

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX020720\
 Data File : VX014871.D
 Acq On : 07 Feb 2020 15:14
 Operator : JC/SP
 Sample : L1410-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Feb 07 22:13:08 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	67614	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	383442	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	341998	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	147978	31.14	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	103.80%
60) 4-Bromofluorobenzene	11.13	95	159578	29.16	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.20%
63) Toluene-d8	8.71	98	447687	28.98	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	96.60%

Target Compounds

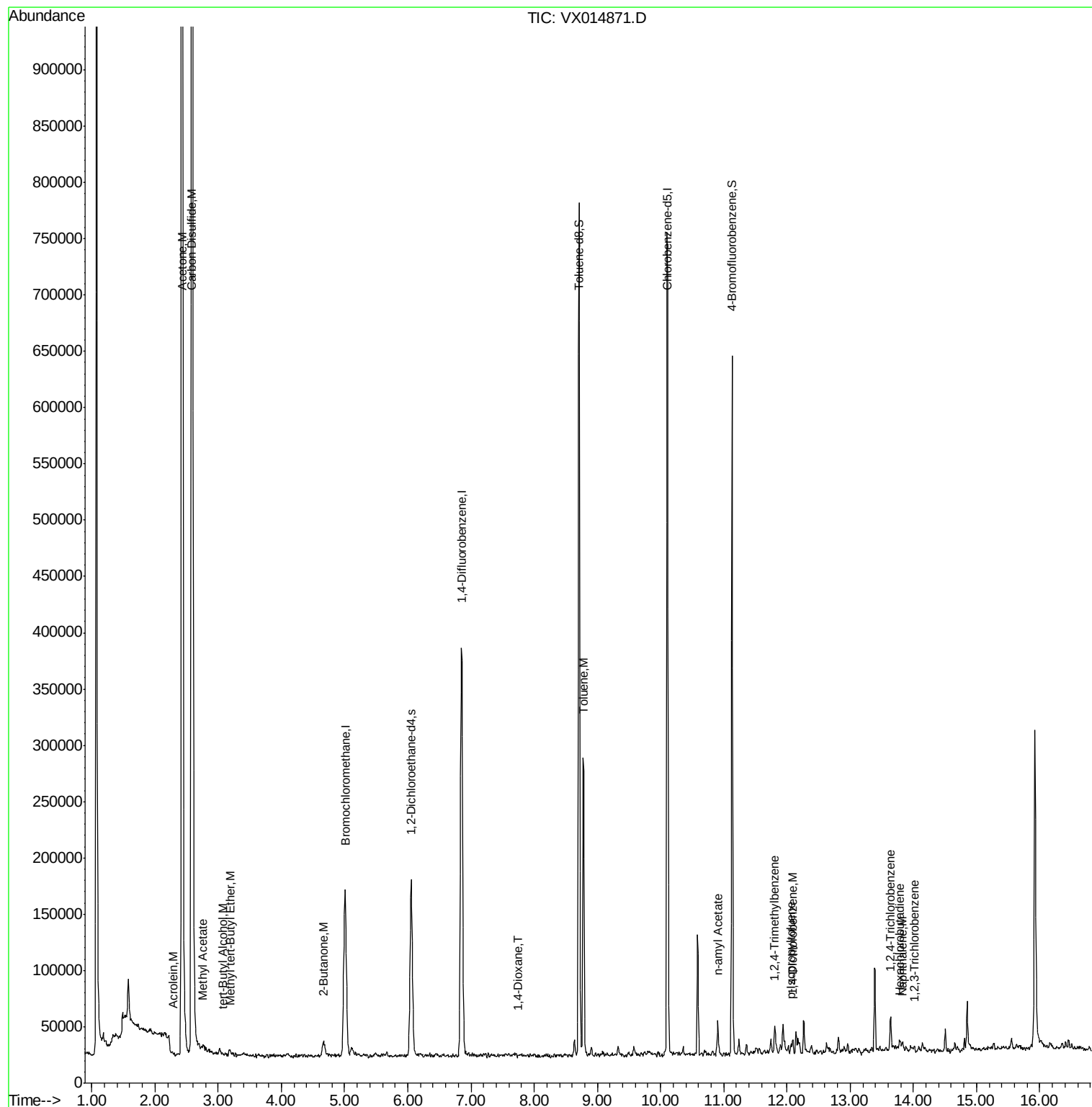
					Ovalue	
12) Methyl Acetate	2.76	43	4314	0.638	ug/l	92
13) Acrolein	2.29	56	358	0.504	ug/l	86
15) Acetone	2.43	58	719202	927.247	ug/l	84
16) Carbon Disulfide	2.58	76	9840	0.957	ug/l #	90
23) tert-Butyl Alcohol	3.08	59	231	0.241	ug/l #	24
24) Methyl tert-Butyl Ether	3.19	73	7425	0.596	ug/l	95
30) 2-Butanone	4.67	43	18158	5.097	ug/l #	95
45) 1,4-Dioxane	7.75	88	230	2.210	ug/l #	54
47) n-amyl Acetate	10.90	43	5395	0.619	ug/l #	1
62) Toluene	8.78	91	175913	9.695	ug/l	99
80) 1,2,4-Trimethylbenzene	11.81	105	7424	0.463	ug/l	52
82) p-Isopropyltoluene	12.06	119	3408	0.200	ug/l	91
84) 1,4-Dichlorobenzene	12.10	146	2031	0.229	ug/l	90
89) 1,2,4-Trichlorobenzene	13.65	180	1709	0.287	ug/l #	87
90) Hexachlorobutadiene	13.79	225	663	0.223	ug/l	89
91) Naphthalene	13.83	128	4590	0.255	ug/l #	90
92) 1,2,3-Trichlorobenzene	14.02	180	1493	0.246	ug/l	81

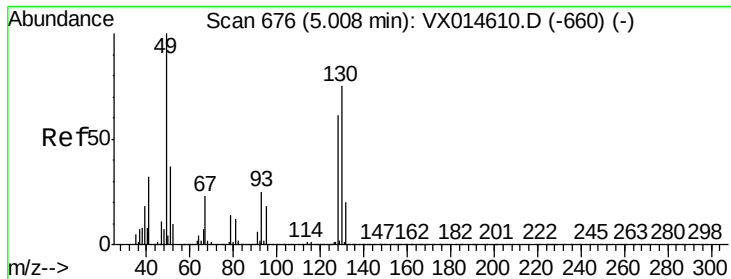
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 5.01 min Scan# 676

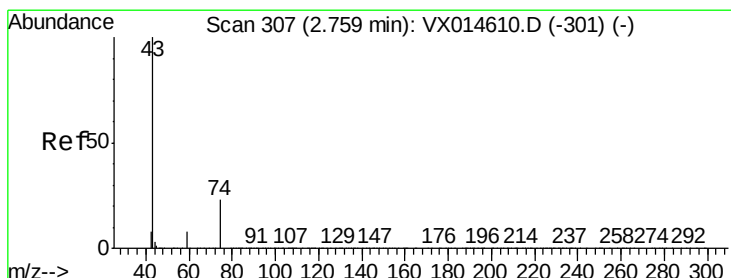
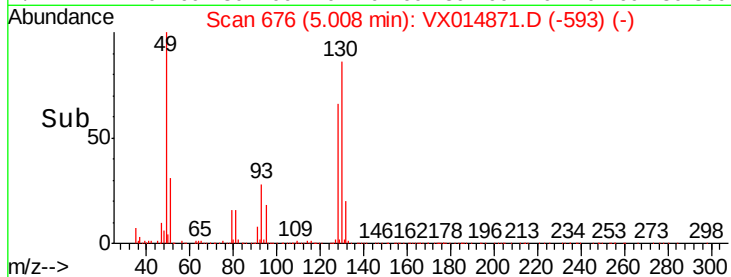
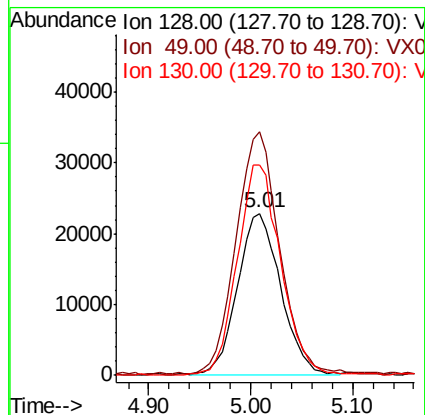
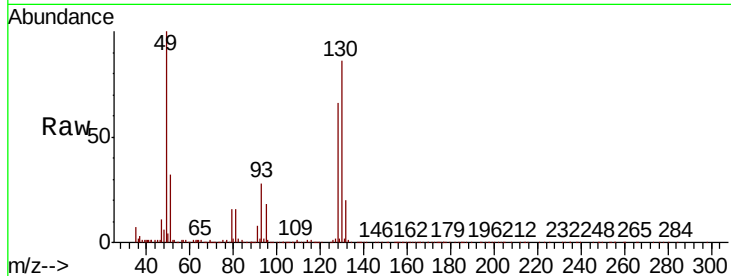
Delta R.T. 0.01 min

Lab File: VX014871.D

Acq: 07 Feb 2020 15:14

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	128	Resp:	67614
Ion	Ratio	Lower	Upper
128	100		
49	148.6	0.0	405.0
130	129.8	0.0	321.5



#12

Methyl Acetate

Concen: 0.638 ug/l

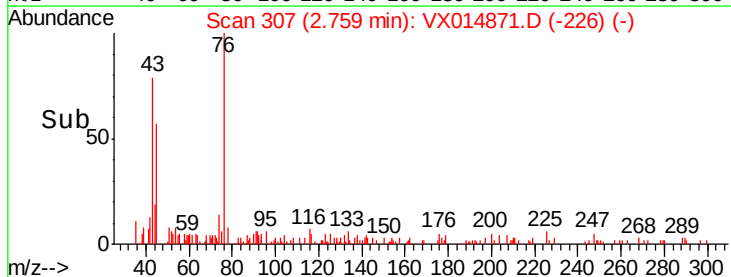
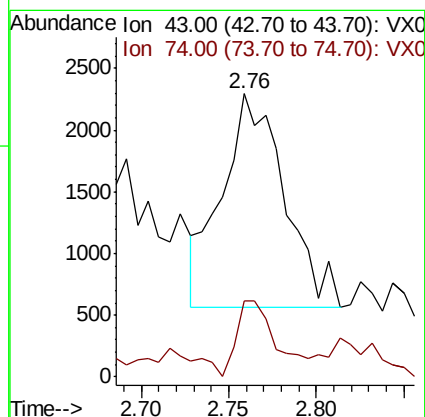
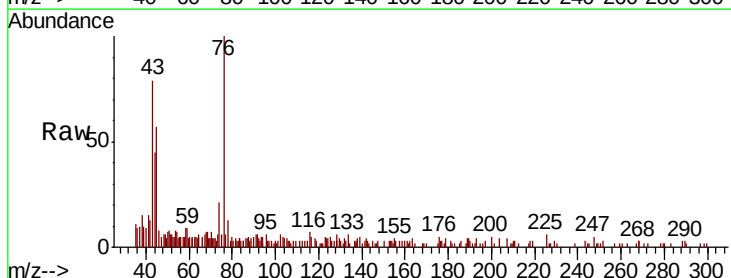
RT: 2.76 min Scan# 307

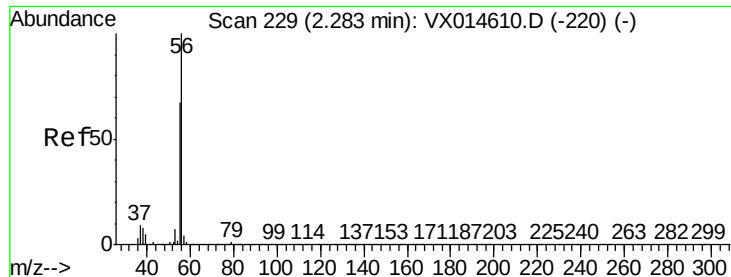
Delta R.T. -0.01 min

Lab File: VX014871.D

Acq: 07 Feb 2020 15:14

Tgt Ion:	43	Resp:	4314
Ion	Ratio	Lower	Upper
43	100		
74	27.1	18.5	27.7

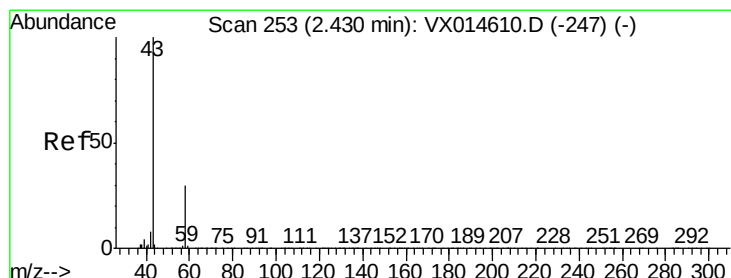
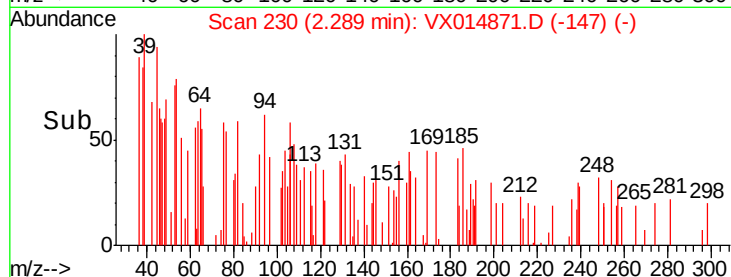
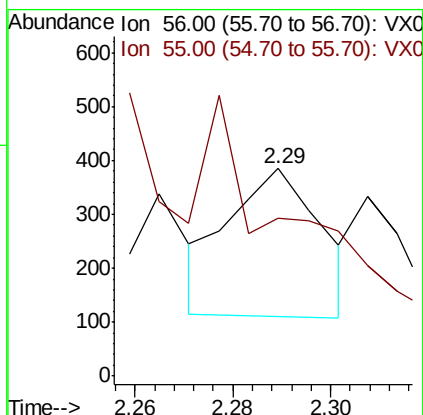
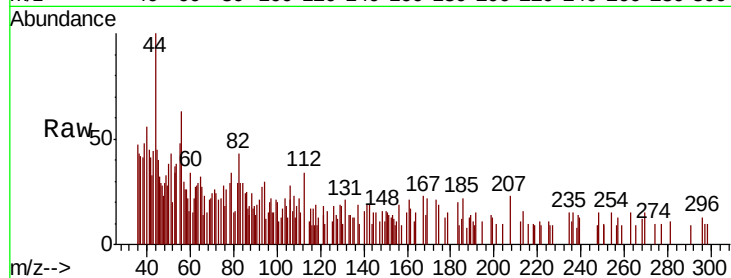




#13
Acrolein
Concen: 0.504 ug/l
RT: 2.29 min Scan# 230
Delta R.T. 0.01 min
Lab File: VX014871.D
Acq: 07 Feb 2020 15:14

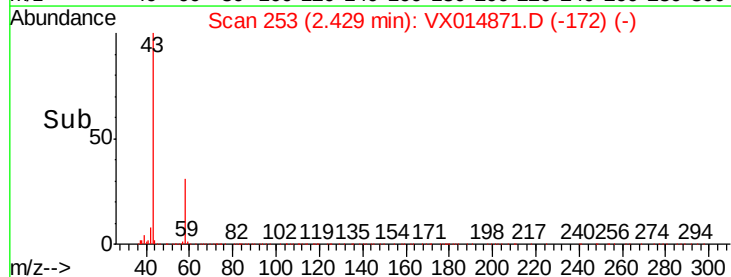
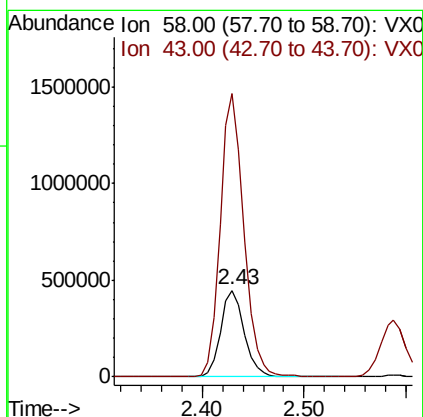
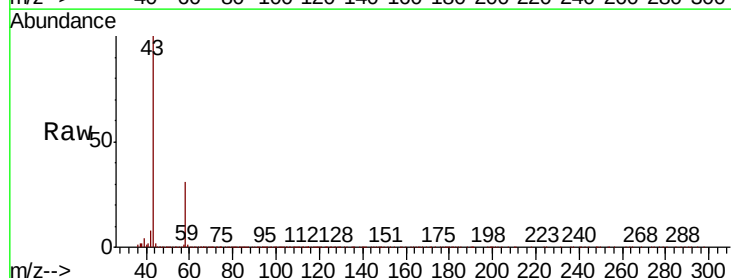
Instrument :
MSVOA_X
ClientSampleId :

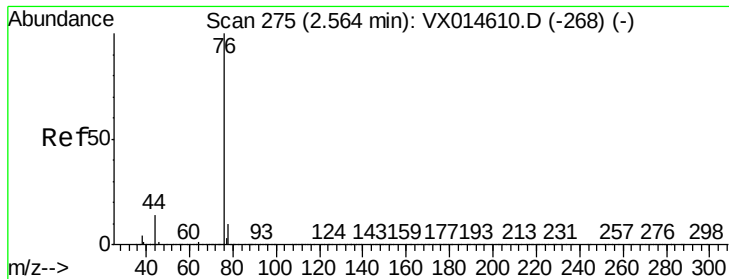
Tot Ion: 56 Resp: 358
Ion Ratio Lower Upper
56 100
55 57.5 54.9 82.3



#15
Acetone
Concen: 927.247 ug/l
RT: 2.43 min Scan# 253
Delta R.T. -0.01 min
Lab File: VX014871.D
Acq: 07 Feb 2020 15:14

Tgt Ion: 58 Resp: 719202
Ion Ratio Lower Upper
58 100
43 326.5 236.3 354.5

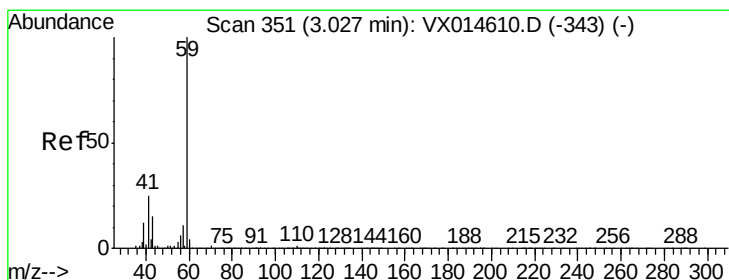
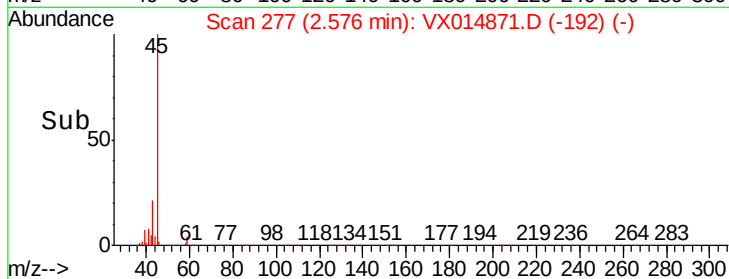
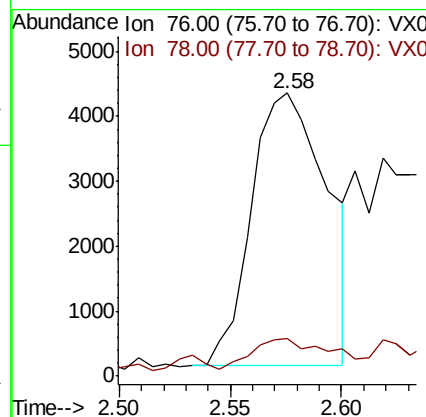
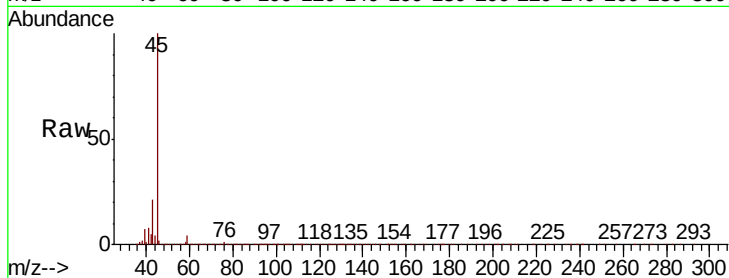




#16
Carbon Disulfide
Concen: 0.957 ug/l
RT: 2.58 min Scan# 277
Delta R.T. 0.02 min
Lab File: VX014871.D
Acq: 07 Feb 2020 15:14

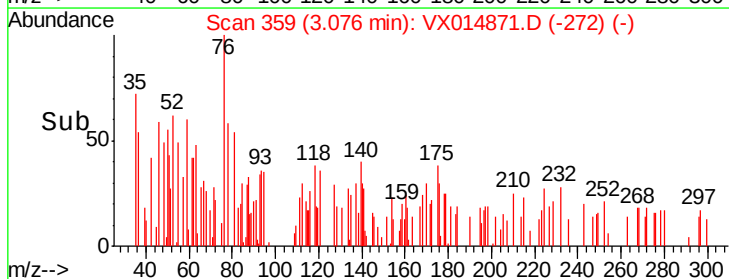
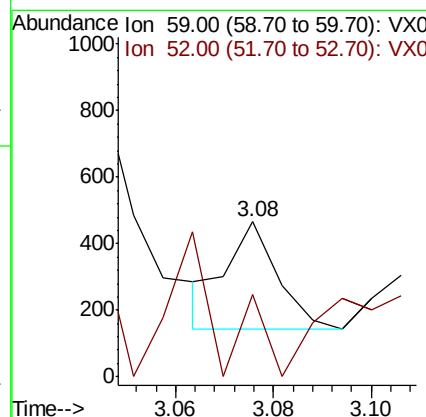
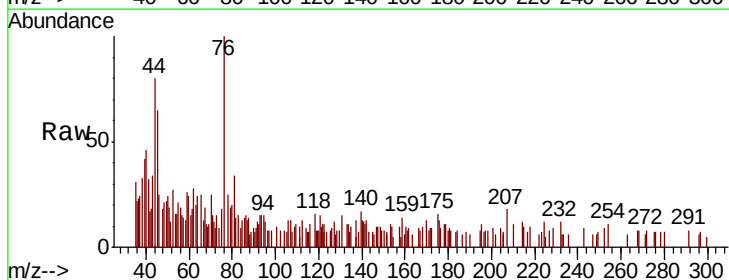
Instrument :
MSVOA_X
ClientSampleId :

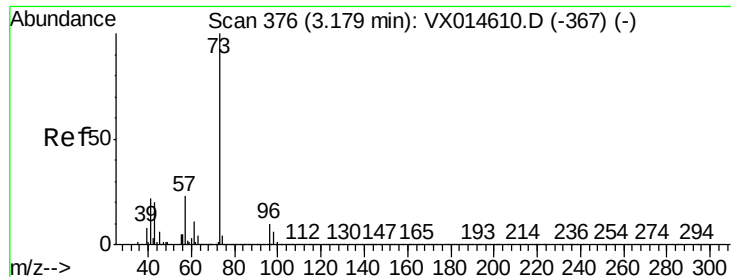
Tot Ion: 76 Resp: 9840
Ion Ratio Lower Upper
76 100
78 6.0 7.8 11.8#



#23
tert-Butyl Alcohol
Concen: 0.241 ug/l
RT: 3.08 min Scan# 359
Delta R.T. 0.03 min
Lab File: VX014871.D
Acq: 07 Feb 2020 15:14

Tgt Ion: 59 Resp: 231
Ion Ratio Lower Upper
59 100
52 97.0 0.2 0.2#



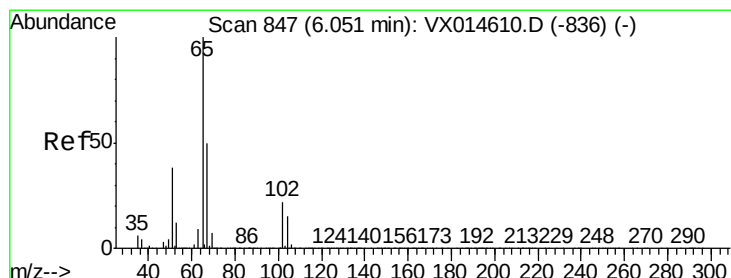
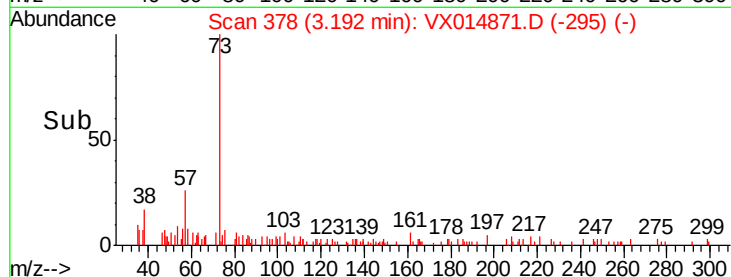
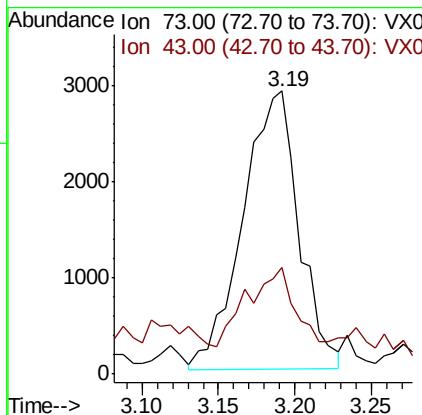
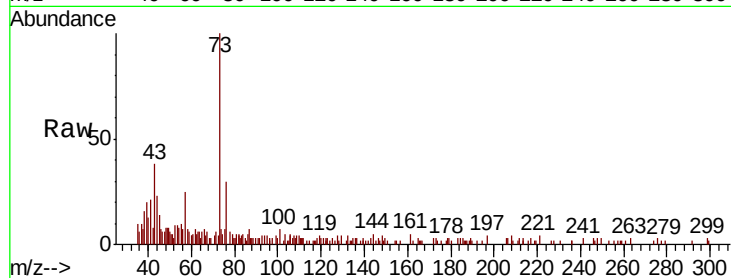


#24

Methyl tert-Butyl Ether
 Concen: 0.596 ug/l
 RT: 3.19 min Scan# 378
 Delta R.T. 0.01 min
 Lab File: VX014871.D
 Acq: 07 Feb 2020 15:14

Instrument :
 MSVOA_X
 ClientSampleId :

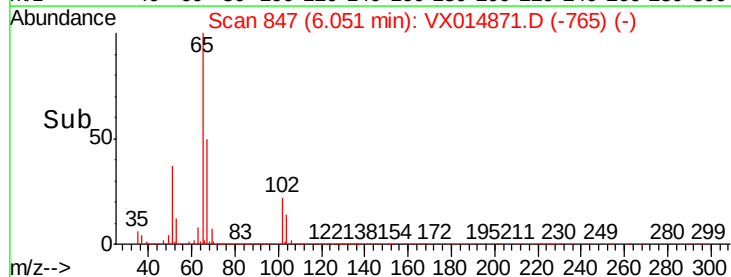
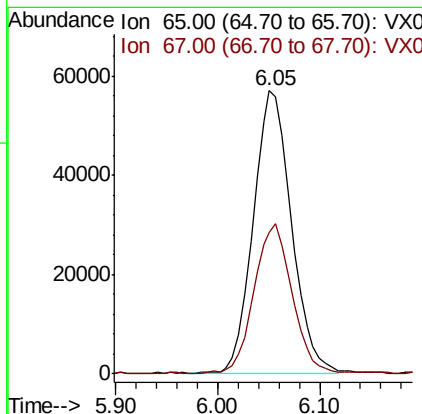
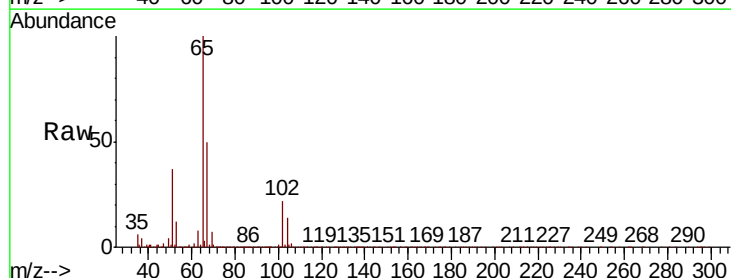
Tot Ion: 73 Resp: 7425
 Ion Ratio Lower Upper
 73 100
 43 23.2 16.6 25.0

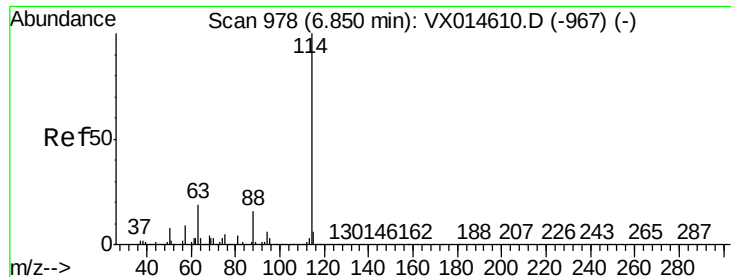


#27

1,2-Dichloroethane-d4
 Concen: 31.137 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. 0.00 min
 Lab File: VX014871.D
 Acq: 07 Feb 2020 15:14

Tgt Ion: 65 Resp: 147978
 Ion Ratio Lower Upper
 65 100
 67 52.4 43.1 64.7

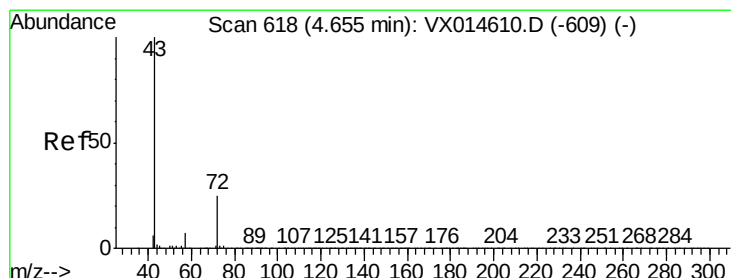
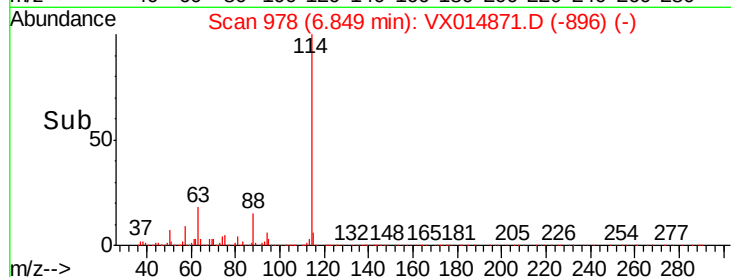
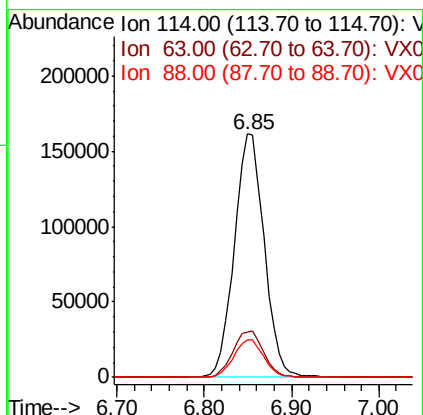
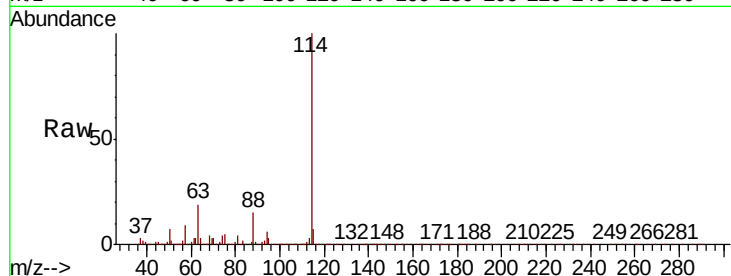




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX014871.D
 Acq: 07 Feb 2020 15:14

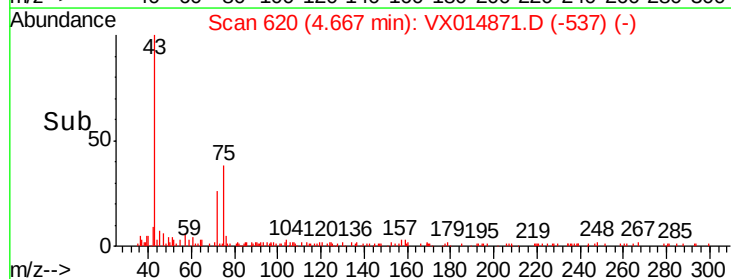
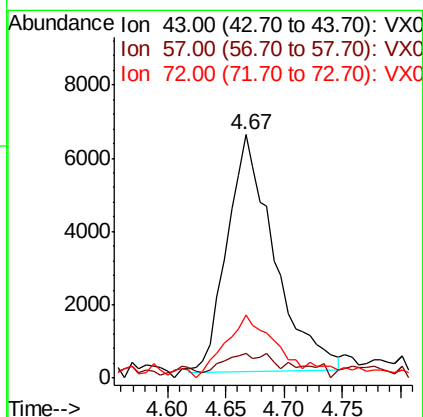
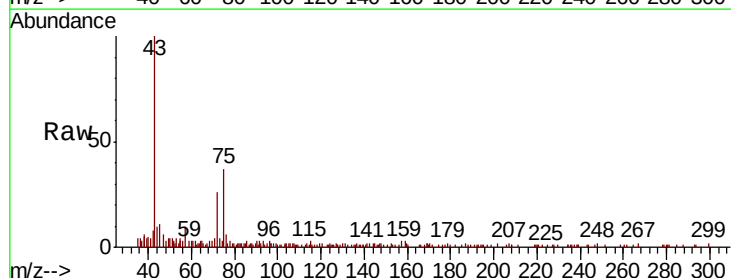
Instrument :
 MSVOA_X
 ClientSampleId :

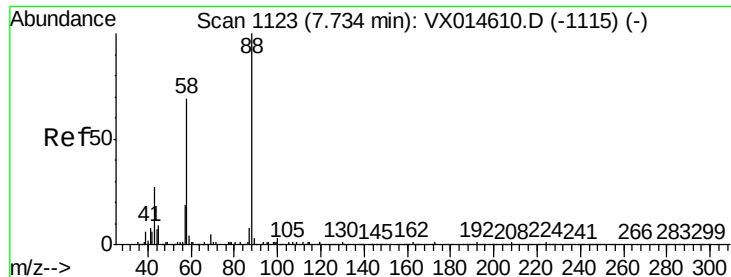
Tot Ion	Ratio	Lower	Upper
114	100		
63	19.4	16.1	24.1
88	15.5	12.5	18.7



#30
 2-Butanone
 Concen: 5.097 ug/l
 RT: 4.67 min Scan# 620
 Delta R.T. 0.01 min
 Lab File: VX014871.D
 Acq: 07 Feb 2020 15:14

Tgt Ion	Ratio	Lower	Upper
43	100		
57	4.7	6.2	9.2#
72	27.5	20.3	30.5





#45

1,4-Dioxane

Concen: 2.210 ug/l

RT: 7.75 min Scan# 1125

Delta R.T. 0.01 min

Lab File: VX014871.D

Acq: 07 Feb 2020 15:14

Instrument :
MSVOA_X
ClientSampled :

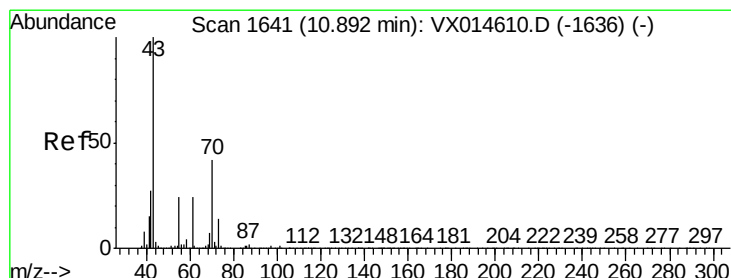
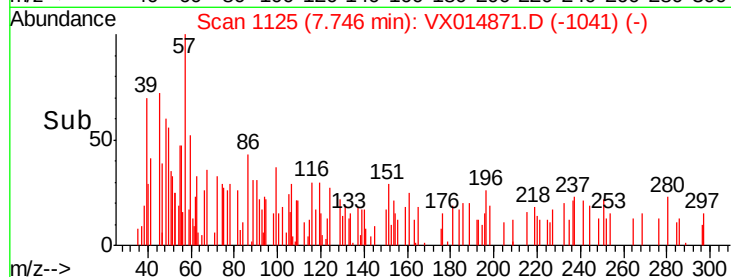
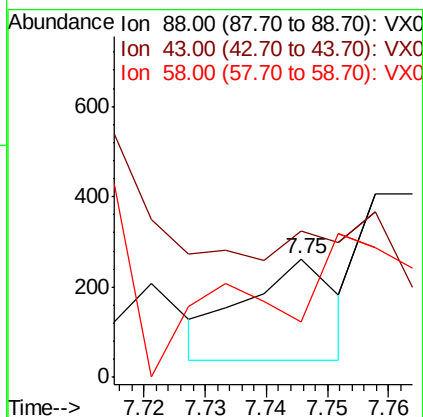
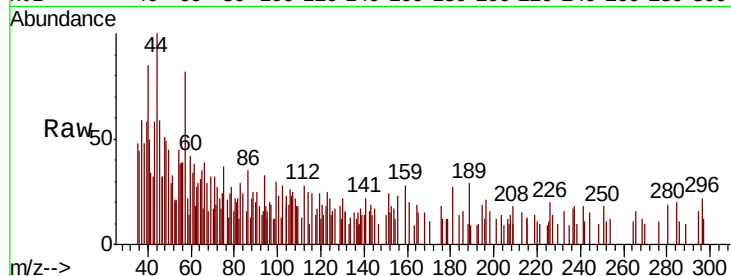
Tot Ion: 88 Resp: 230

Ion Ratio Lower Upper

88 100

43 0.0 25.4 38.2#

58 103.9 56.5 84.7#



#47

n-amyl Acetate

Concen: 0.619 ug/l

RT: 10.90 min Scan# 1643

Delta R.T. 0.01 min

Lab File: VX014871.D

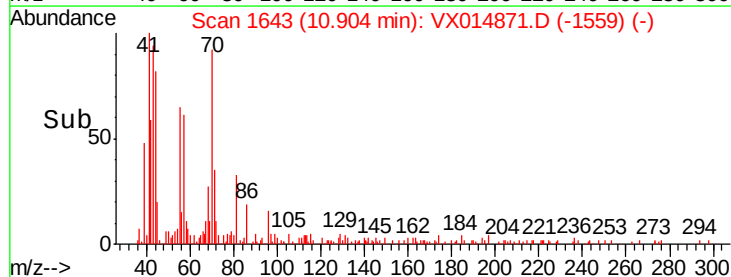
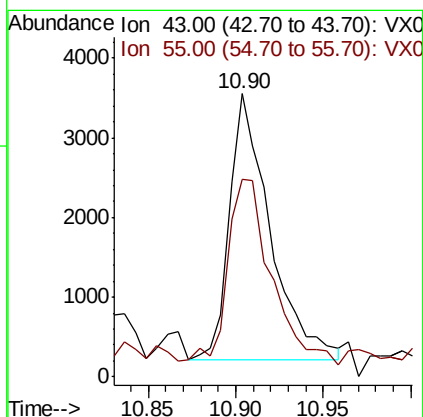
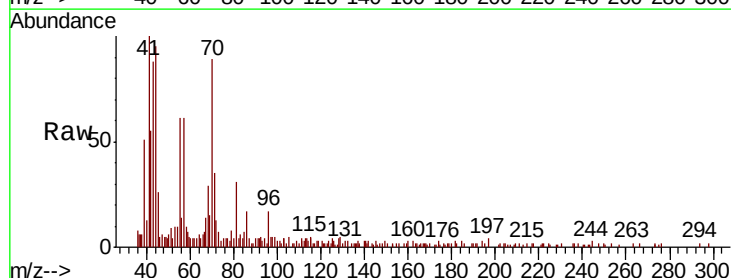
Acq: 07 Feb 2020 15:14

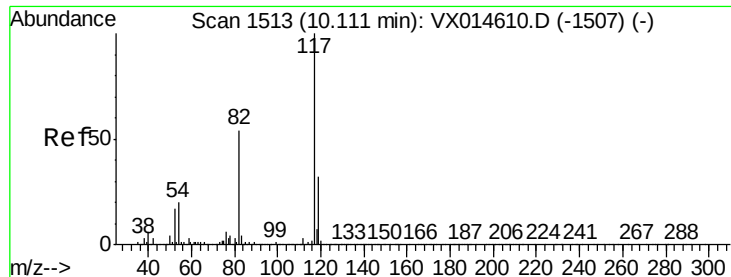
Tgt Ion: 43 Resp: 5395

Ion Ratio Lower Upper

43 100

55 74.3 19.4 29.2#

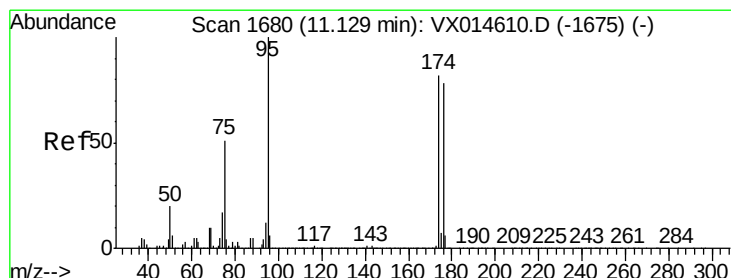
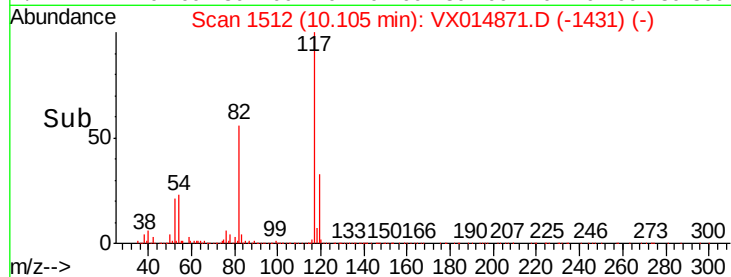
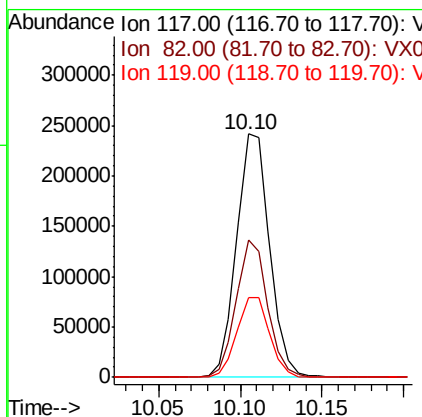
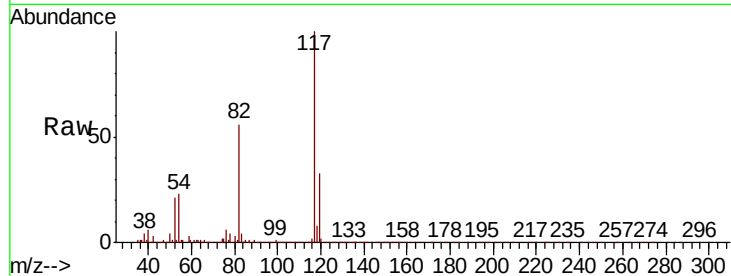




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.10 min Scan# 1512
Delta R.T. -0.01 min
Lab File: VX014871.D
Acq: 07 Feb 2020 15:14

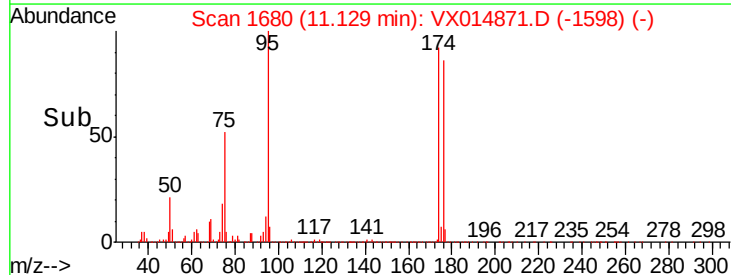
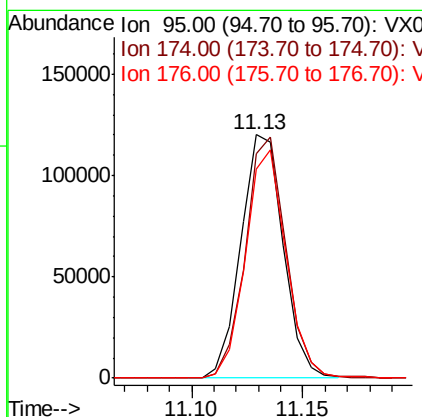
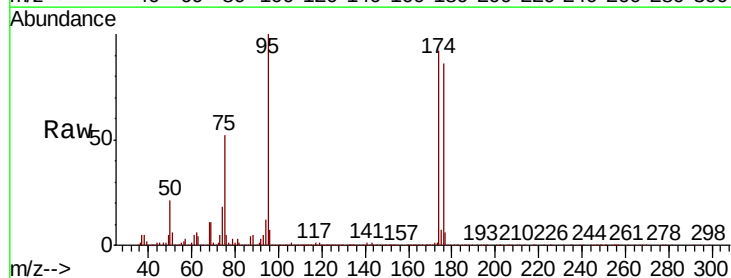
Instrument :
MSVOA_X
ClientSampleId :

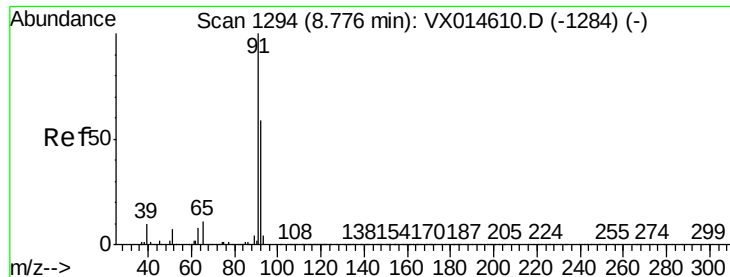
Tot Ion	Ratio	Lower	Upper
117	100		
82	53.4	43.8	65.6
119	32.4	25.8	38.6



#60
4-Bromofluorobenzene
Concen: 29.159 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VX014871.D
Acq: 07 Feb 2020 15:14

Tgt Ion	Ratio	Lower	Upper
95	100		
174	95.0	70.2	105.2
176	90.5	68.3	102.5





#62

Toluene

Concen: 9.695 ug/l

RT: 8.78 min Scan# 1294

Delta R.T. -0.01 min

Lab File: VX014871.D

Acq: 07 Feb 2020 15:14

Instrument :

MSVOA_X

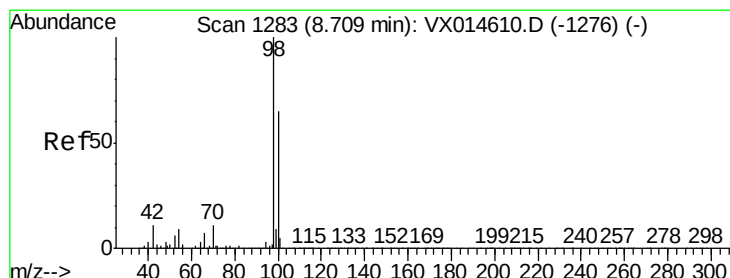
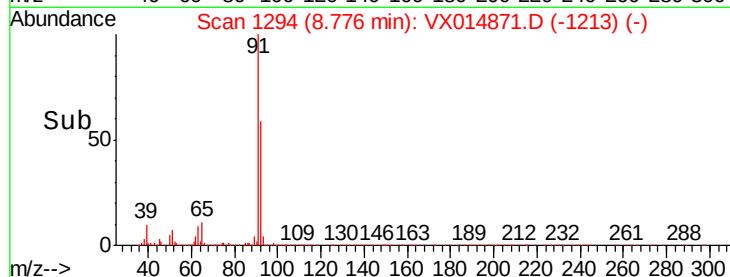
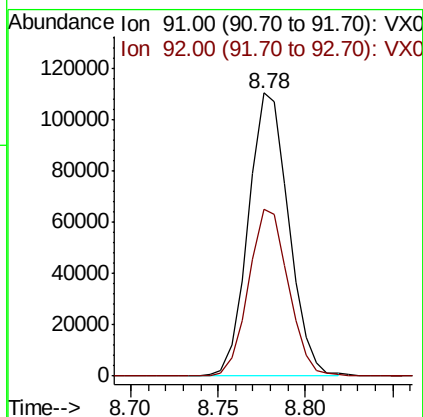
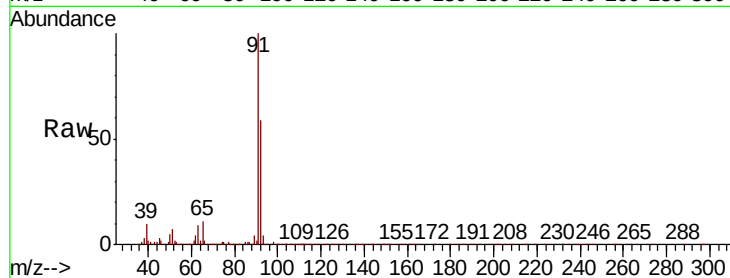
ClientSampleId :

Tot Ion: 91 Resp: 175913

Ion Ratio Lower Upper

91 100

92 58.8 46.4 69.6



#63

Toluene-d8

Concen: 28.980 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014871.D

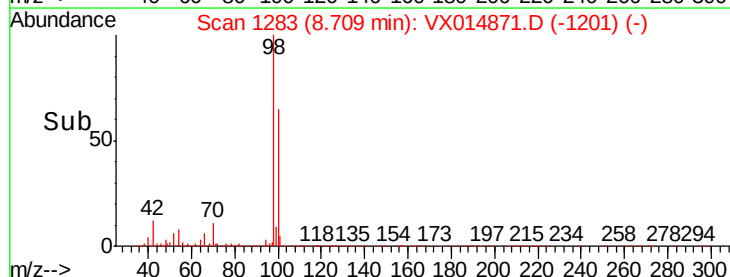
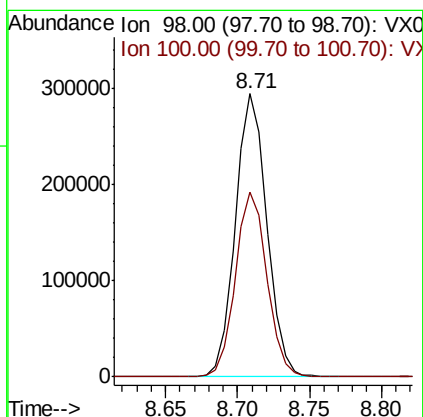
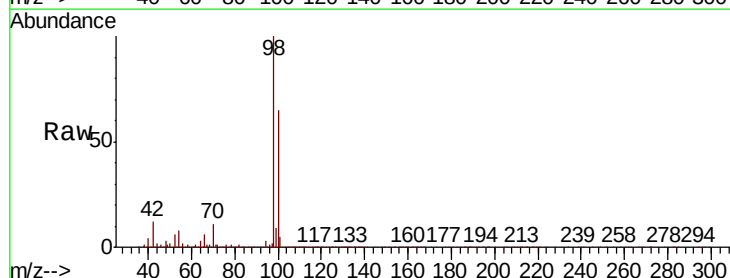
Acq: 07 Feb 2020 15:14

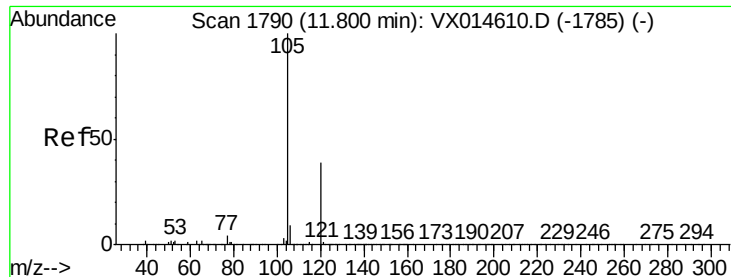
Tgt Ion: 98 Resp: 447687

Ion Ratio Lower Upper

98 100

100 65.1 52.2 78.2

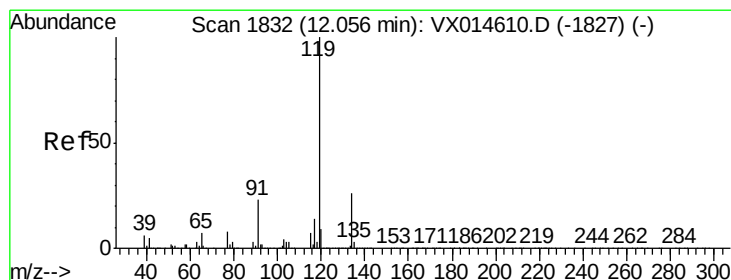
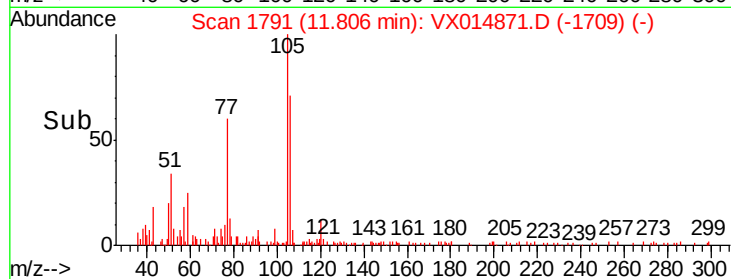
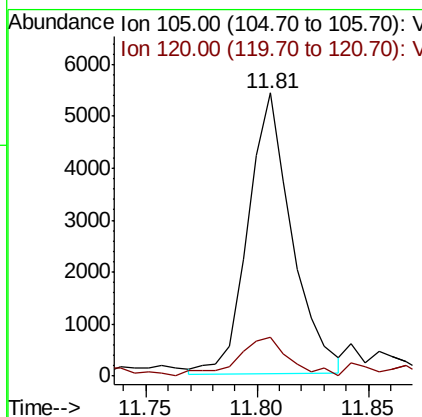
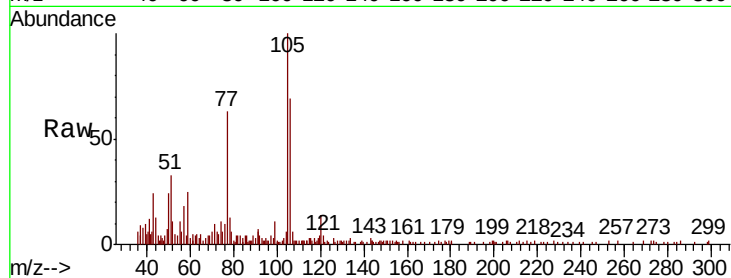




#80
 1,2,4-Trimethylbenzene
 Concen: 0.463 ug/l
 RT: 11.81 min Scan# 1791
 Delta R.T. 0.00 min
 Lab File: VX014871.D
 Acq: 07 Feb 2020 15:14

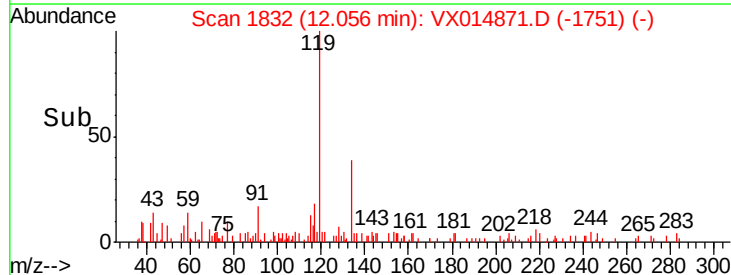
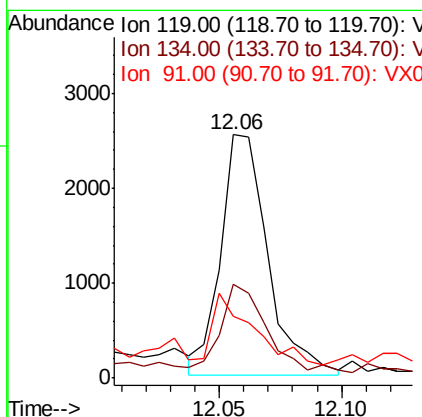
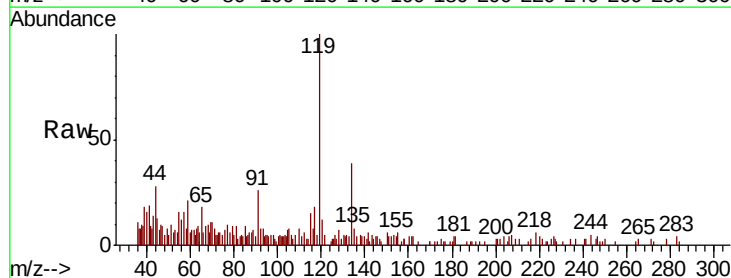
Instrument :
 MSVOA_X
 ClientSampleId :

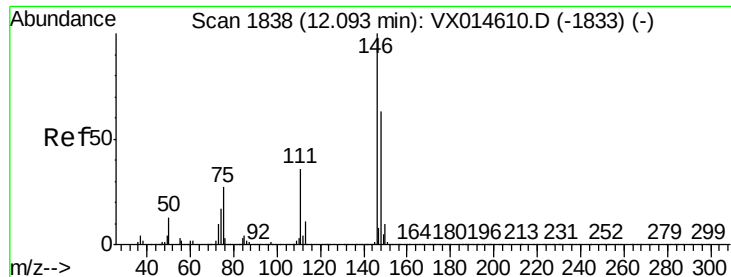
Tot Ion:105 Resp: 7424
 Ion Ratio Lower Upper
 105 100
 120 14.5 0.0 92.0



#82
 p-Isopropyltoluene
 Concen: 0.200 ug/l
 RT: 12.06 min Scan# 1832
 Delta R.T. -0.01 min
 Lab File: VX014871.D
 Acq: 07 Feb 2020 15:14

Tgt Ion:119 Resp: 3408
 Ion Ratio Lower Upper
 119 100
 134 32.3 0.0 53.8
 91 26.4 0.0 45.0

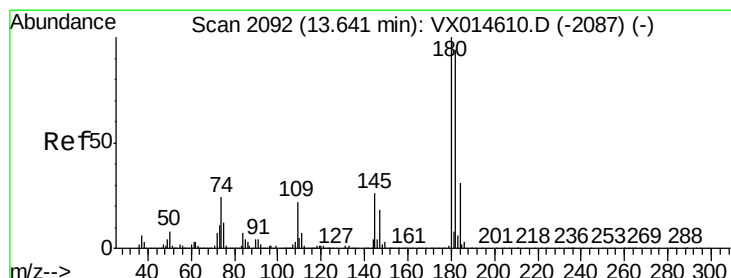
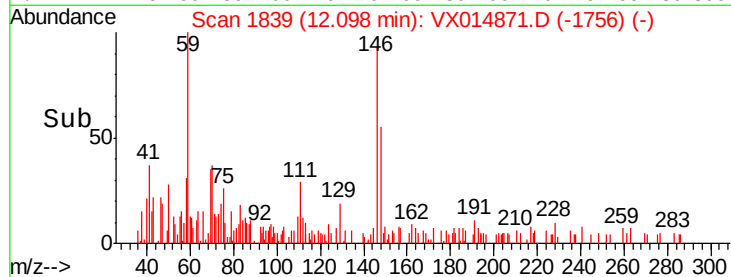
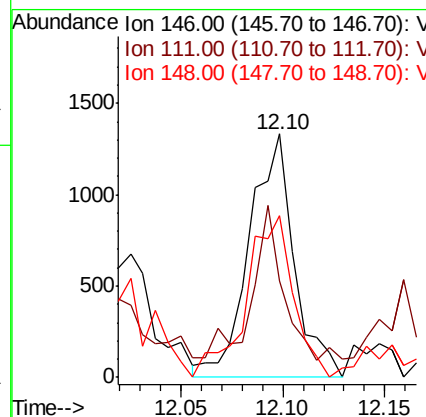
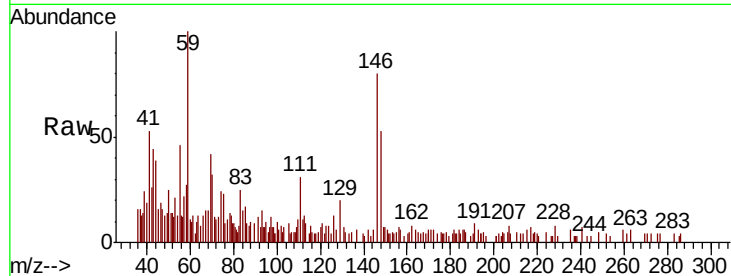




#84
 1,4-Dichlorobenzene
 Concen: 0.229 ug/l
 RT: 12.10 min Scan# 1839
 Delta R.T. 0.01 min
 Lab File: VX014871.D
 Acq: 07 Feb 2020 15:14

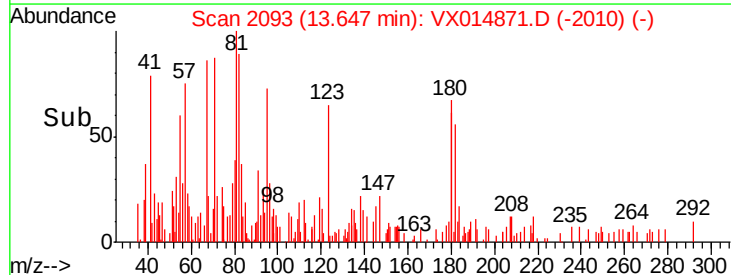
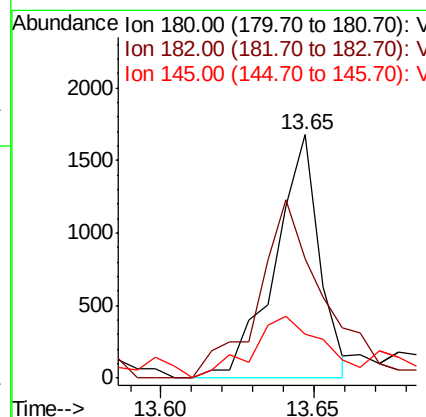
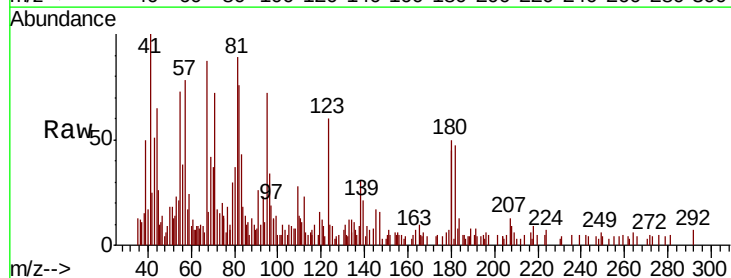
Instrument :
 MSVOA_X
 ClientSampled :

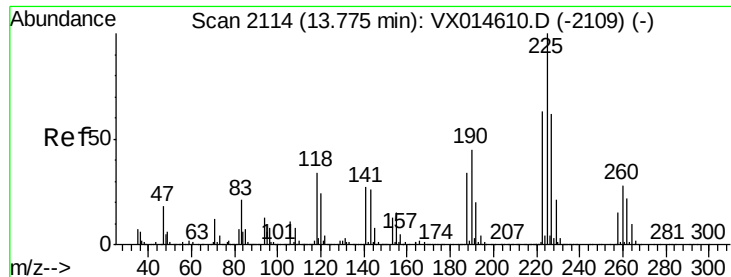
Tot Ion	Ratio	Lower	Upper
146	100		
111	45.0	18.4	55.4
148	69.9	32.0	96.0



#89
 1,2,4-Trichlorobenzene
 Concen: 0.287 ug/l
 RT: 13.65 min Scan# 2093
 Delta R.T. 0.01 min
 Lab File: VX014871.D
 Acq: 07 Feb 2020 15:14

Tgt Ion	Ratio	Lower	Upper
180	100		
182	85.6	76.4	114.6
145	40.4	21.9	32.9#





#90

Hexachlorobutadiene

Concen: 0.223 ug/l

RT: 13.79 min Scan# 2116

Delta R.T. 0.01 min

Lab File: VX014871.D

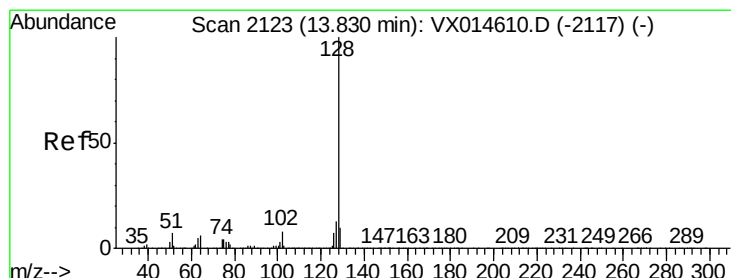
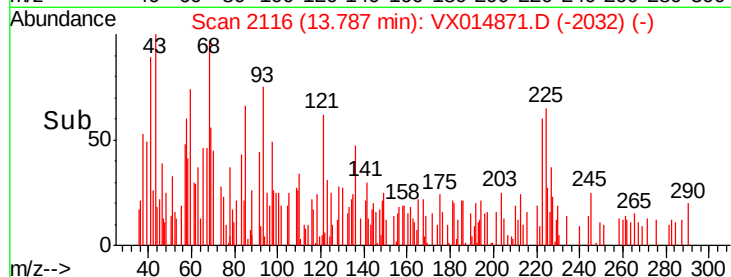
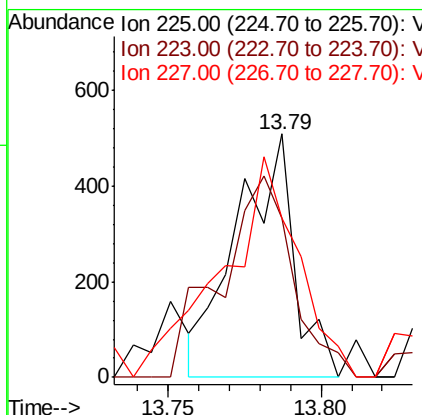
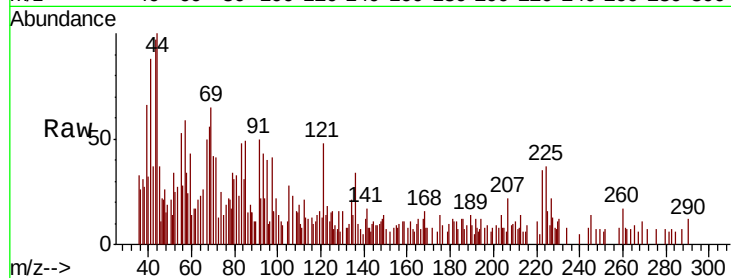
Acq: 07 Feb 2020 15:14

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion:	225	Resp:	663
Ion	Ratio	Lower	Upper
225	100		
223	74.4	0.0	127.4
227	67.1	0.0	122.8



#91

Naphthalene

Concen: 0.255 ug/l

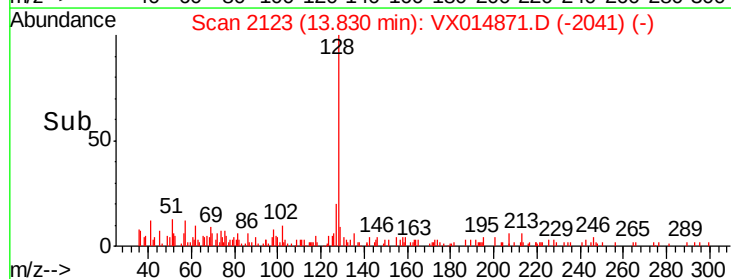
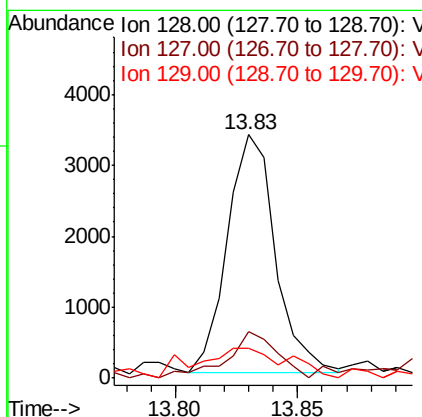
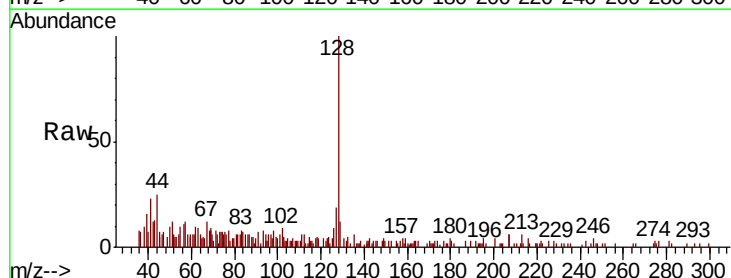
RT: 13.83 min Scan# 2123

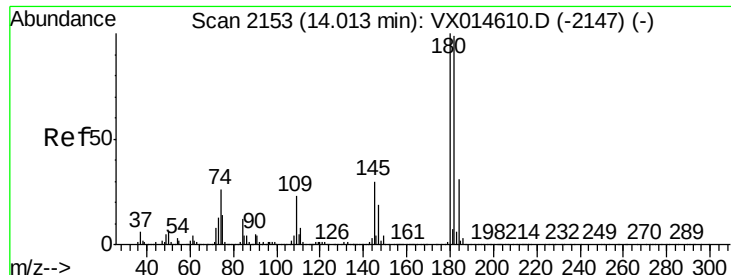
Delta R.T. 0.00 min

Lab File: VX014871.D

Acq: 07 Feb 2020 15:14

Tgt Ion:	128	Resp:	4590
Ion	Ratio	Lower	Upper
128	100		
127	20.0	10.4	15.6#
129	10.4	8.9	13.3





#92

1,2,3-Trichlorobenzene

Concen: 0.246 ug/l

RT: 14.02 min Scan# 2154

Delta R.T. 0.01 min

Lab File: VX014871.D

Acq: 07 Feb 2020 15:14

Instrument :

MSVOA_X

ClientSampleId :

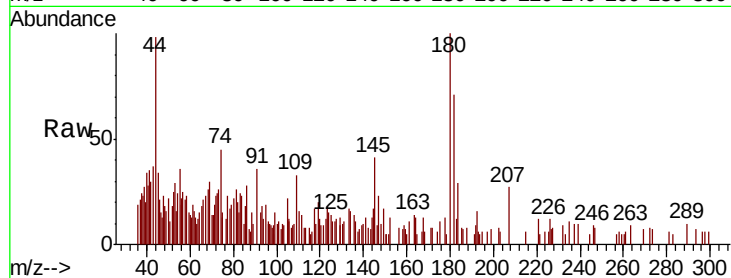
Tot Ion:180 Resp: 1493

Ion Ratio Lower Upper

180 100

182 80.8 0.0 192.8

145 46.2 0.0 60.0



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

