

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX020720\
 Data File : VX014872.D
 Acq On : 07 Feb 2020 15:37
 Operator : JC/SP
 Sample : L1410-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Feb 07 22:13:24 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	68388	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	373244	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	338704	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	147624	30.71	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.37%
60) 4-Bromofluorobenzene	11.13	95	160853	29.68	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.93%
63) Toluene-d8	8.71	98	450214	29.43	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.10%

Target Compounds

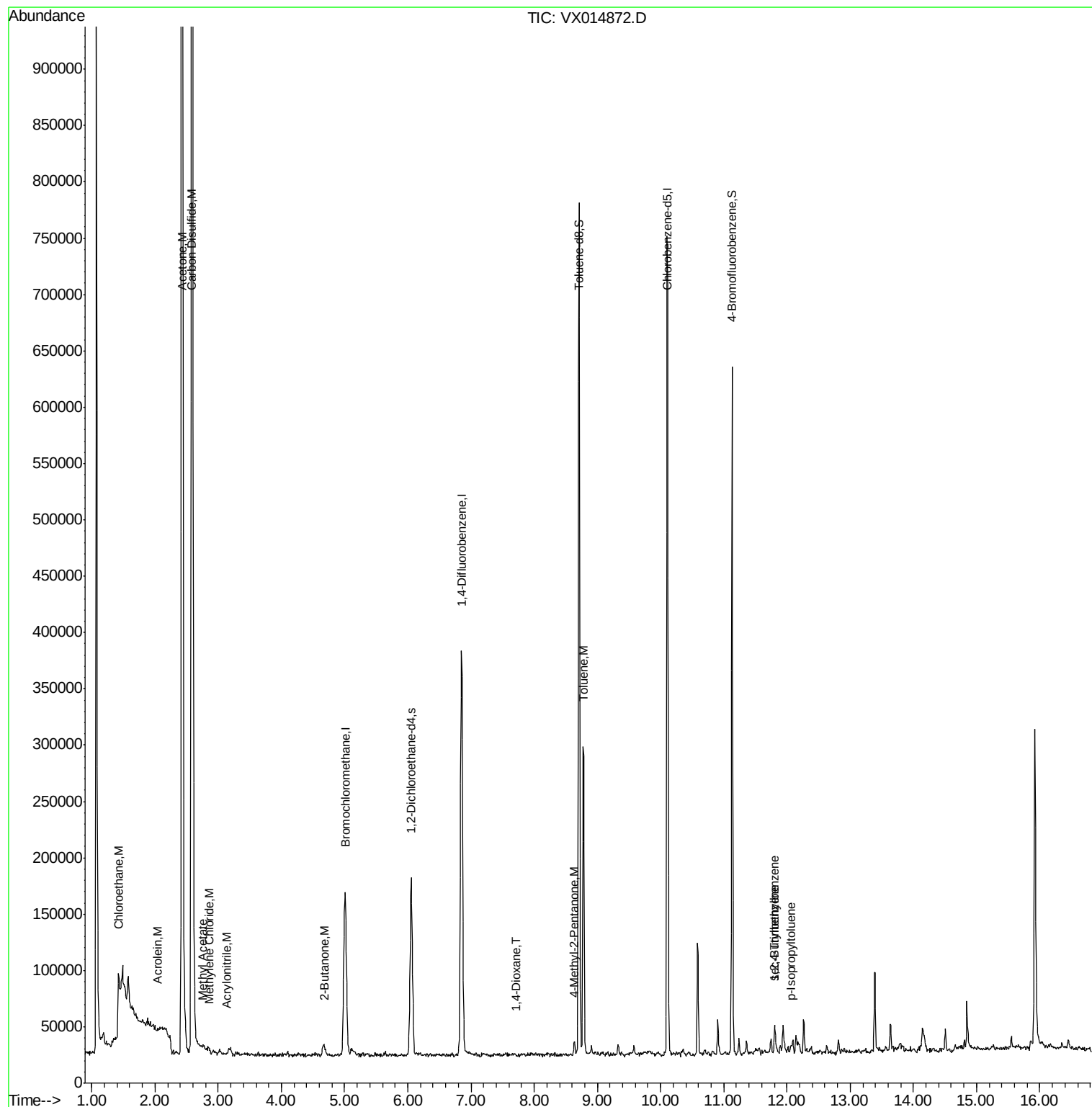
					Ovalue	
6) Chloroethane	1.42	64	76159	23.252	ug/l #	51
12) Methyl Acetate	2.76	43	2753	0.403	ug/l #	83
13) Acrolein	2.05	56	272	0.379	ug/l	94
14) Acrylonitrile	3.13	53	477	0.204	ug/l #	58
15) Acetone	2.43	58	721709	919.948	ug/l	86
16) Carbon Disulfide	2.58	76	8364	0.804	ug/l #	93
18) Methylene Chloride	2.86	84	1056	0.238	ug/l #	31
30) 2-Butanone	4.67	43	16959	4.891	ug/l #	96
45) 1,4-Dioxane	7.72	88	106	1.046	ug/l #	1
58) 4-Methyl-2-Pentanone	8.64	43	7817	1.226	ug/l #	90
62) Toluene	8.78	91	182350	10.147	ug/l	100
80) 1,2,4-Trimethylbenzene	11.81	105	7541	0.474	ug/l	44
81) sec-Butylbenzene	11.81	105	7541	0.409	ug/l	64
82) p-Isopropyltoluene	12.06	119	3611	0.214	ug/l	95

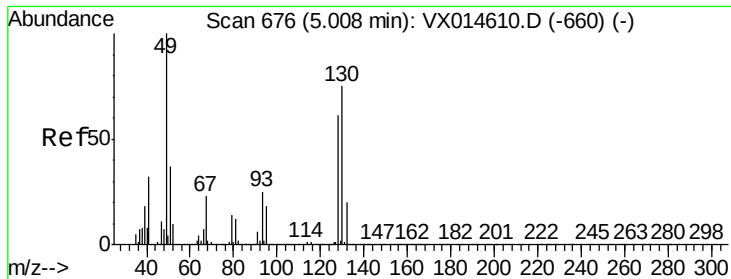
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 12 Sample Multiplier: 1

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MSVOA_X
ClientSampleId :

Quant Time: Feb 07 22:13:24 2020
Quant Method : Z:\V0ASRV\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



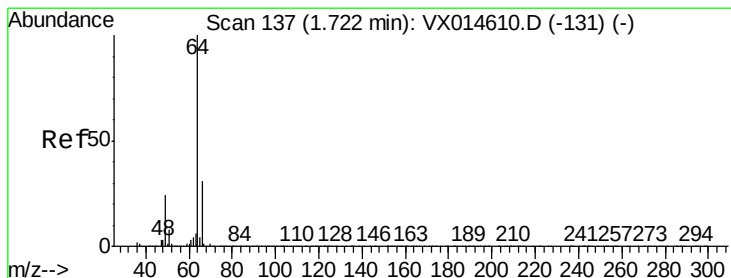
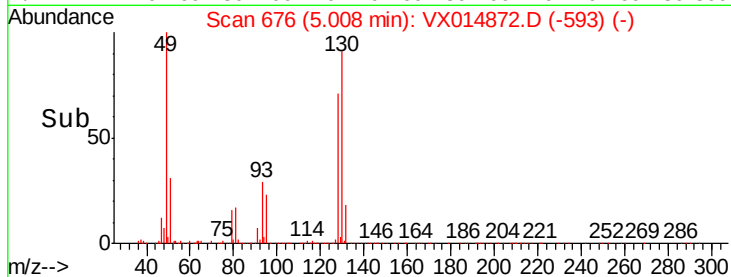
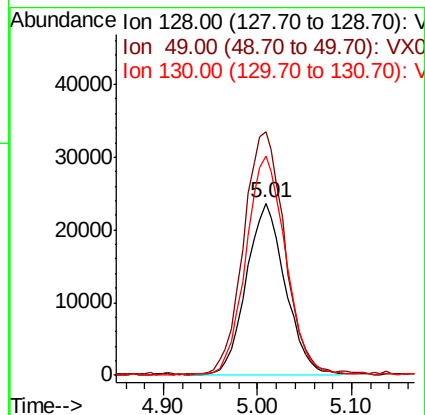
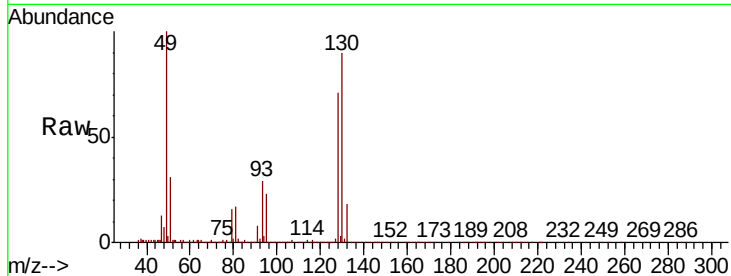


#1

Bromochloromethane
 Concen: 30.000 ug/l
 RT: 5.01 min Scan# 676
 Delta R.T. 0.01 min
 Lab File: VX014872.D
 Acq: 07 Feb 2020 15:37

Instrument :
 MSVOA_X
 ClientSampleId :

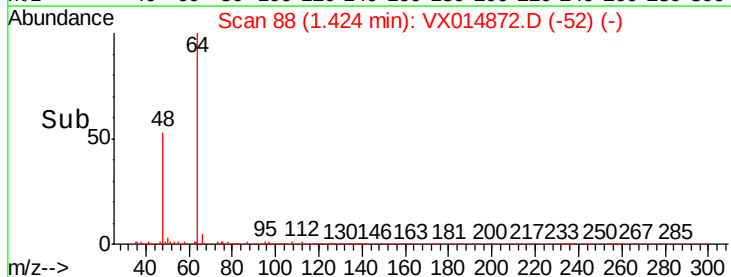
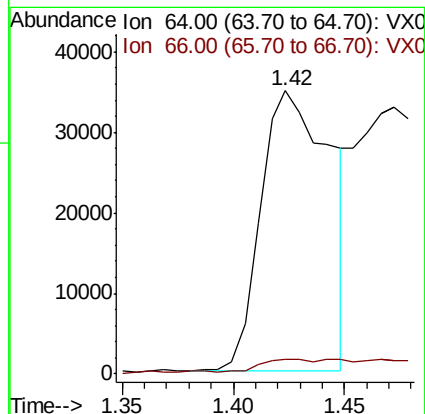
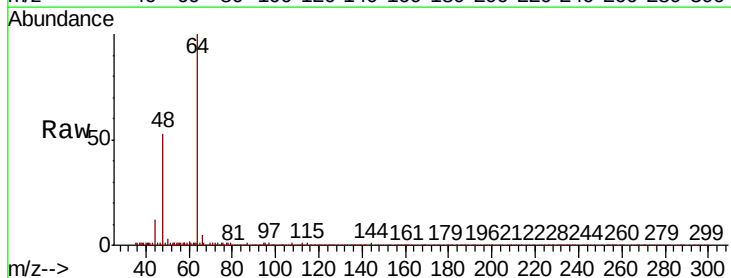
Tot Ion	Ratio	Lower	Upper
128	100		
49	147.7	0.0	405.0
130	131.1	0.0	321.5

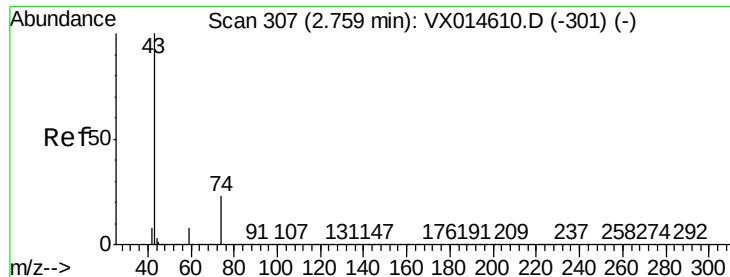


#6

Chloroethane
 Concen: 23.252 ug/l
 RT: 1.42 min Scan# 88
 Delta R.T. -0.28 min
 Lab File: VX014872.D
 Acq: 07 Feb 2020 15:37

Tgt Ion	Ratio	Lower	Upper
64	100		
66	4.2	25.2	37.8#





#12

Methvl Acetate

Concen: 0.403 ug/l

RT: 2.76 min Scan# 308

Delta R.T. 0.00 min

Lab File: VX014872.D

Acq: 07 Feb 2020 15:37

Instrument :

MSVOA_X

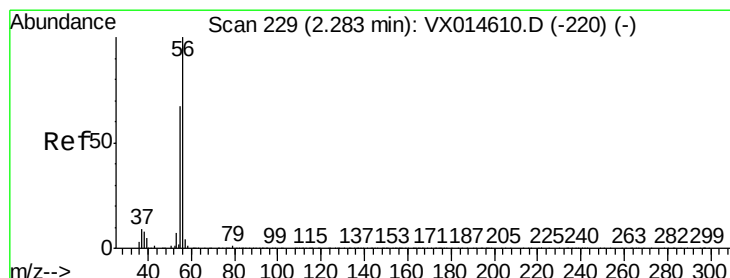
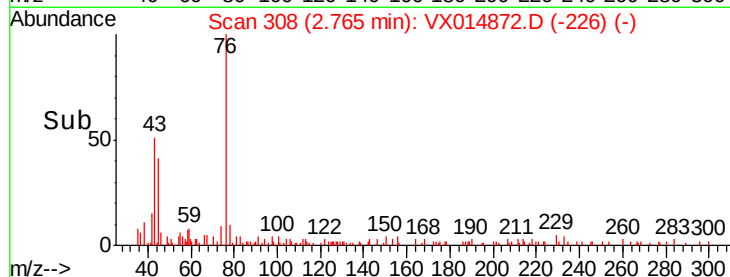
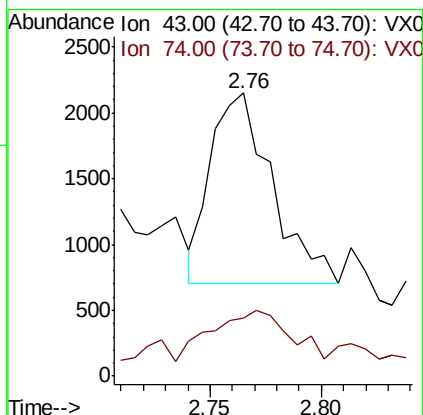
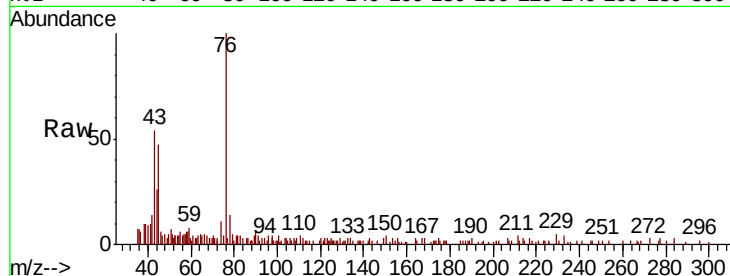
ClientSampled :

Tot Ion: 43 Resp: 2753

Ion Ratio Lower Upper

43 100

74 14.7 18.5 27.7#



#13

Acrolein

Concen: 0.379 ug/l

RT: 2.05 min Scan# 191

Delta R.T. -0.23 min

Lab File: VX014872.D

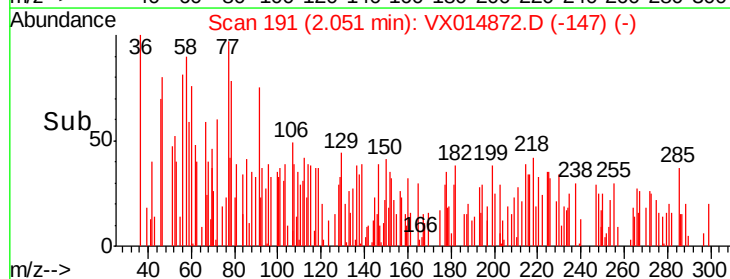
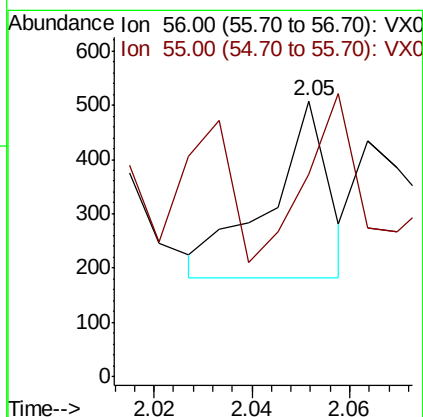
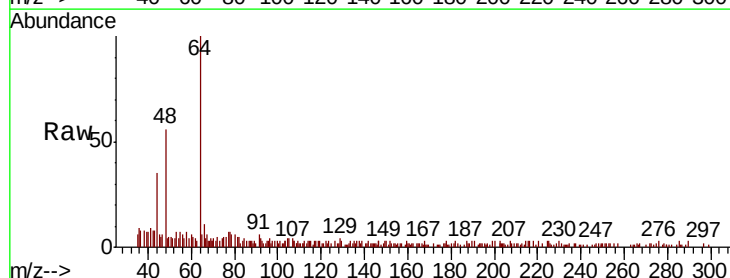
Acq: 07 Feb 2020 15:37

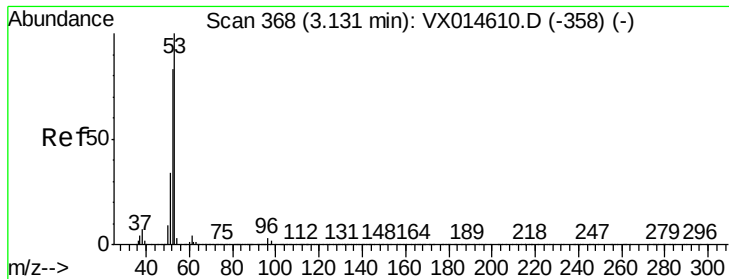
Tgt Ion: 56 Resp: 272

Ion Ratio Lower Upper

56 100

55 63.6 54.9 82.3





#14

Acrylonitrile

Concen: 0.204 ug/l

RT: 3.13 min Scan# 368

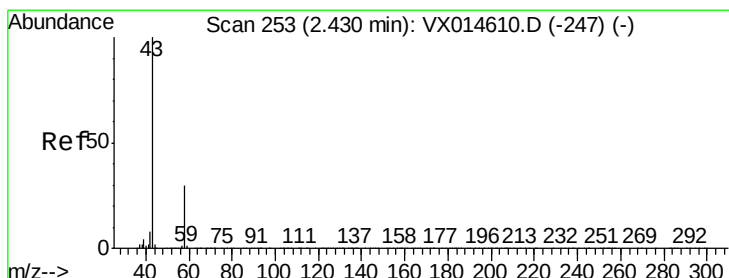
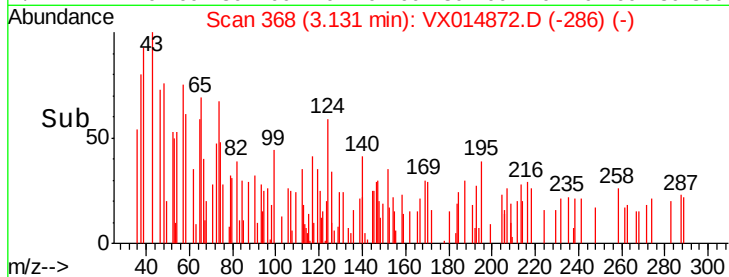
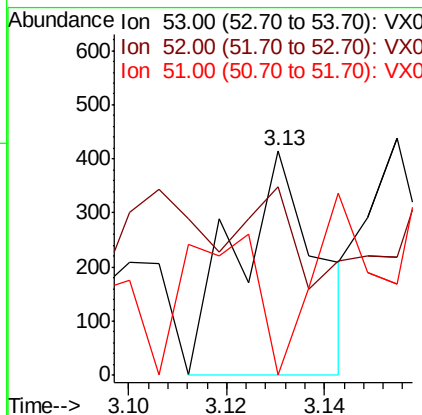
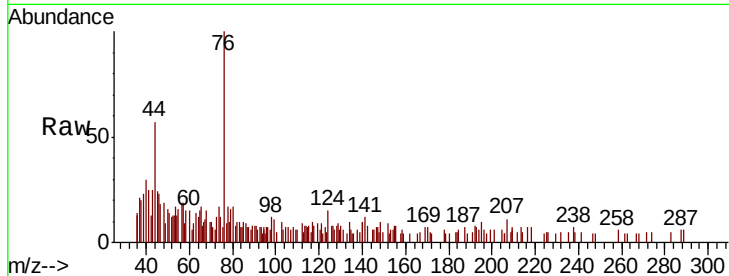
Delta R.T. 0.00 min

Lab File: VX014872.D

Acq: 07 Feb 2020 15:37

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	53	Resp:	477
Ion	Ratio	Lower	Upper
53	100		
52	42.3	41.5	124.6
51	55.6	17.8	53.5#



#15

Acetone

Concen: 919.948 ug/l

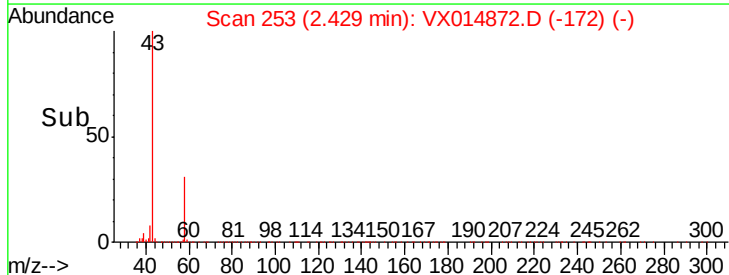
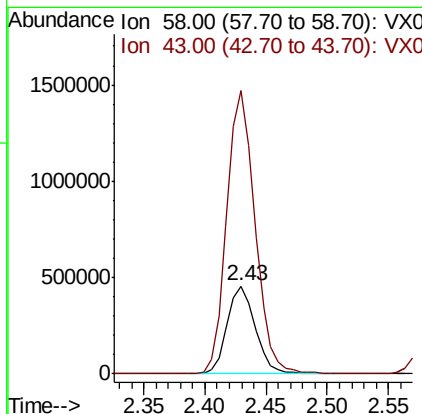
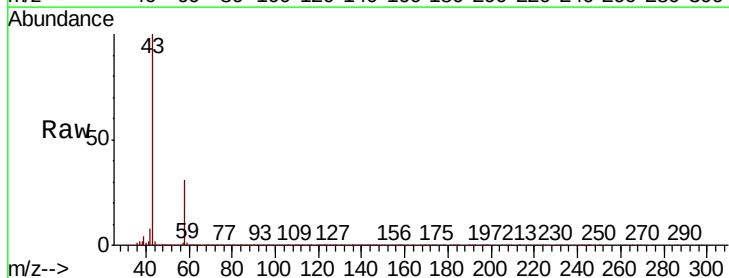
RT: 2.43 min Scan# 253

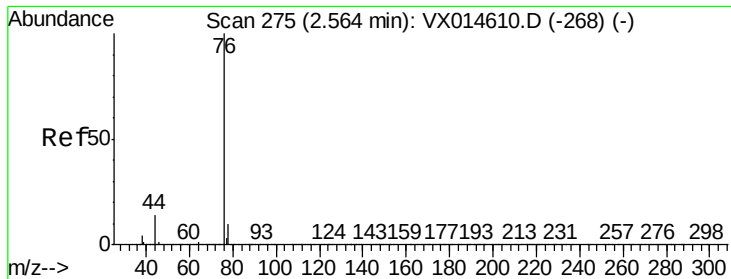
Delta R.T. -0.01 min

Lab File: VX014872.D

Acq: 07 Feb 2020 15:37

Tgt Ion:	58	Resp:	721709
Ion	Ratio	Lower	Upper
58	100		
43	322.8	236.3	354.5

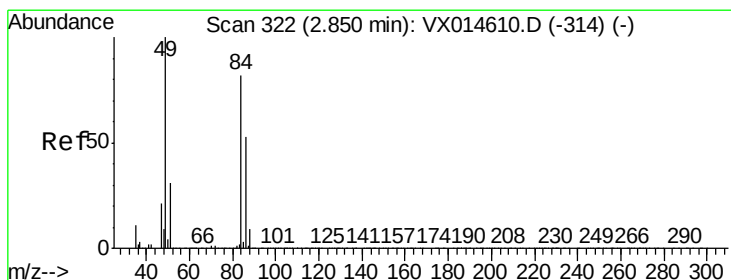
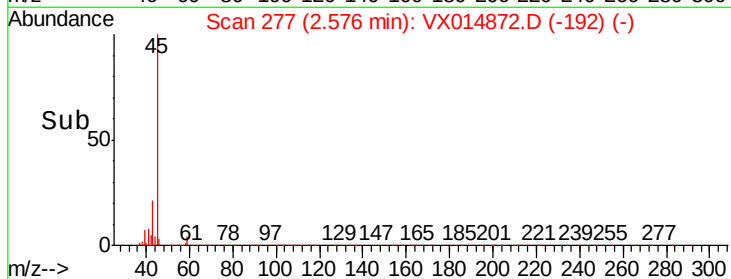
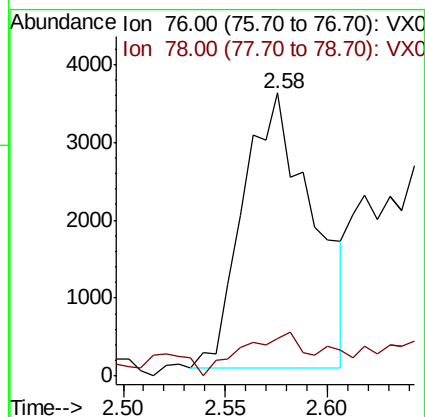
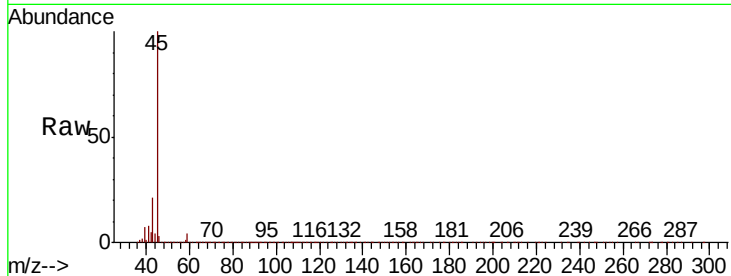




#16
Carbon Disulfide
Concen: 0.804 ug/l
RT: 2.58 min Scan# 277
Delta R.T. 0.02 min
Lab File: VX014872.D
Acq: 07 Feb 2020 15:37

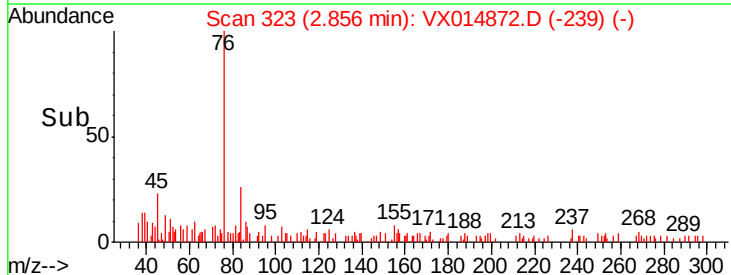
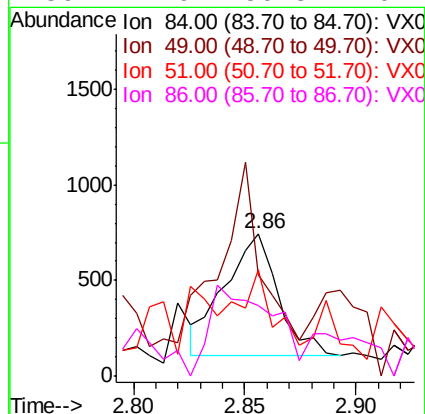
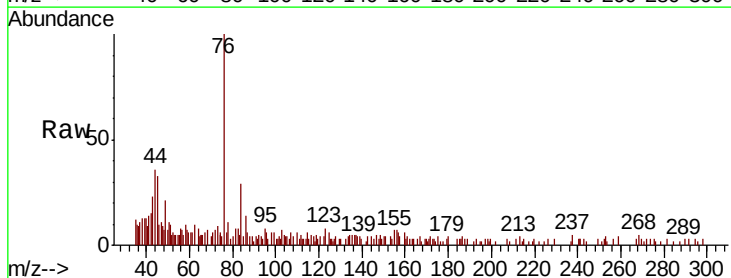
Instrument :
MSVOA_X
ClientSampleId :

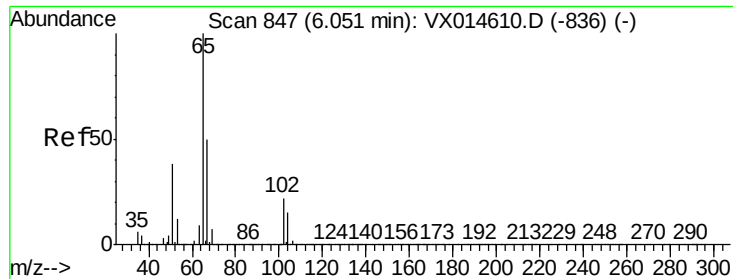
Tot Ion: 76 Resp: 8364
Ion Ratio Lower Upper
76 100
78 7.1 7.8 11.8#



#18
Methylene Chloride
Concen: 0.238 ug/l
RT: 2.86 min Scan# 323
Delta R.T. 0.01 min
Lab File: VX014872.D
Acq: 07 Feb 2020 15:37

Tgt Ion: 84 Resp: 1056
Ion Ratio Lower Upper
84 100
49 21.0 102.2 153.2#
51 74.6 31.4 47.0#
86 41.9 50.8 76.2#

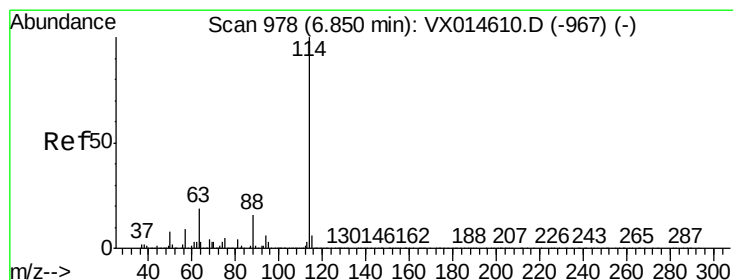
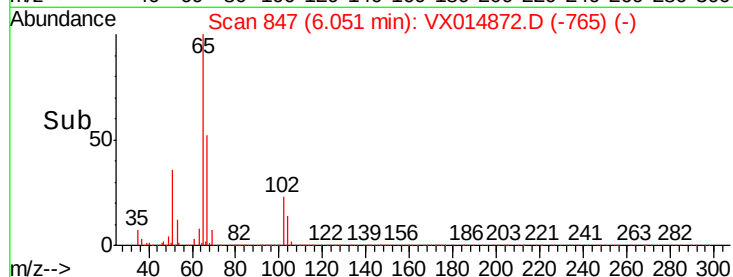
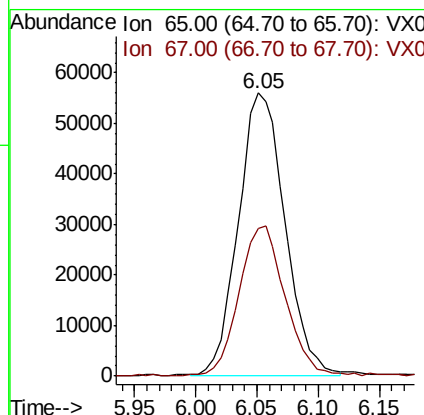
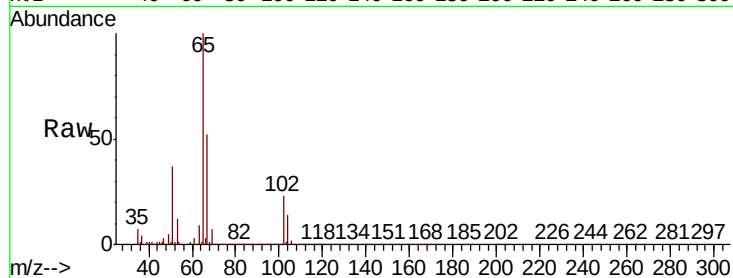




#27
 1,2-Dichloroethane-d4
 Concen: 30.711 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. 0.00 min
 Lab File: VX014872.D
 Acq: 07 Feb 2020 15:37

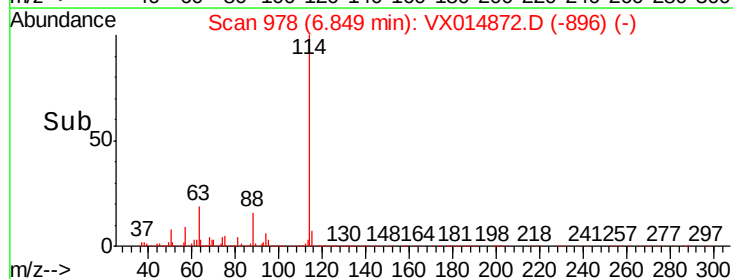
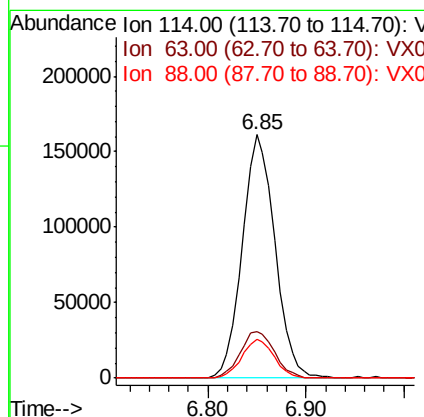
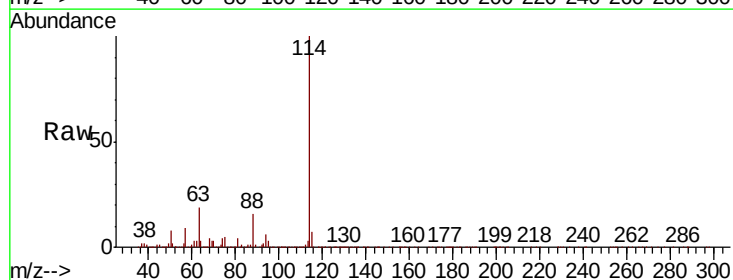
Instrument :
 MSVOA_X
 ClientSampled :

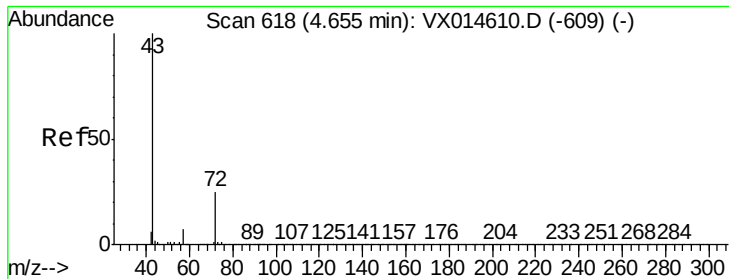
Tot Ion: 65 Resp: 147624
 Ion Ratio Lower Upper
 65 100
 67 52.2 43.1 64.7



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX014872.D
 Acq: 07 Feb 2020 15:37

Tgt Ion: 114 Resp: 373244
 Ion Ratio Lower Upper
 114 100
 63 19.7 16.1 24.1
 88 15.7 12.5 18.7

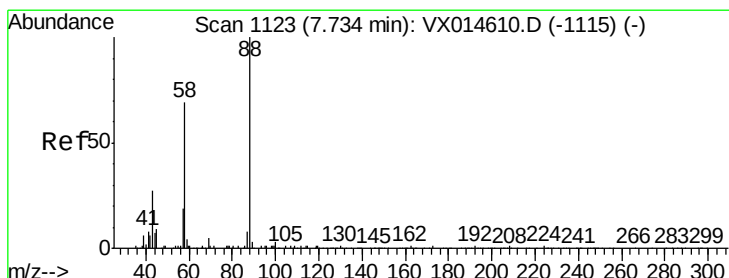
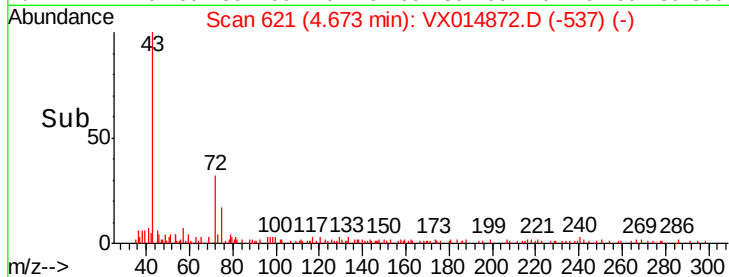
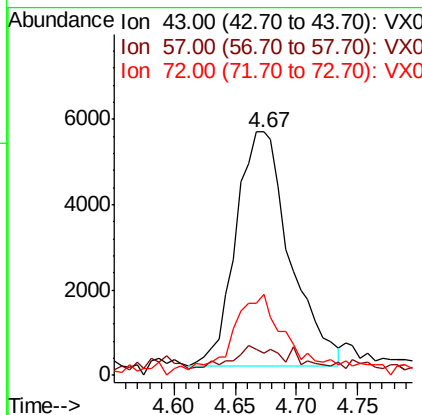
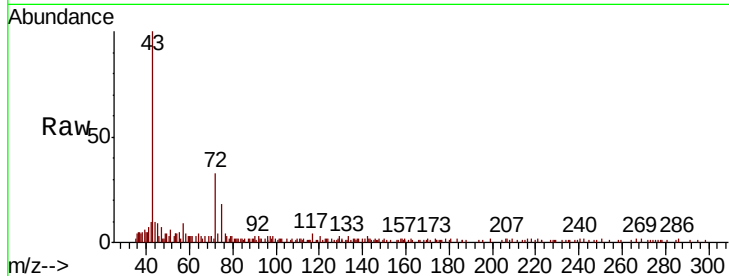




#30
2-Butanone
Concen: 4.891 ug/l
RT: 4.67 min Scan# 621
Delta R.T. 0.01 min
Lab File: VX014872.D
Acq: 07 Feb 2020 15:37

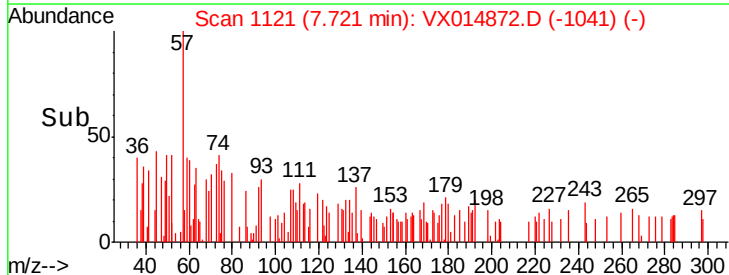
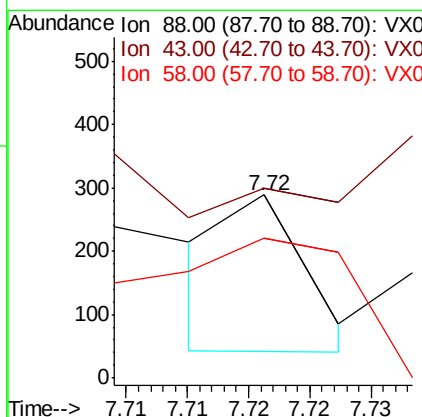
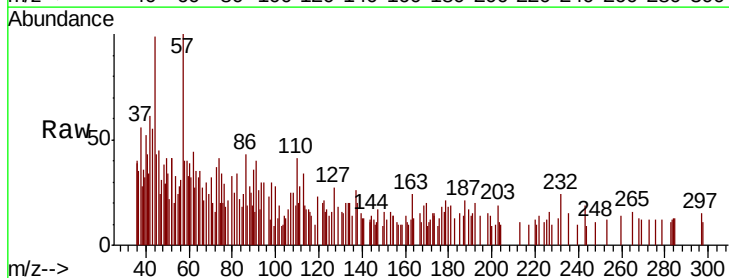
Instrument :
MSVOA_X
ClientSampleId :

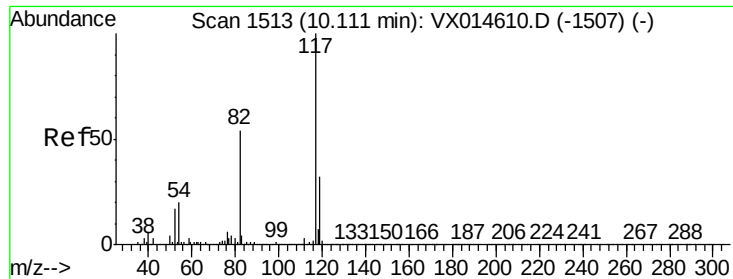
Tot Ion: 43 Resp: 16959
Ion Ratio Lower Upper
43 100
57 4.2 6.2 9.2#
72 26.7 20.3 30.5



#45
1,4-Dioxane
Concen: 1.046 ug/l
RT: 7.72 min Scan# 1121
Delta R.T. -0.01 min
Lab File: VX014872.D
Acq: 07 Feb 2020 15:37

Tgt Ion: 88 Resp: 106
Ion Ratio Lower Upper
88 100
43 90.6 25.4 38.2#
58 202.8 56.5 84.7#

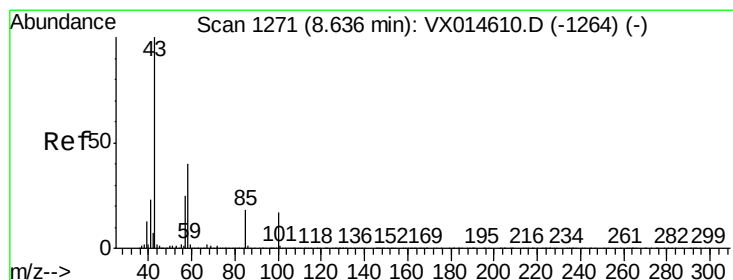
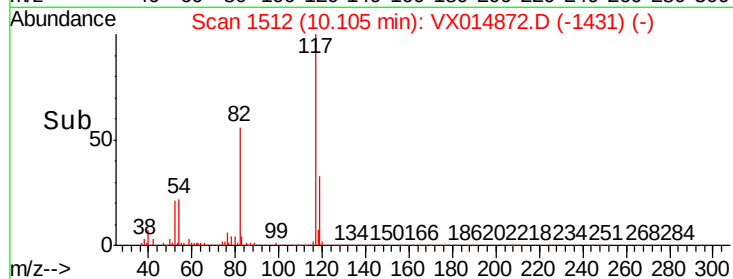
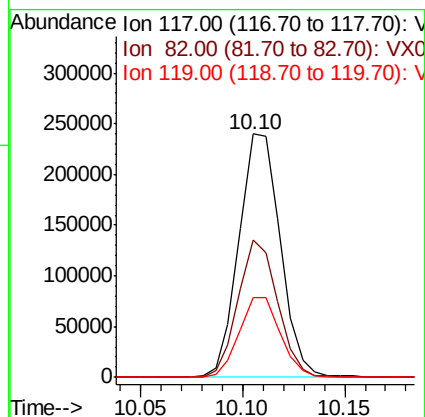
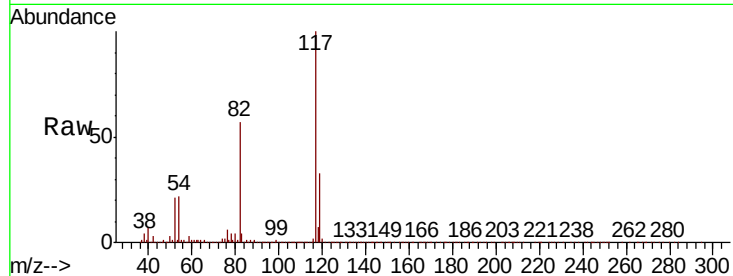




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.10 min Scan# 1512
Delta R.T. -0.01 min
Lab File: VX014872.D
Acq: 07 Feb 2020 15:37

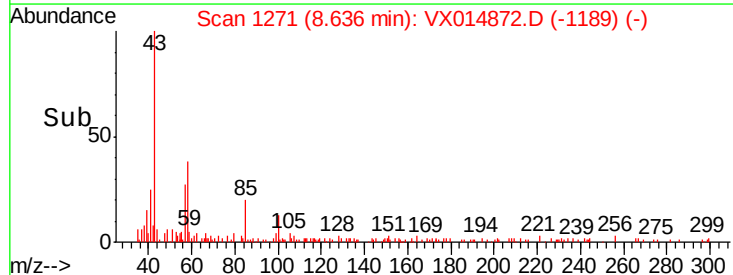
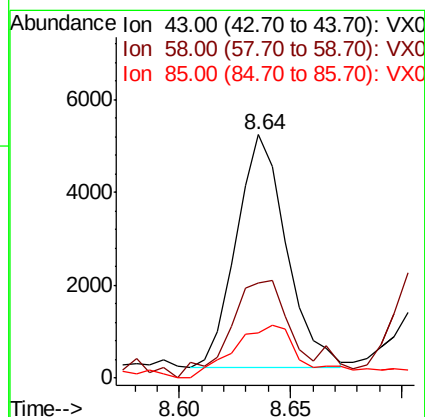
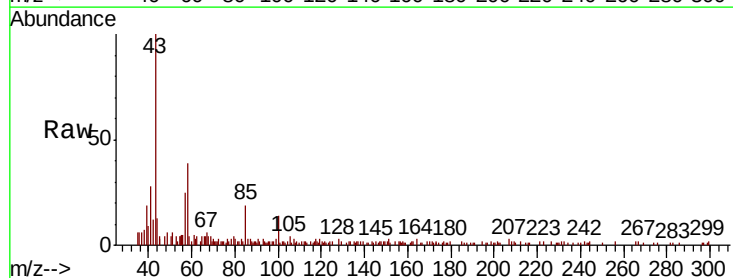
Instrument :
MSVOA_X
ClientSampleId :

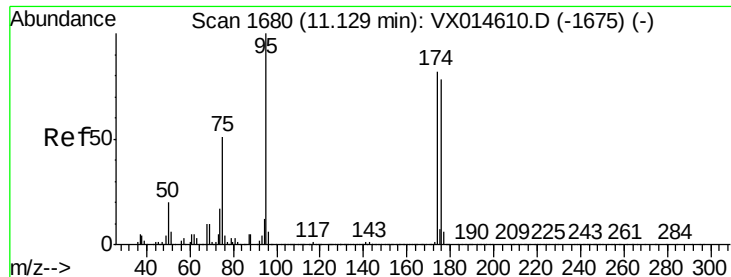
Tot Ion:117 Resp: 338704
Ion Ratio Lower Upper
117 100
82 53.6 43.8 65.6
119 32.8 25.8 38.6



#58
4-Methyl-2-Pentanone
Concen: 1.226 ug/l
RT: 8.64 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VX014872.D
Acq: 07 Feb 2020 15:37

Tgt Ion: 43 Resp: 7817
Ion Ratio Lower Upper
43 100
58 41.4 31.2 46.8
85 27.6 14.2 21.2#

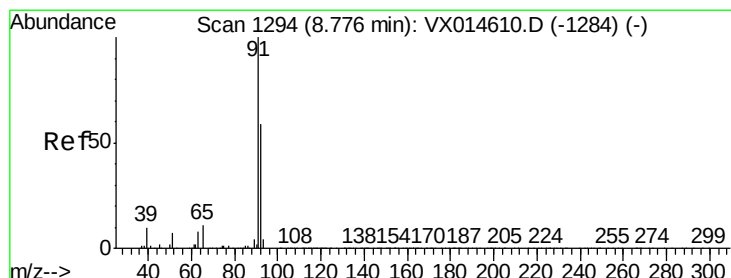
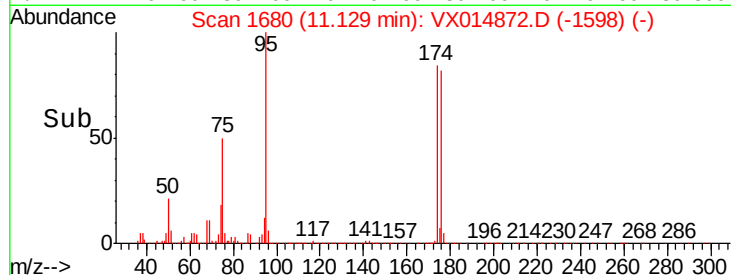
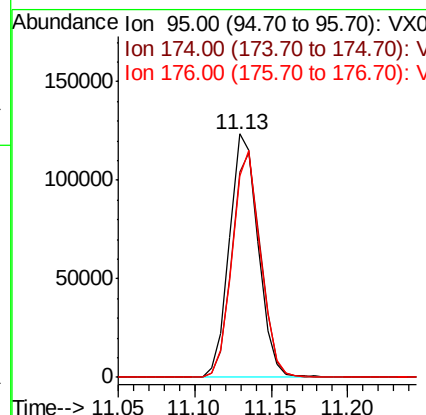
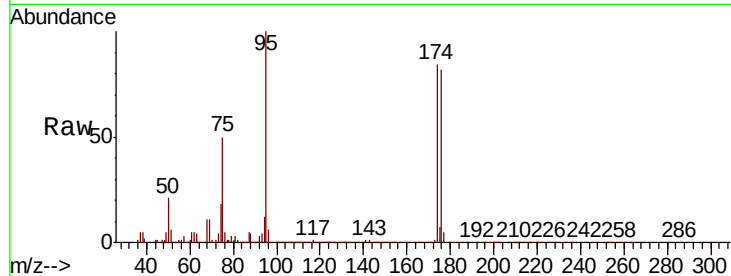




#60
4-Bromofluorobenzene
Concen: 29.678 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VX014872.D
Acq: 07 Feb 2020 15:37

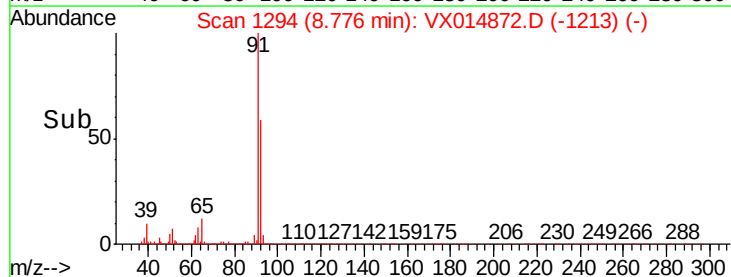
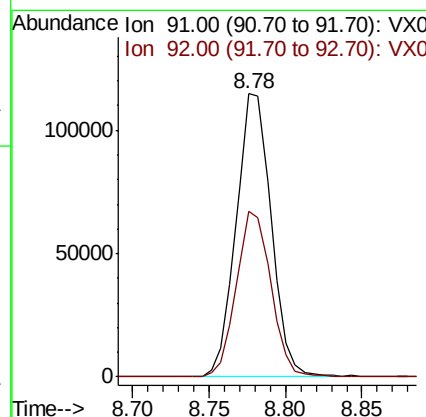
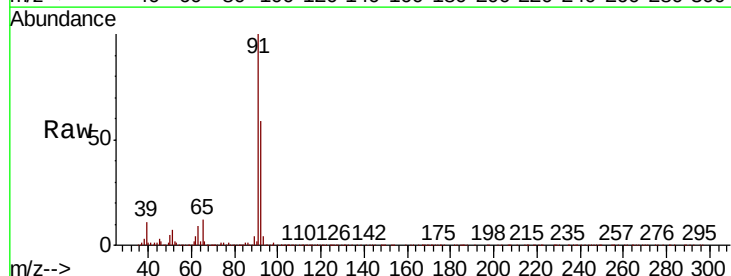
Instrument :
MSVOA_X
ClientSampleId :

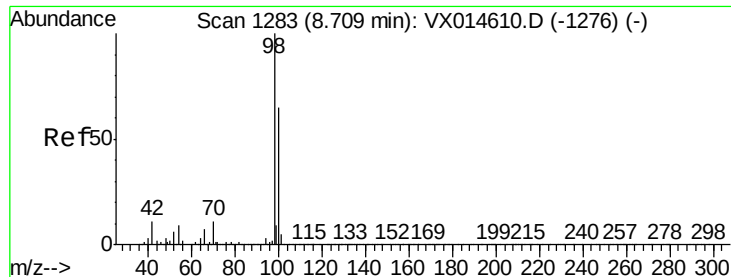
Tot Ion	Ratio	Lower	Upper
95	100		
174	92.1	70.2	105.2
176	91.3	68.3	102.5



#62
Toluene
Concen: 10.147 ug/l
RT: 8.78 min Scan# 1294
Delta R.T. -0.01 min
Lab File: VX014872.D
Acq: 07 Feb 2020 15:37

Tgt Ion	Ratio	Lower	Upper
91	100		
92	58.2	46.4	69.6

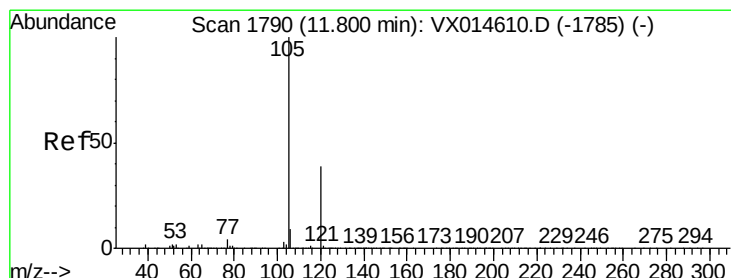
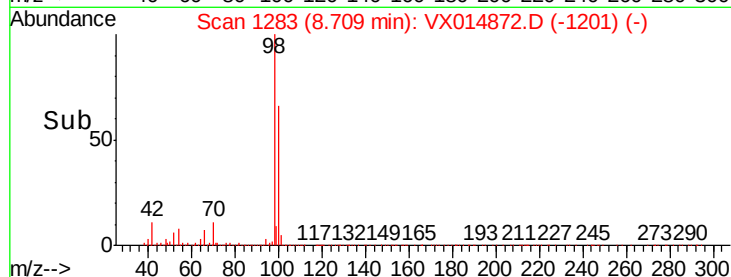
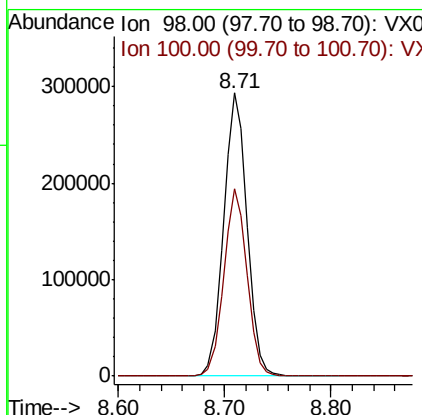
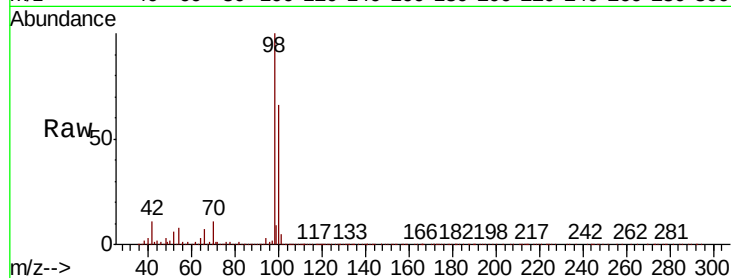




#63
Toluene-d8
Concen: 29.427 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX014872.D
Acq: 07 Feb 2020 15:37

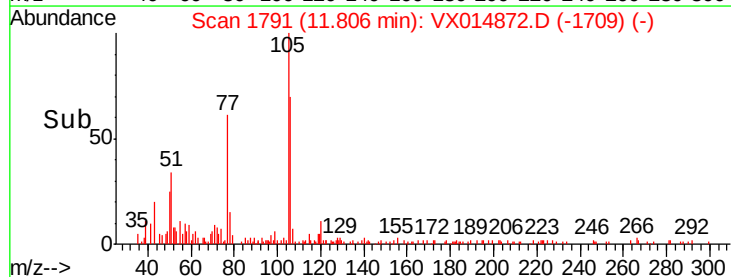
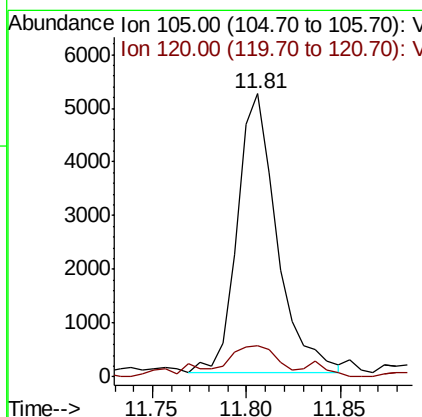
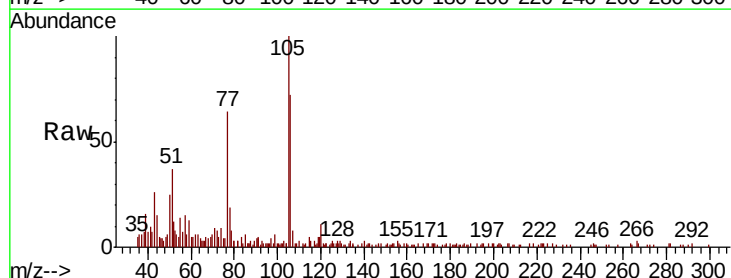
Instrument :
MSVOA_X
ClientSampleId :

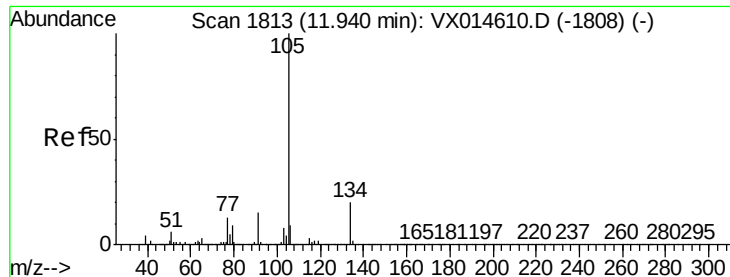
Tot Ion: 98 Resp: 450214
Ion Ratio Lower Upper
98 100
100 65.2 52.2 78.2



#80
1,2,4-Trimethylbenzene
Concen: 0.474 ug/l
RT: 11.81 min Scan# 1791
Delta R.T. -0.00 min
Lab File: VX014872.D
Acq: 07 Feb 2020 15:37

Tgt Ion:105 Resp: 7541
Ion Ratio Lower Upper
105 100
120 8.7 0.0 92.0

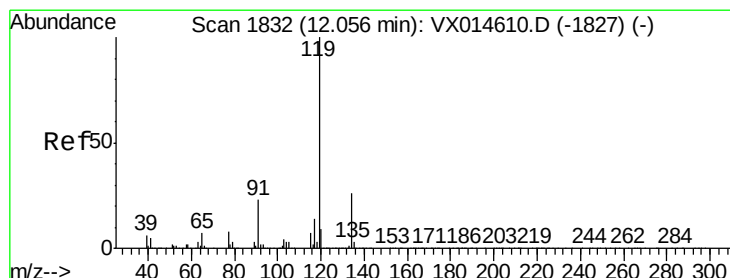
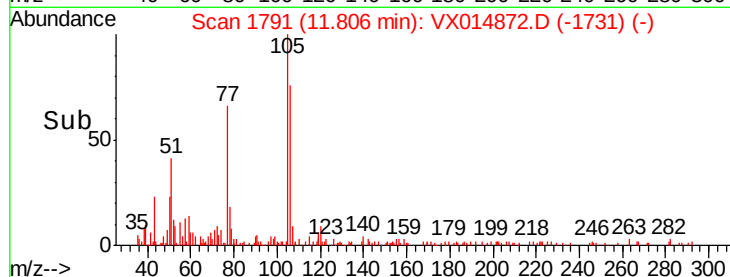
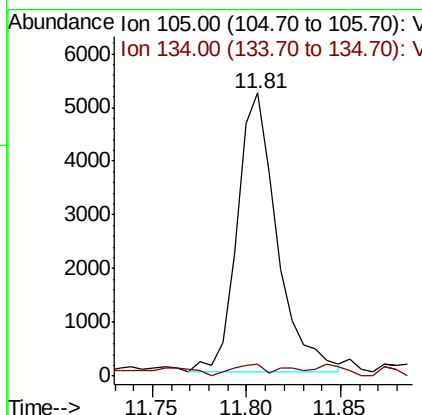
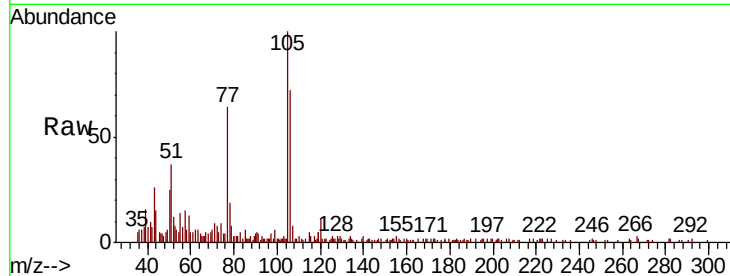




#81
 sec-Butylbenzene
 Concen: 0.409 ug/l
 RT: 11.81 min Scan# 1791
 Delta R.T. -0.13 min
 Lab File: VX014872.D
 Acq: 07 Feb 2020 15:37

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:105 Resp: 7541
 Ion Ratio Lower Upper
 105 100
 134 3.6 0.0 40.2



#82
 p-Isopropyltoluene
 Concen: 0.214 ug/l
 RT: 12.06 min Scan# 1833
 Delta R.T. 0.00 min
 Lab File: VX014872.D
 Acq: 07 Feb 2020 15:37

Tgt Ion:119 Resp: 3611
 Ion Ratio Lower Upper
 119 100
 134 28.7 0.0 53.8
 91 25.3 0.0 45.0

