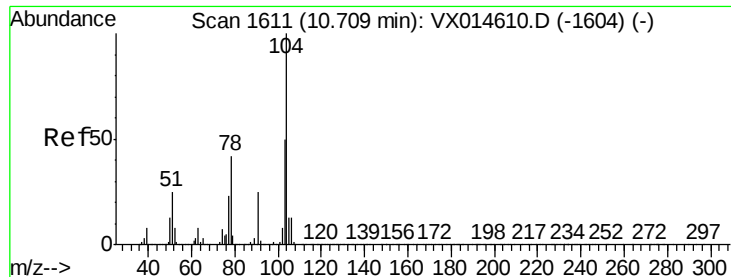
Tot Ion:106 Resp: 94296
Ion Ratio Lower Upper
106 100
91 202.0 159.3 238.9



#68
o-Xylene
Concen: 7.569 ug/l
RT: 10.70 min Scan# 1609
Delta R.T. 0.00 min
Lab File: VX014698.D
Acq: 24 Jan 2020 15:31

Tgt Ion:106 Resp: 55811
Ion Ratio Lower Upper
106 100
91 215.9 104.8 314.6

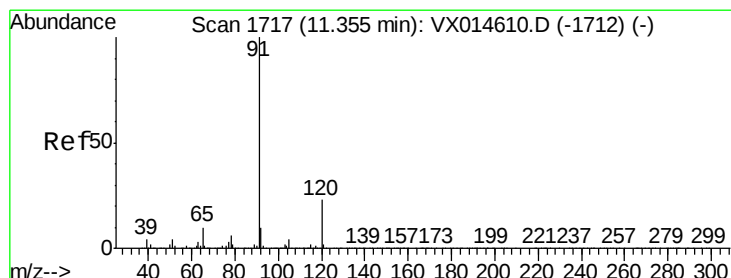
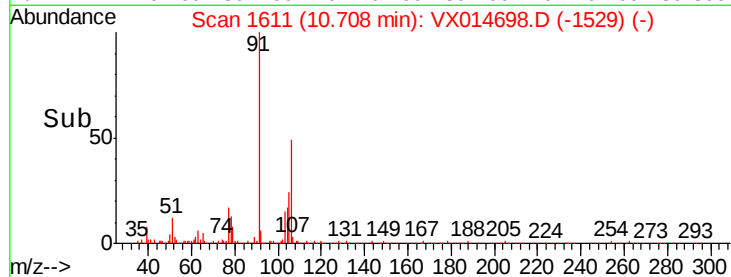
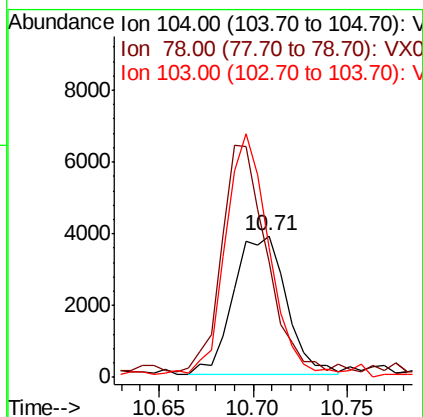
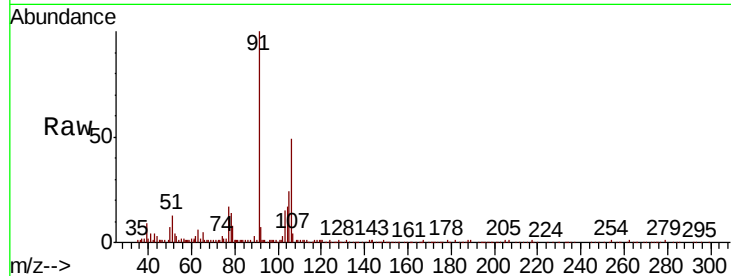




#69
Stvrene
Concen: 0.610 ug/l
RT: 10.71 min Scan# 1611
Delta R.T. -0.00 min
Lab File: VX014698.D
Acq: 24 Jan 2020 15:31

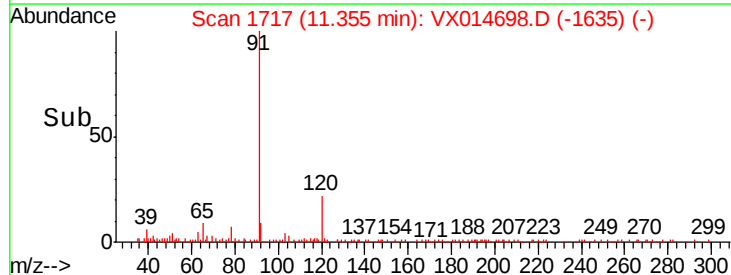
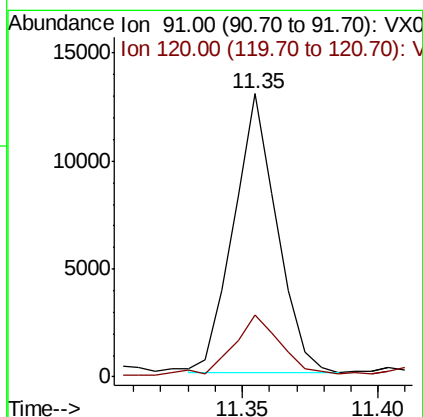
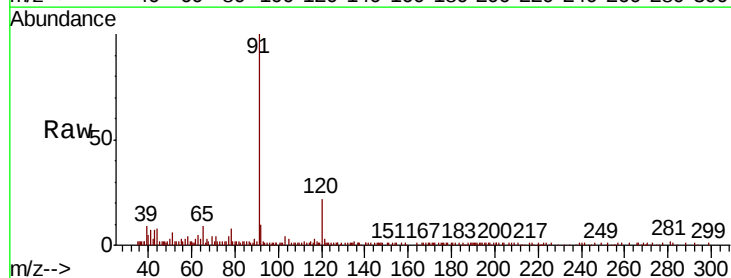
Instrument :
MSVOA_X
ClientSampleId :
TANK-1

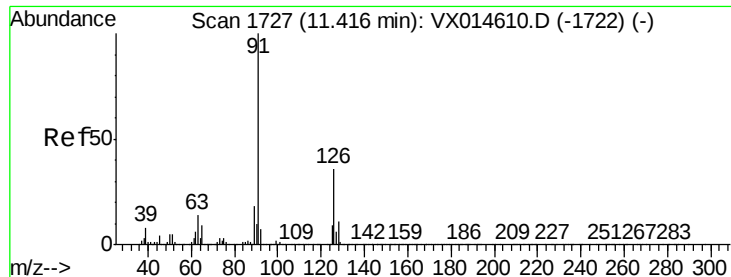
Tot Ion:104 Resp: 7618
Ion Ratio Lower Upper
104 100
78 137.3 38.9 58.3#
103 136.2 44.2 66.2#



#74
n-propylbenzene
Concen: 0.646 ug/l
RT: 11.35 min Scan# 1717
Delta R.T. 0.00 min
Lab File: VX014698.D
Acq: 24 Jan 2020 15:31

Tgt Ion: 91 Resp: 14251
Ion Ratio Lower Upper
91 100
120 21.5 0.0 44.8





#75

2-Chlorotoluene

Concen: 0.636 ug/l

RT: 11.43 min Scan# 1729

Delta R.T. 0.01 min

Lab File: VX014698.D

Acq: 24 Jan 2020 15:31

Instrument :

MSVOA_X

ClientSampleId :

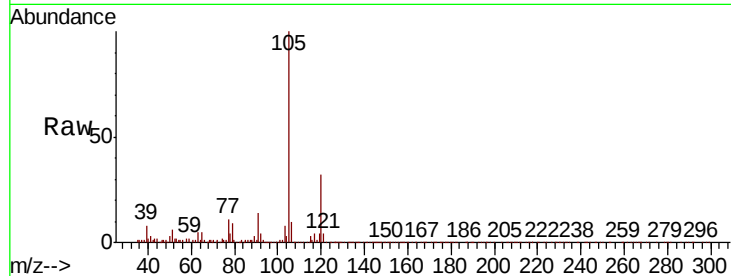
TANK-1

Tot Ion: 91 Resp: 8419

Ion Ratio Lower Upper

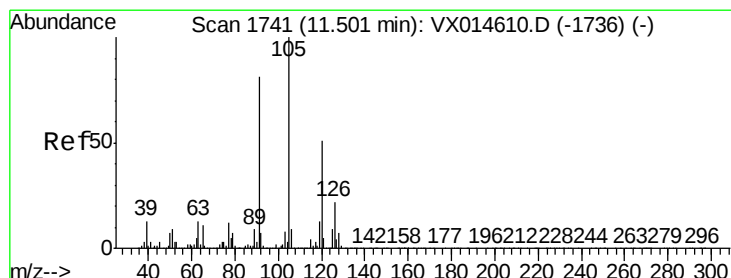
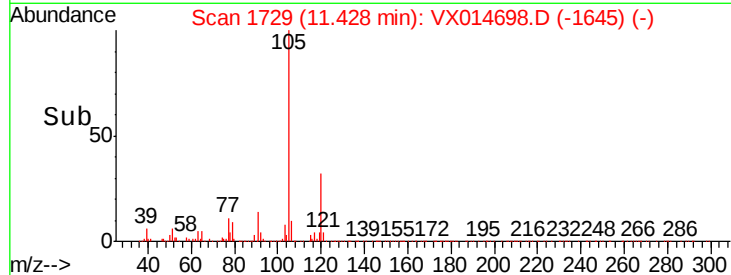
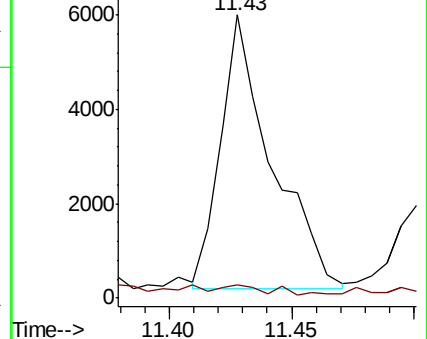
91 100

126 2.0 0.0 70.8



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 126.00 (125.70 to 126.70): V



#76

1,3,5-Trimethylbenzene

Concen: 1.495 ug/l

RT: 11.50 min Scan# 1741

Delta R.T. 0.00 min

Lab File: VX014698.D

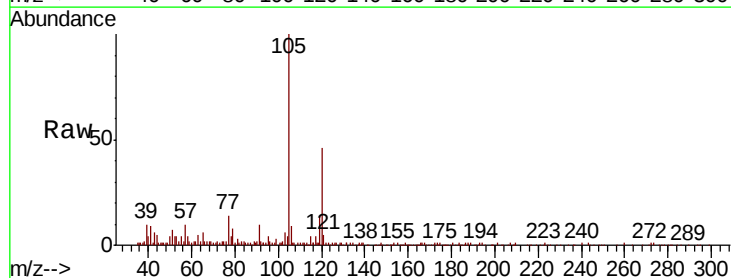
Acq: 24 Jan 2020 15:31

Tgt Ion: 105 Resp: 24070

Ion Ratio Lower Upper

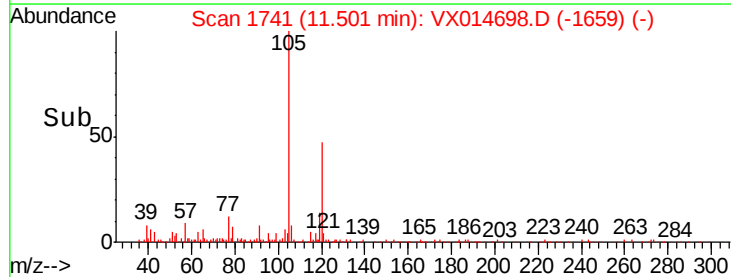
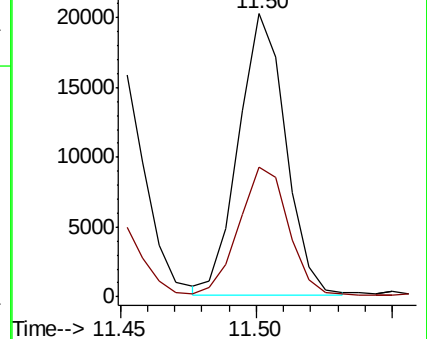
105 100

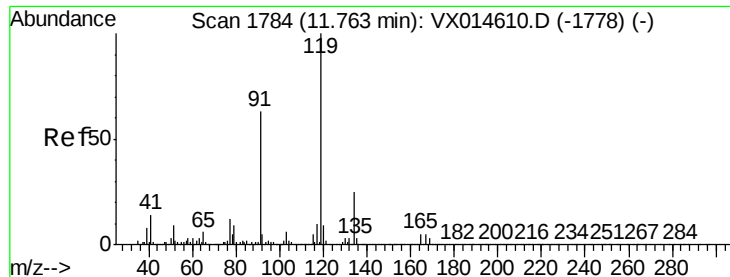
120 49.9 0.0 100.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#79

tert-butylbenzene

Concen: 0.794 ug/l

RT: 11.80 min Scan# 1790

Delta R.T. 0.04 min

Lab File: VX014698.D

Acq: 24 Jan 2020 15:31

Instrument :

MSVOA_X

ClientSampled :

TANK-1

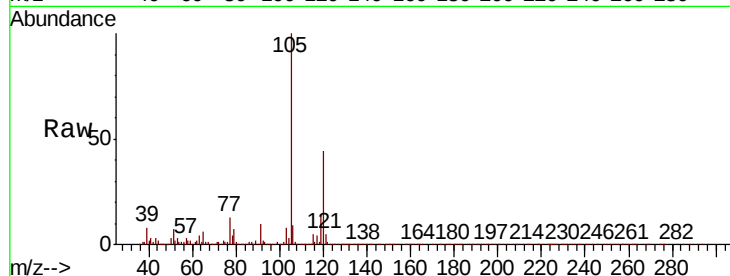
Tot Ion:119 Resp: 11955

Ion Ratio Lower Upper

119 100

91 88.1 0.0 112.6

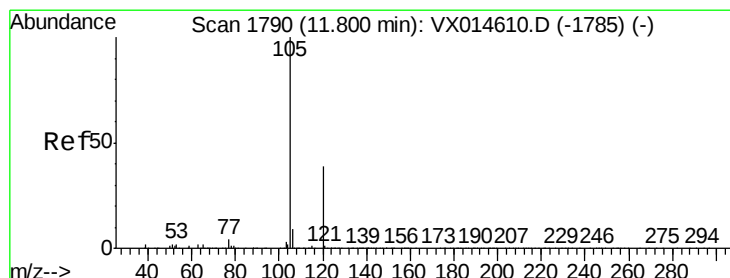
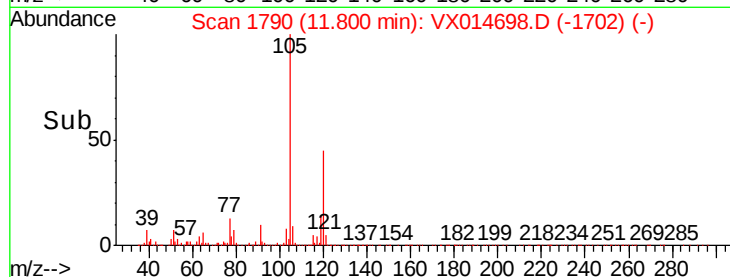
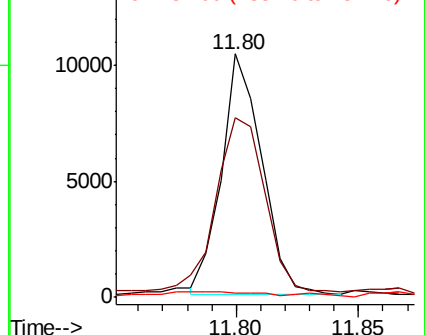
134 1.4 0.0 49.8



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VX0

Ion 134.00 (133.70 to 134.70): V



#80

1,2,4-Trimethylbenzene

Concen: 5.833 ug/l

RT: 11.81 min Scan# 1791

Delta R.T. -0.00 min

Lab File: VX014698.D

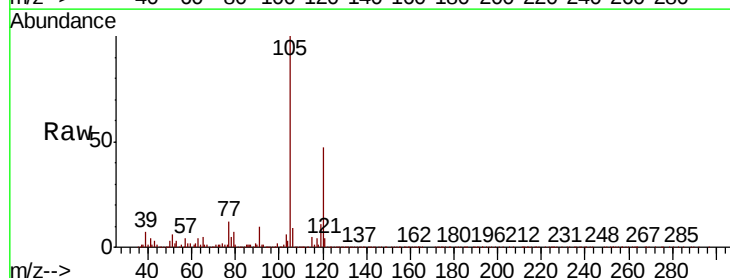
Acq: 24 Jan 2020 15:31

Tgt Ion:105 Resp: 93647

Ion Ratio Lower Upper

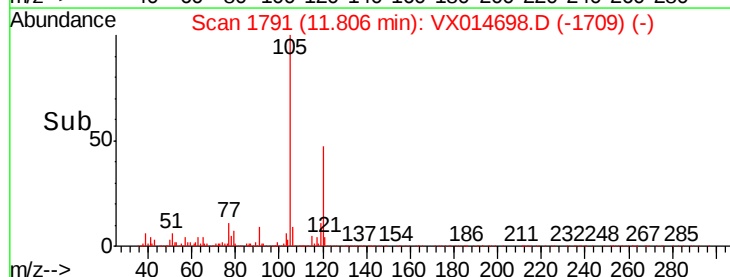
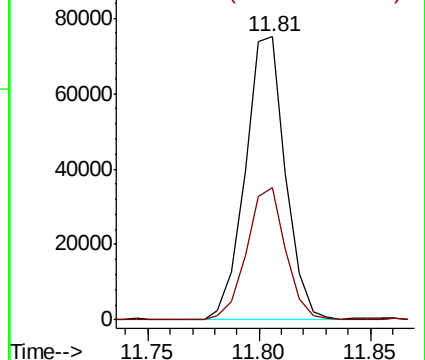
105 100

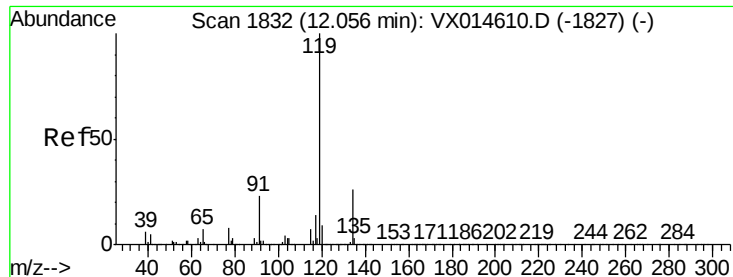
120 45.4 0.0 92.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

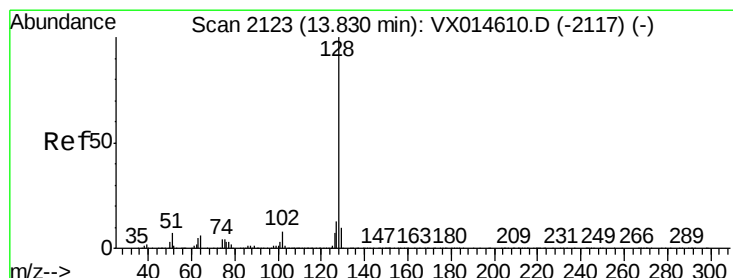
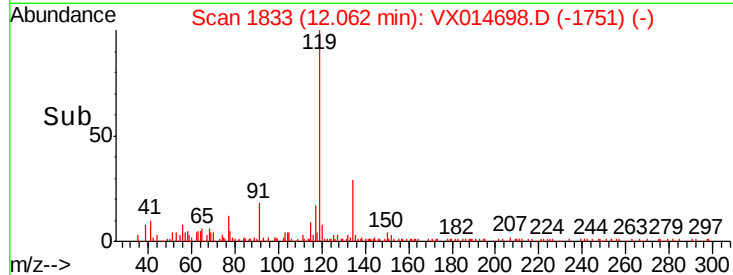
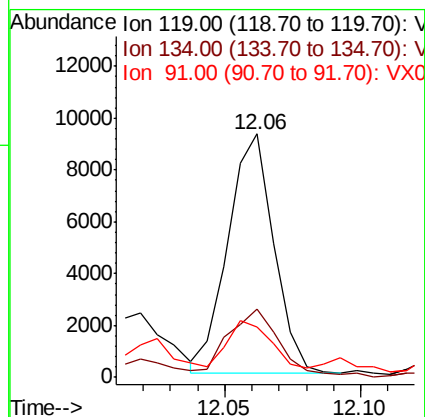
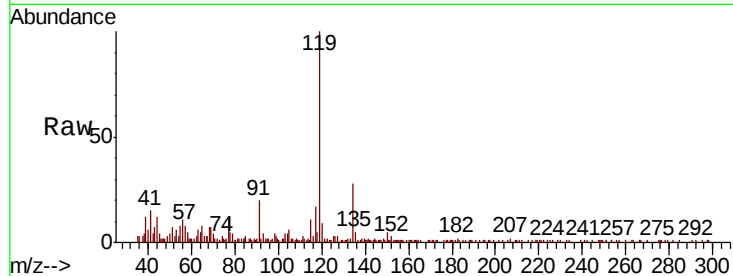




#82
p-Isopropyltoluene
Concen: 0.639 ug/l
RT: 12.06 min Scan# 1833
Delta R.T. -0.00 min
Lab File: VX014698.D
Acq: 24 Jan 2020 15:31

Instrument :
MSVOA_X
ClientSampleId :
TANK-1

Tot Ion:119 Resp: 10871
Ion Ratio Lower Upper
119 100
134 29.9 0.0 53.8
91 17.7 0.0 45.0



#91
Naphthalene
Concen: 191.117 ug/l
RT: 13.83 min Scan# 2123
Delta R.T. 0.00 min
Lab File: VX014698.D
Acq: 24 Jan 2020 15:31

Tgt Ion:128 Resp: 3435238
Ion Ratio Lower Upper
128 100
127 13.0 10.4 15.6
129 11.0 8.9 13.3

