

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX011620\
 Data File : VX014639.D
 Acq On : 16 Jan 2020 15:34
 Operator : JC/SP
 Sample : L1159-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 4001157623

Manual Integrations
 APPROVED

MMDadoda
 1/17/2020 11:23:37 AM

Quant Time: Jan 17 08:54:45 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	72637	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	397285	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	360969	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	156306	30.61	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.03%
60) 4-Bromofluorobenzene	11.13	95	168971	29.25	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.50%
63) Toluene-d8	8.71	98	488757	29.98	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.93%

Target Compounds

					Ovalue
8) Diethyl Ether	2.18	74	8816	2.954 ug/l	93
12) Methyl Acetate	2.76	43	11760m	1.619 ug/l	
15) Acetone	2.42	58	623030	747.708 ug/l	89
23) tert-Butyl Alcohol	3.03	59	11911874	11588.449 ug/l	100
24) Methyl tert-Butyl Ether	3.18	73	43857	3.277 ug/l #	85
30) 2-Butanone	4.65	43	2768312	750.043 ug/l	98
34) Benzene	6.13	78	110808	6.154 ug/l	95
45) 1,4-Dioxane	7.73	88	18605	172.561 ug/l	97
58) 4-Methyl-2-Pentanone	8.64	43	137195	20.183 ug/l	96
59) 2-Hexanone	9.49	43	22070	4.198 ug/l	96
62) Toluene	8.78	91	85762	4.478 ug/l	100
64) Chlorobenzene	10.14	112	19268m	1.612 ug/l	
66) Ethyl Benzene	10.25	91	170246	8.161 ug/l	96
67) m/p-Xylenes	10.36	106	84269	10.547 ug/l	98
68) o-Xylene	10.70	106	50275	6.462 ug/l	100
70) Isopropylbenzene	11.01	105	27581	1.353 ug/l	99
74) n-propylbenzene	11.35	91	9069	0.389 ug/l	93
76) 1,3,5-Trimethylbenzene	11.50	105	15808	0.931 ug/l	98
80) 1,2,4-Trimethylbenzene	11.80	105	82850	4.891 ug/l	99
82) p-Isopropyltoluene	12.06	119	44391	2.473 ug/l	96
84) 1,4-Dichlorobenzene	12.09	146	64926	6.941 ug/l	98
87) 1,2-Dichlorobenzene	12.39	146	3641	0.382 ug/l	97
91) Naphthalene	13.83	128	365229	19.256 ug/l	99

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

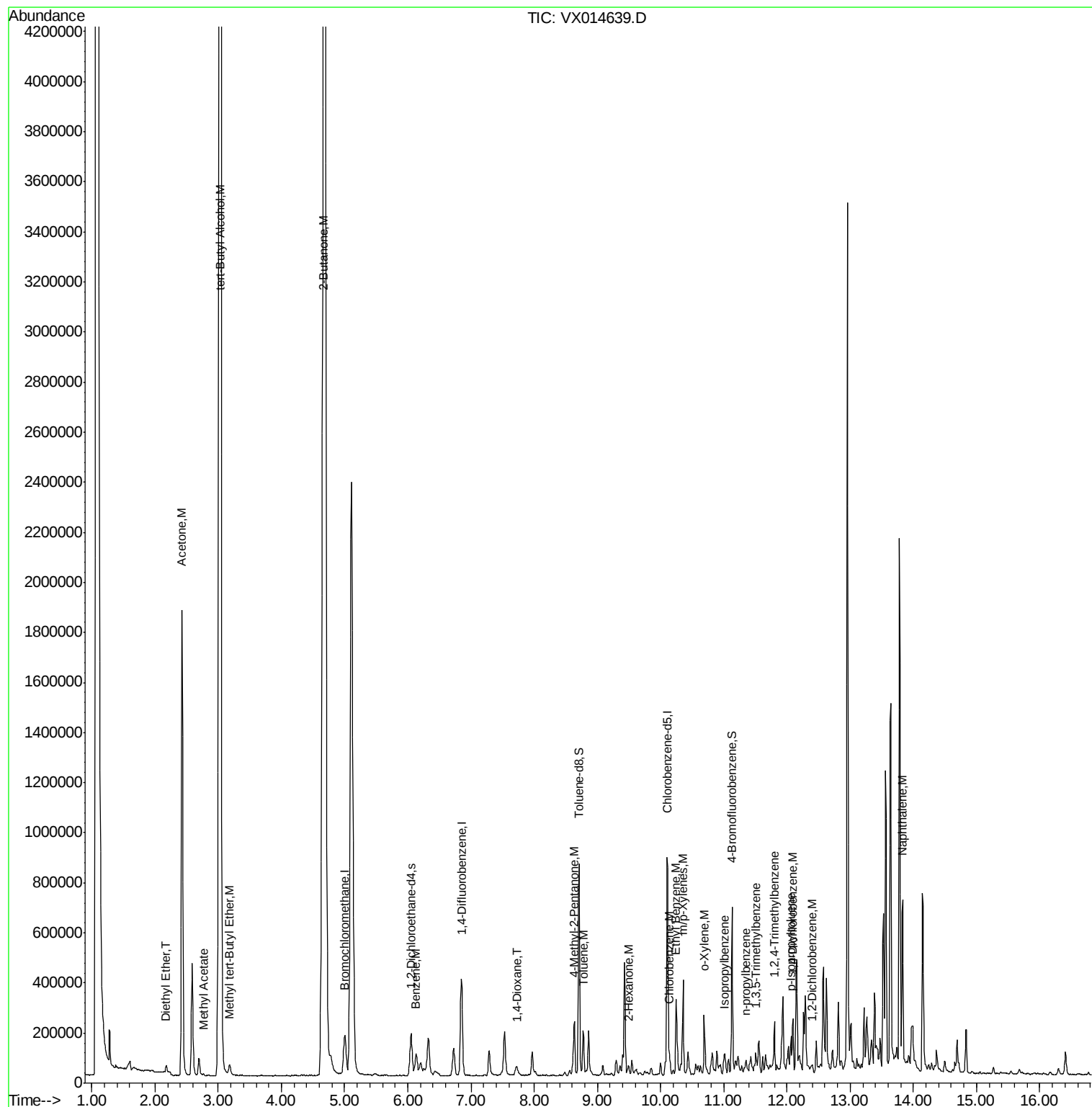
Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX011620\
Data File : VX014639.D
Acq On : 16 Jan 2020 15:34
Operator : JC/SP
Sample : L1159-01
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 13 Sample Multiplier: 1

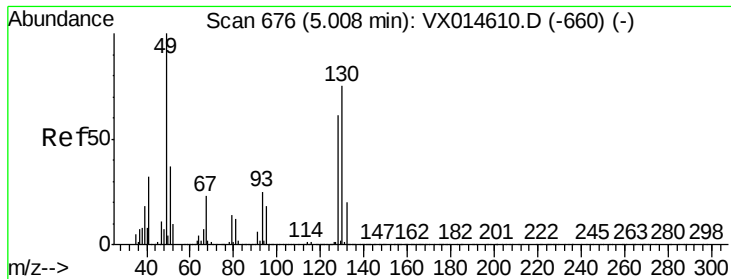
Instrument :
MSVOA_X
ClientSampleId :
4001157623

Manual Integrations
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Quant Time: Jan 17 08:54:45 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





#1

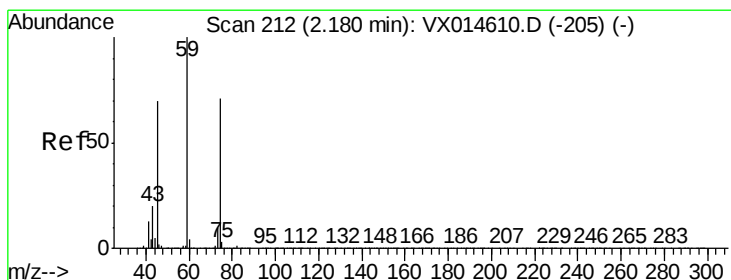
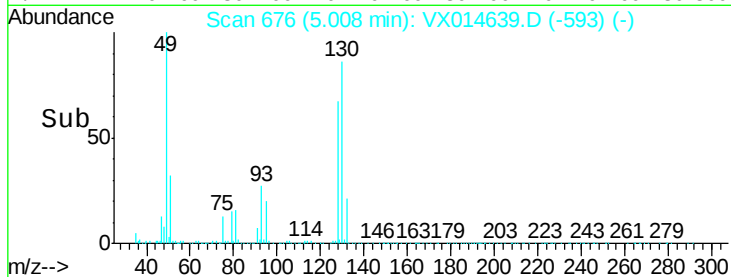
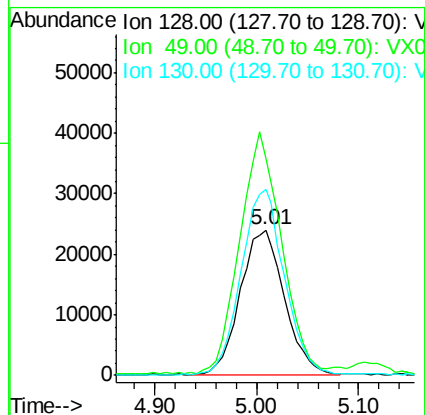
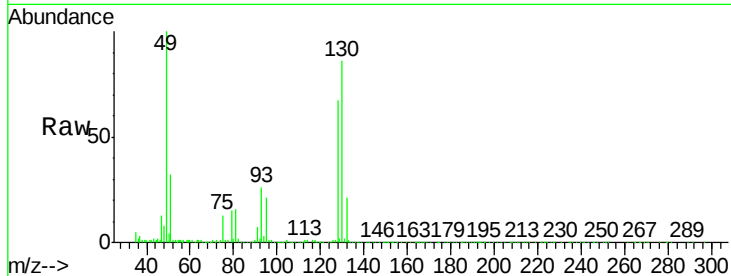
Bromochloromethane
 Concen: 30.000 ug/l
 RT: 5.01 min Scan# 676
 Delta R.T. 0.01 min
 Lab File: VX014639.D
 Acq: 16 Jan 2020 15:34

Instrument :
 MSVOA_X
 ClientSampleId :
 4001157623

Tot Ion	Ratio	Lower	Upper
128	100		
49	154.1	0.0	405.0
130	124.9	0.0	321.5

Manual Integrations
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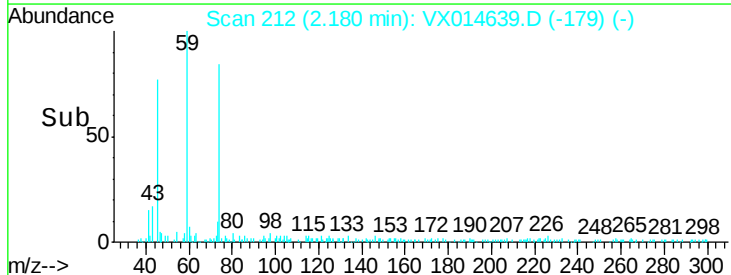
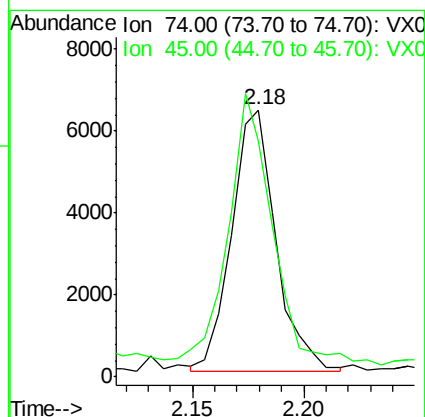
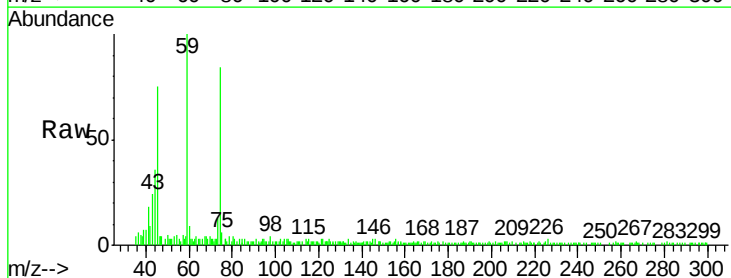
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 1/17/2020 11:23:37 AM

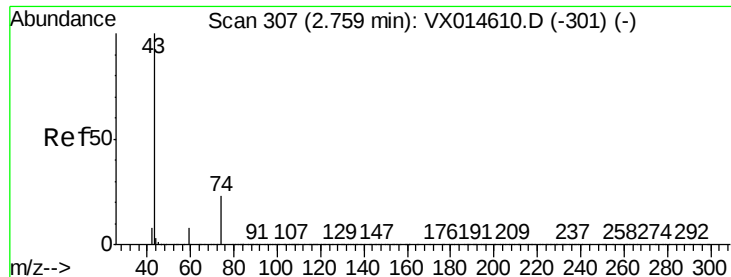


#8

Diethyl Ether
 Concen: 2.954 ug/l
 RT: 2.18 min Scan# 212
 Delta R.T. 0.00 min
 Lab File: VX014639.D
 Acq: 16 Jan 2020 15:34

Tgt Ion	Ratio	Lower	Upper
74	100		
45	95.9	20.6	185.0





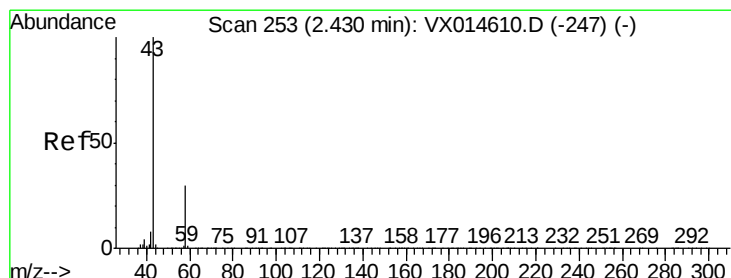
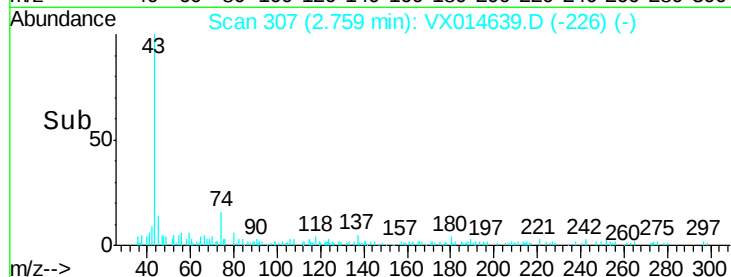
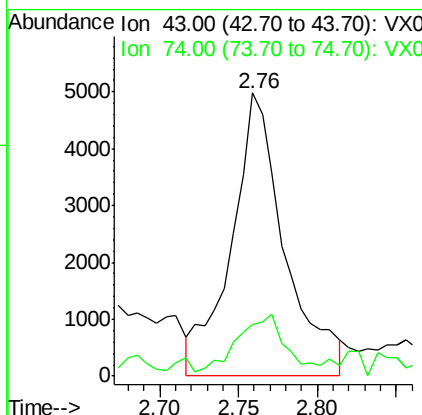
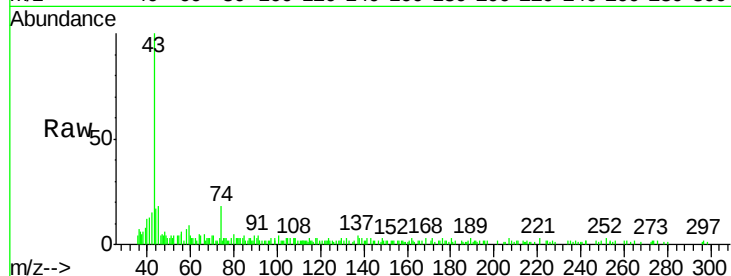
#12
Methvl Acetate
Concen: 1.619 ug/l m
RT: 2.76 min Scan# 307
Delta R.T. -0.01 min
Lab File: VX014639.D
Acq: 16 Jan 2020 15:34

Instrument :
MSVOA_X
ClientSampled :
4001157623

Tot Ion: 43 Resp: 11760
Ion Ratio Lower Upper
43 100
74 18.4 18.5 27.7#

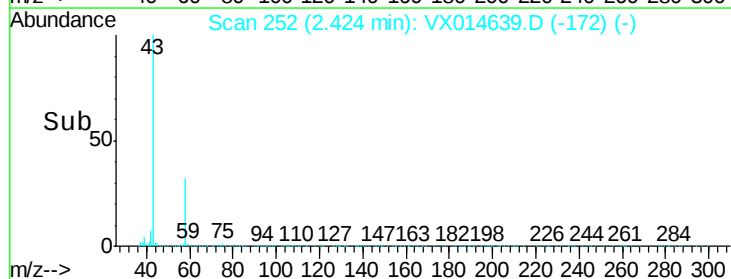
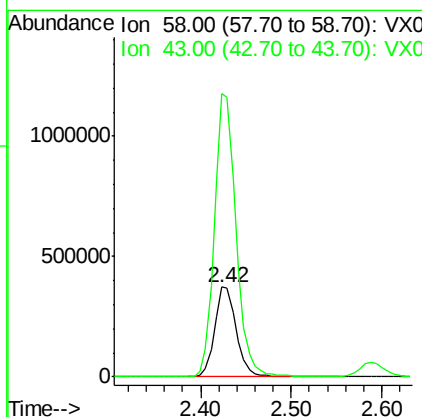
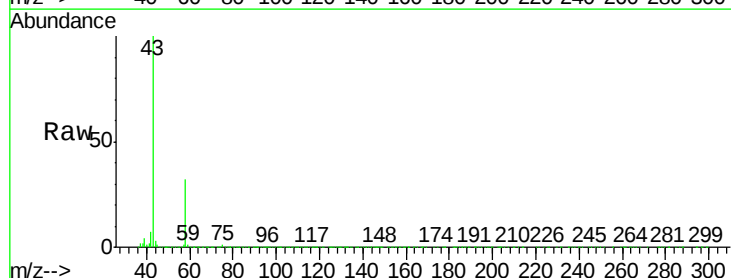
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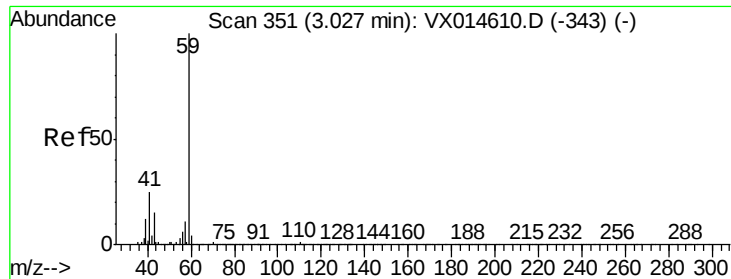
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#15
Acetone
Concen: 747.708 ug/l
RT: 2.42 min Scan# 252
Delta R.T. -0.01 min
Lab File: VX014639.D
Acq: 16 Jan 2020 15:34

Tgt Ion: 58 Resp: 623030
Ion Ratio Lower Upper
58 100
43 316.1 236.3 354.5





#23

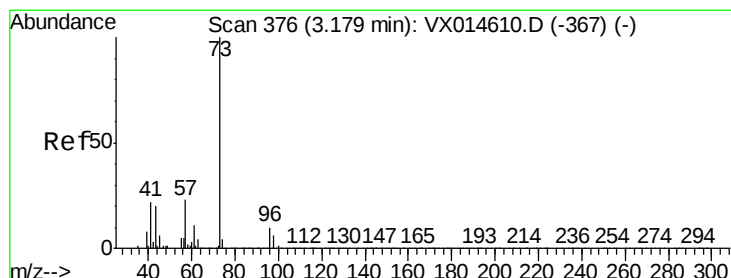
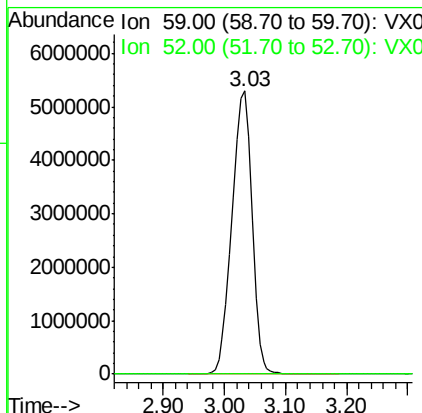
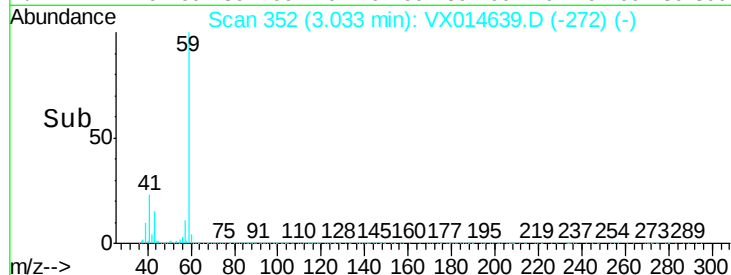
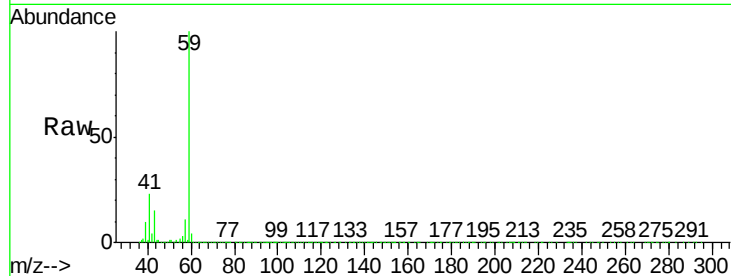
tert-Butyl Alcohol
 Concen: 11588.449 ug/l
 RT: 3.03 min Scan# 352
 Delta R.T. -0.01 min
 Lab File: VX014639.D
 Acq: 16 Jan 2020 15:34

Instrument :
 MSVOA_X
 ClientSampleId :
 4001157623

Tot Ion: 59 Resp: 11911874
 Ion Ratio Lower Upper
 59 100
 52 0.2 0.2 0.2

Manual Integrations
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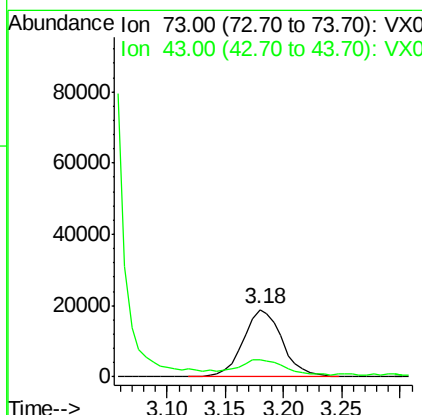
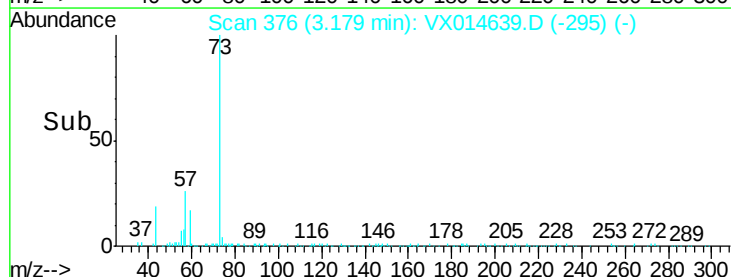
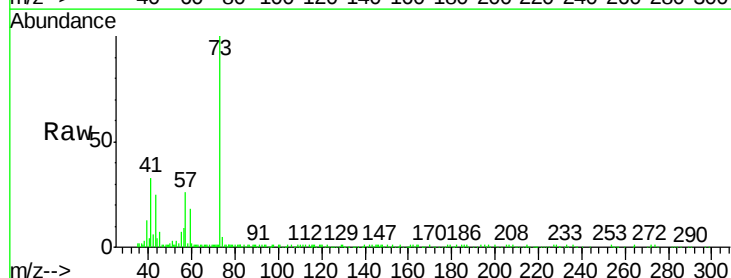
MMDadoda
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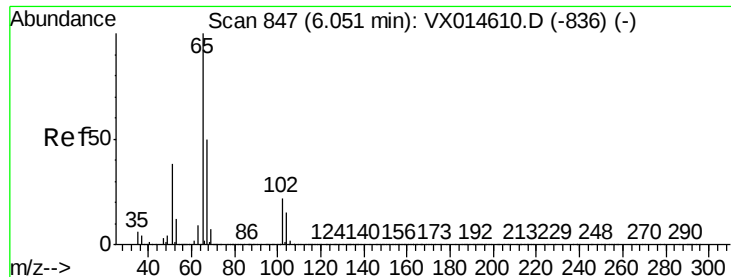


#24

Methyl tert-Butyl Ether
 Concen: 3.277 ug/l
 RT: 3.18 min Scan# 376
 Delta R.T. -0.01 min
 Lab File: VX014639.D
 Acq: 16 Jan 2020 15:34

Tgt Ion: 73 Resp: 43857
 Ion Ratio Lower Upper
 73 100
 43 28.0 16.6 25.0#





#27

1,2-Dichloroethane-d4

Concen: 30.615 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX014639.D

Acq: 16 Jan 2020 15:34

Instrument :

MSVOA_X

ClientSampleId :

4001157623

Tot Ion: 65 Resp: 156306

Ion Ratio Lower Upper

65 100

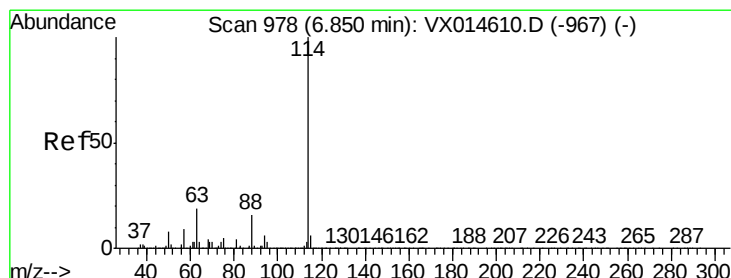
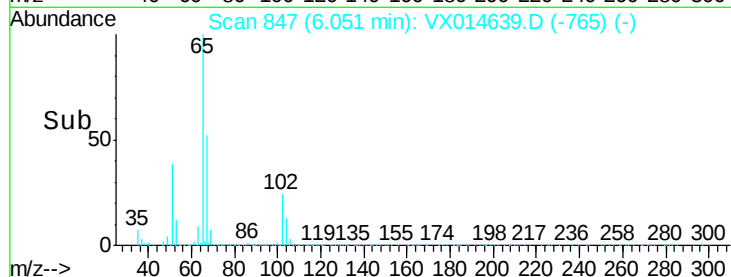
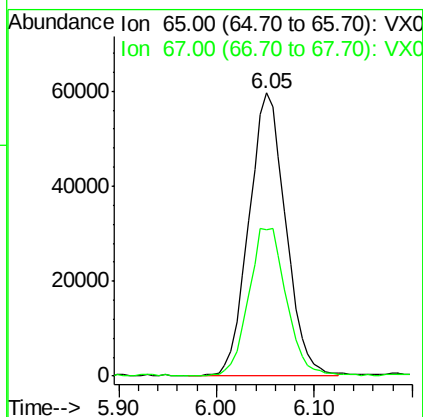
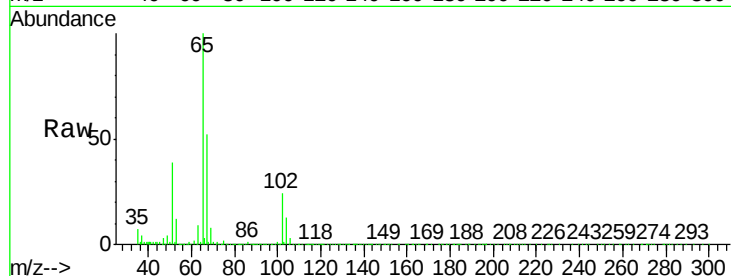
67 53.2 43.1 64.7

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#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX014639.D

Acq: 16 Jan 2020 15:34

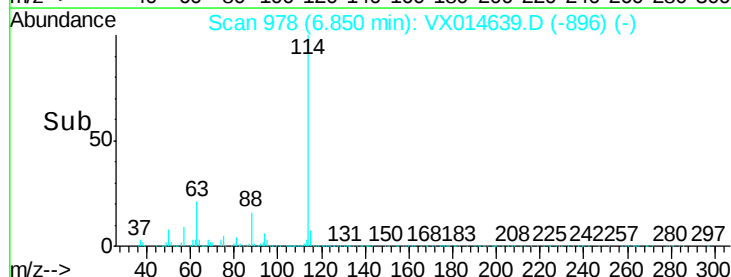
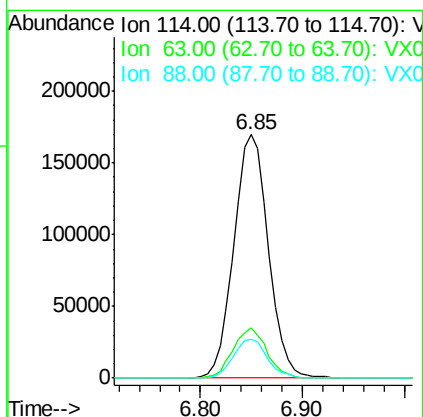
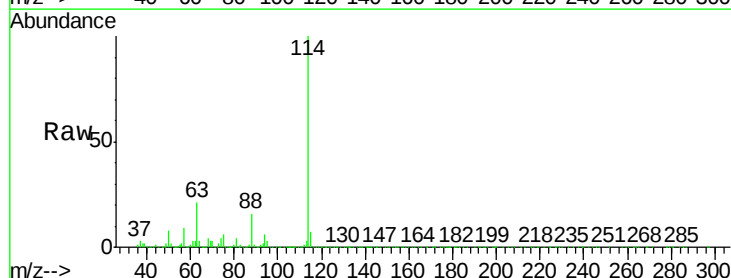
Tgt Ion: 114 Resp: 397285

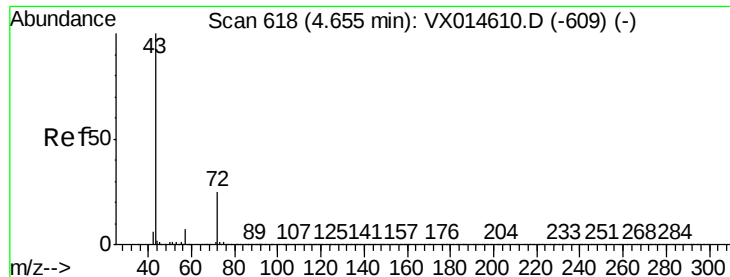
Ion Ratio Lower Upper

114 100

63 20.1 16.1 24.1

88 15.7 12.5 18.7





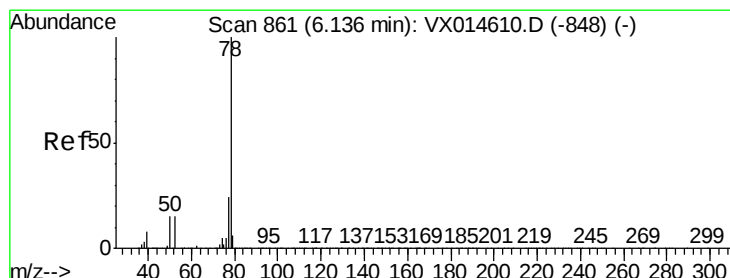
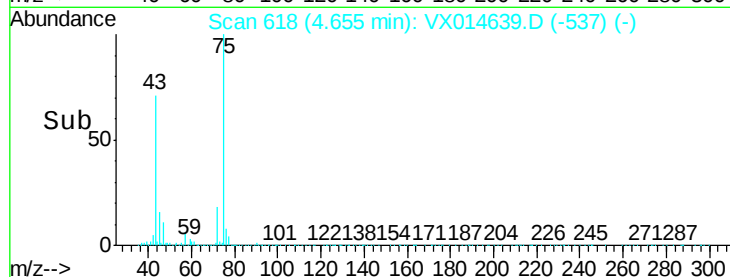
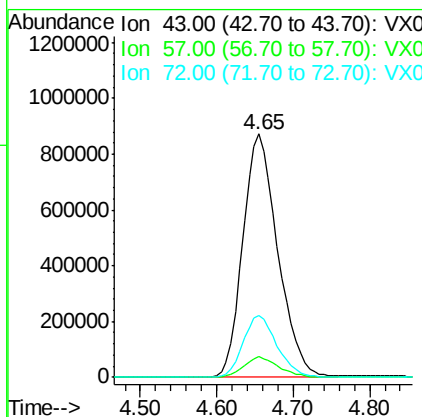
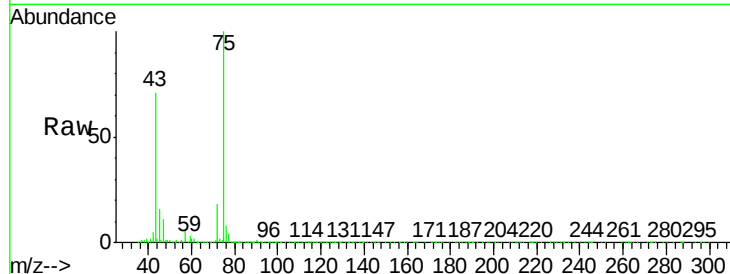
#30
2-Butanone
Concen: 750.043 ug/l
RT: 4.65 min Scan# 618
Delta R.T. -0.01 min
Lab File: VX014639.D
Acq: 16 Jan 2020 15:34

Instrument :
MSVOA_X
ClientSampleId :
4001157623

Tot Ion: 43 Resp: 2768312
Ion Ratio Lower Upper
43 100
57 8.4 6.2 9.2
72 24.7 20.3 30.5

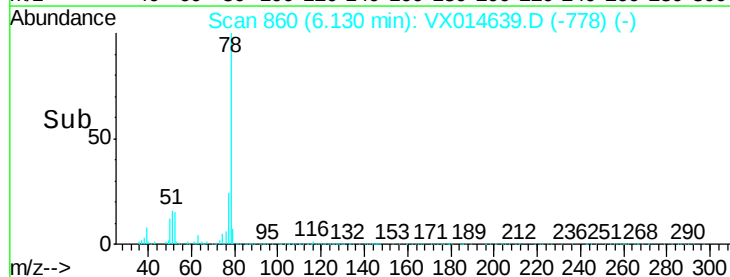
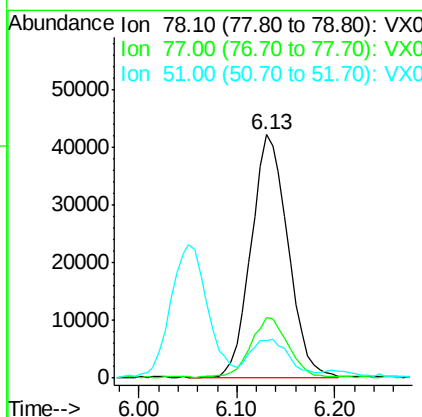
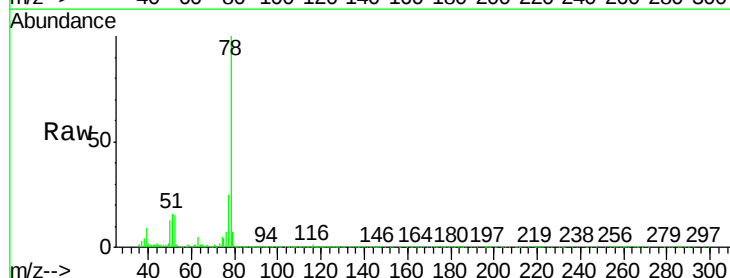
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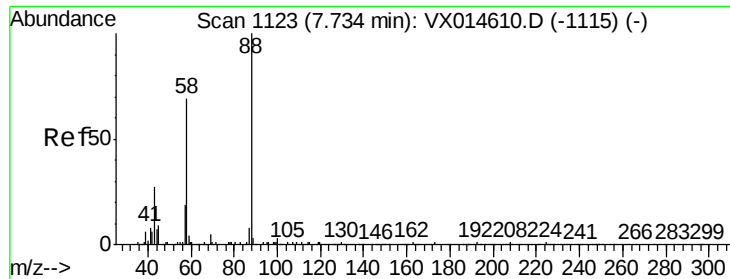
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#34
Benzene
Concen: 6.154 ug/l
RT: 6.13 min Scan# 860
Delta R.T. 0.00 min
Lab File: VX014639.D
Acq: 16 Jan 2020 15:34

Tgt Ion: 78 Resp: 110808
Ion Ratio Lower Upper
78 100
77 24.2 18.2 27.2
51 12.7 12.4 18.6





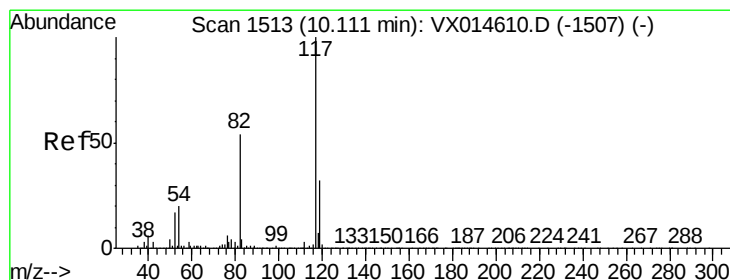
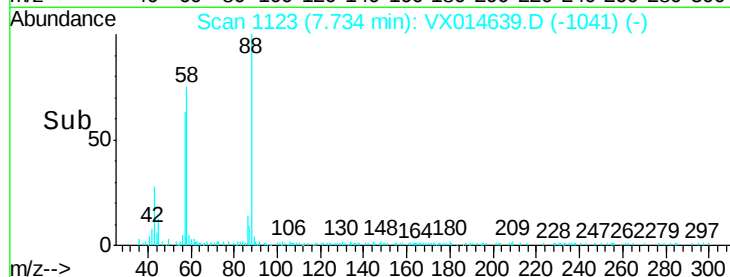
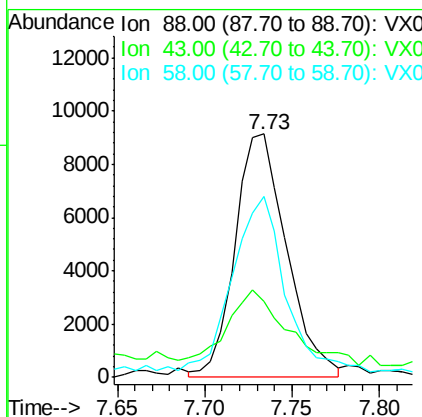
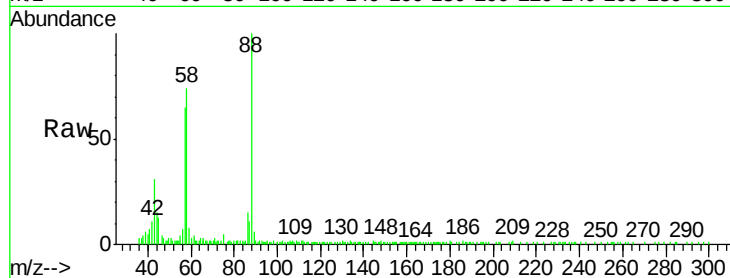
#45
1,4-Dioxane
Concen: 172.561 ug/l
RT: 7.73 min Scan# 1123
Delta R.T. 0.00 min
Lab File: VX014639.D
Acq: 16 Jan 2020 15:34

Instrument :
MSVOA_X
ClientSampleId :
4001157623

Tot Ion:	88	Resp:	18605
Ion Ratio	Lower	Upper	
88	100		
43	29.8	25.4	38.2
58	72.8	56.5	84.7

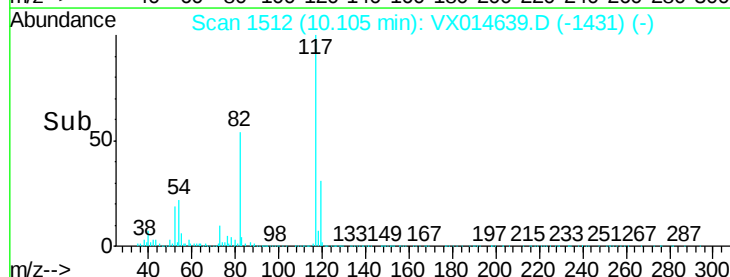
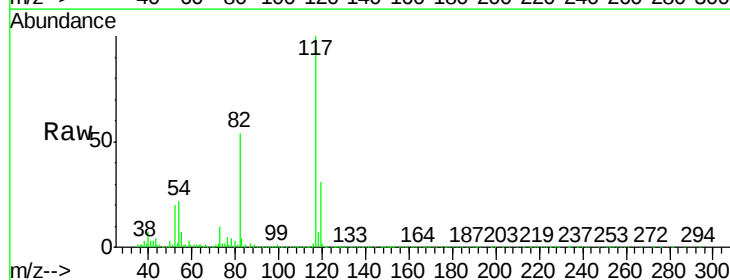
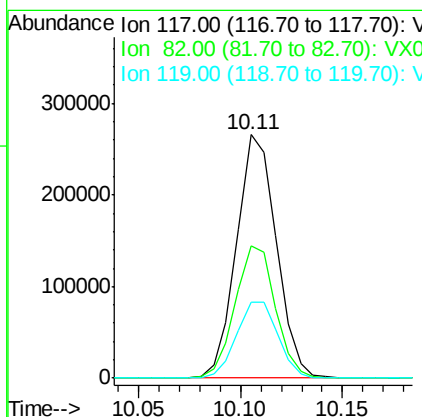
Manual Integrations
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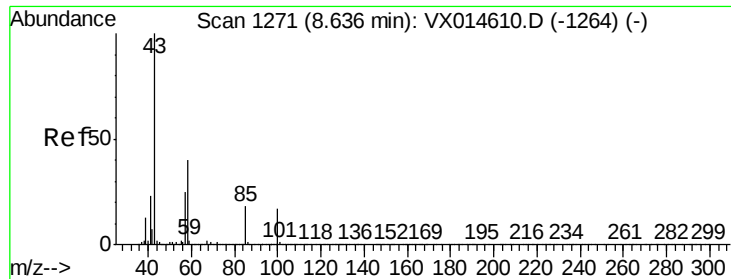
MMDadoda
1/17/2020 11:23:37 AM



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.11 min Scan# 1512
Delta R.T. -0.01 min
Lab File: VX014639.D
Acq: 16 Jan 2020 15:34

Tgt Ion:	117	Resp:	360969
Ion Ratio	Lower	Upper	
117	100		
82	54.9	43.8	65.6
119	32.5	25.8	38.6





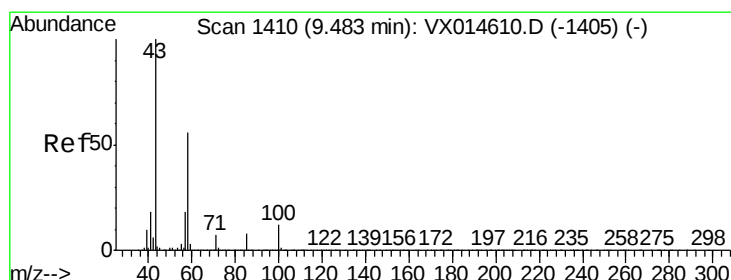
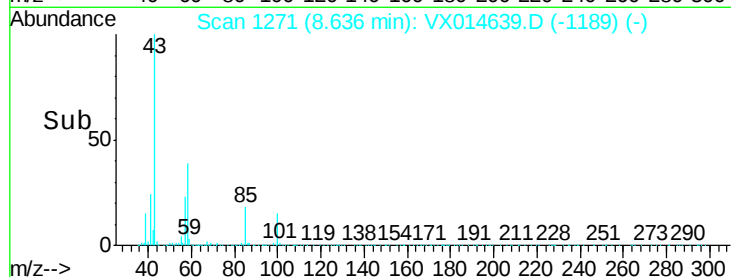
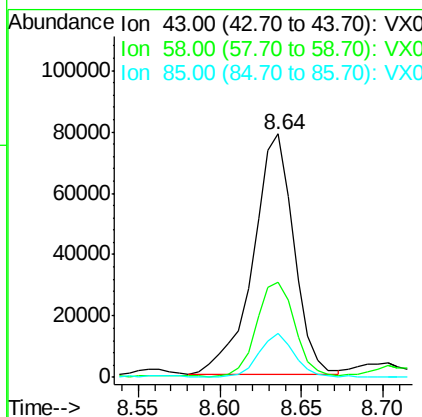
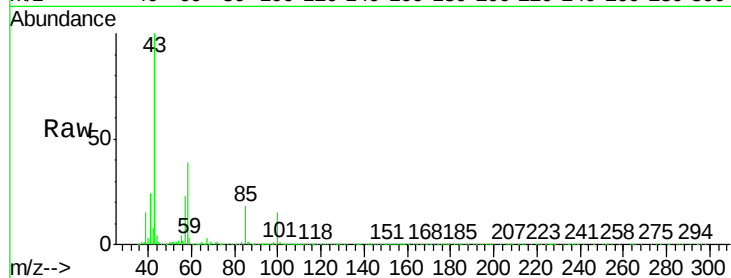
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4-Methyl-2-Pentanone
Concen: 20.183 ug/l
RT: 8.64 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VX014639.D
Acq: 16 Jan 2020 15:34

Instrument :
MSVOA_X
ClientSampleId :
4001157623

Tot Ion	Ratio	Lower	Upper
43	100		
58	36.6	31.2	46.8
85	15.3	14.2	21.2

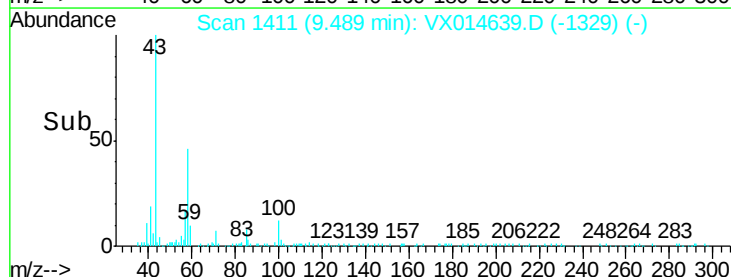
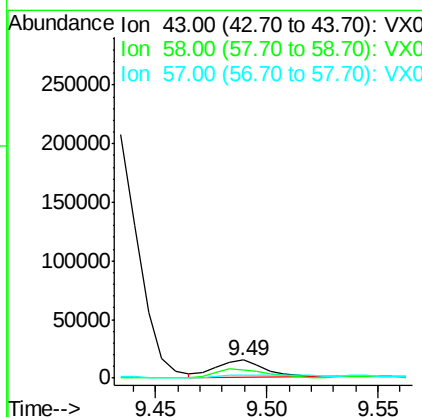
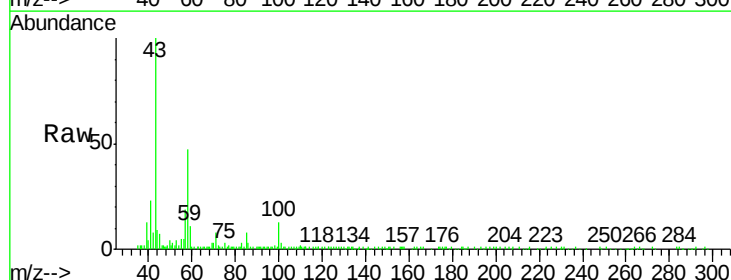
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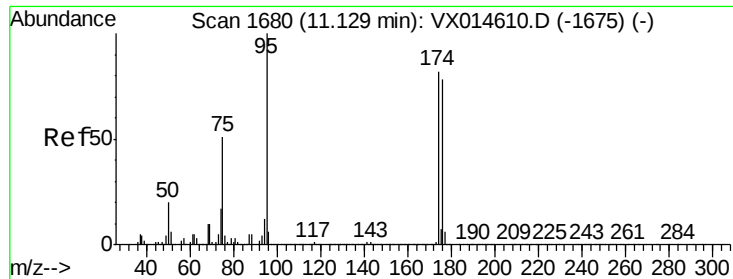
MMDadoda
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#59
2-Hexanone
Concen: 4.198 ug/l
RT: 9.49 min Scan# 1411
Delta R.T. 0.00 min
Lab File: VX014639.D
Acq: 16 Jan 2020 15:34

Tgt Ion	Ratio	Lower	Upper
43	100		
58	52.4	43.8	65.6
57	16.3	15.4	23.0





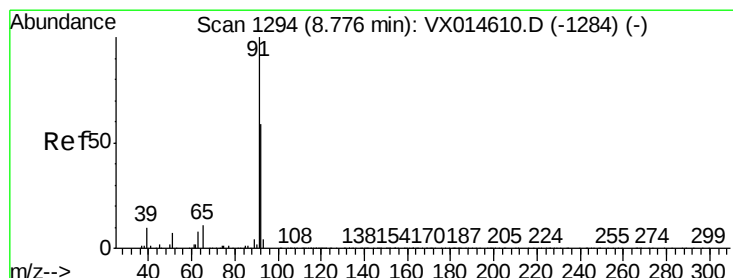
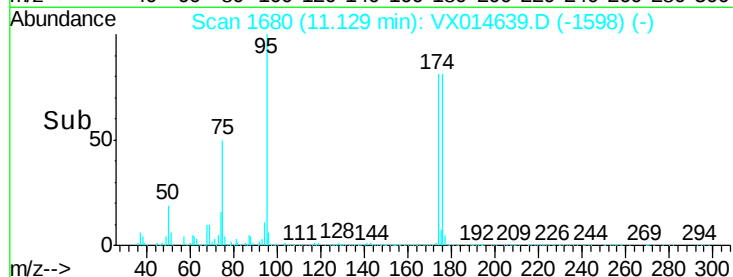
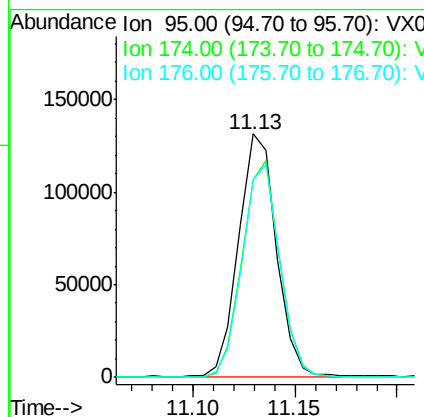
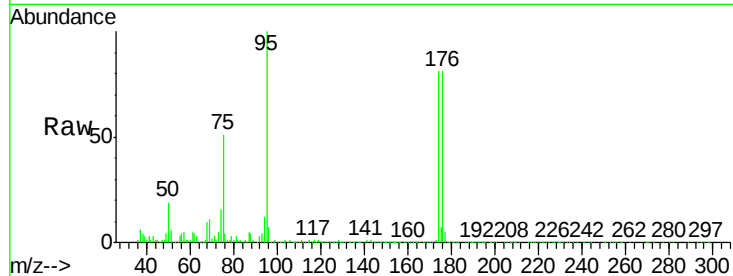
#60
4-Bromofluorobenzene
Concen: 29.253 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VX014639.D
Acq: 16 Jan 2020 15:34

Instrument :
MSVOA_X
ClientSampleId :
4001157623

Tot Ion	Ratio	Lower	Upper
95	100		
174	88.5	70.2	105.2
176	86.7	68.3	102.5

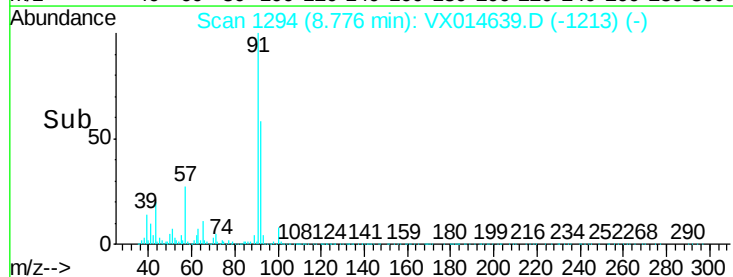
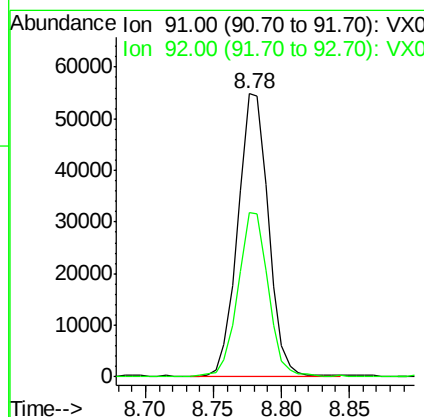
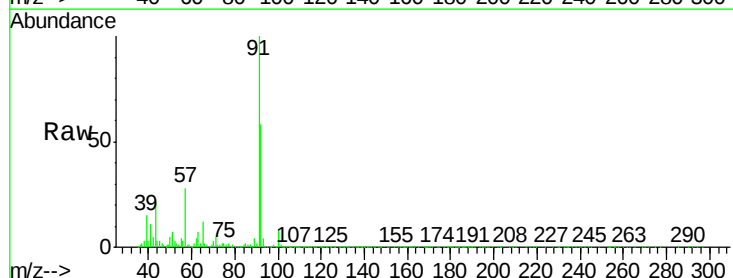
Manual Integrations
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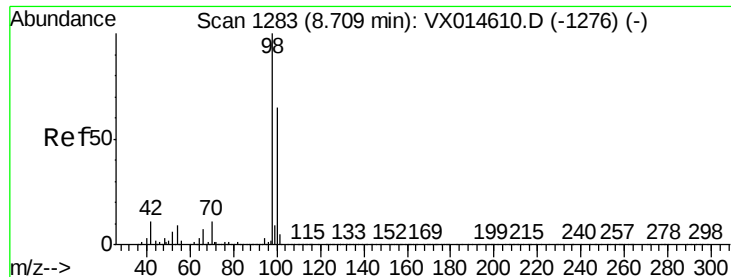
MMDadoda
1/17/2020 11:23:37 AM



#62
Toluene
Concen: 4.478 ug/l
RT: 8.78 min Scan# 1294
Delta R.T. -0.01 min
Lab File: VX014639.D
Acq: 16 Jan 2020 15:34

Tgt Ion	Ratio	Lower	Upper
91	100		
92	57.7	46.4	69.6





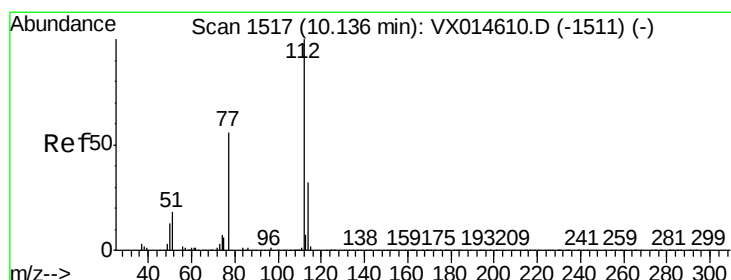
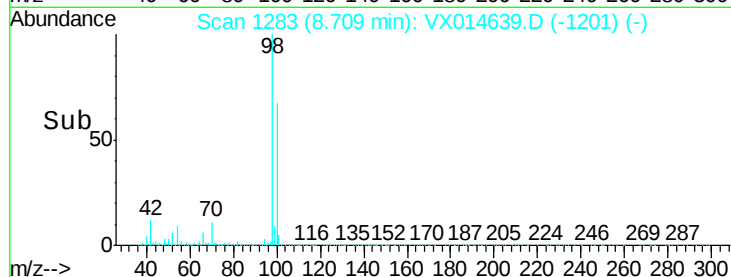
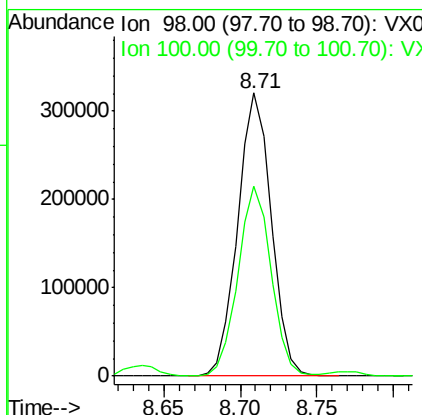
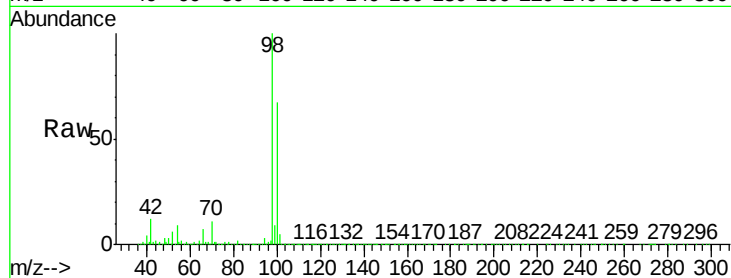
#63
Toluene-d8
Concen: 29.976 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX014639.D
Acq: 16 Jan 2020 15:34

Instrument :
MSVOA_X
ClientSampleId :
4001157623

Tot Ion: 98 Resp: 488757
Ion Ratio Lower Upper
98 100
100 66.1 52.2 78.2

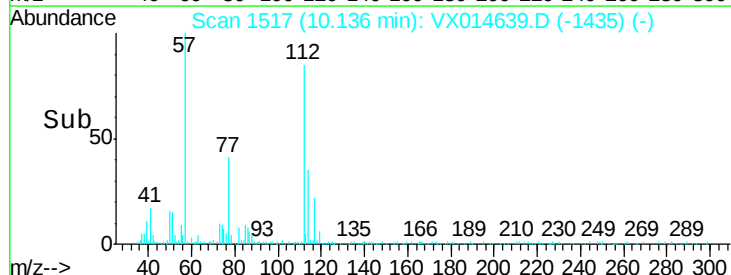
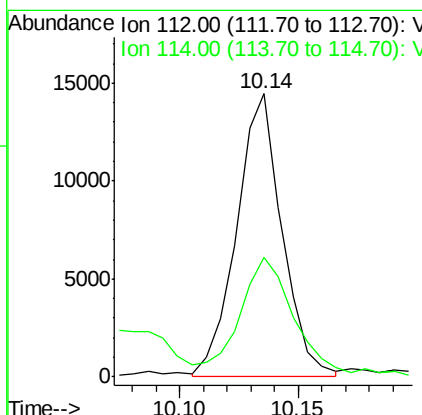
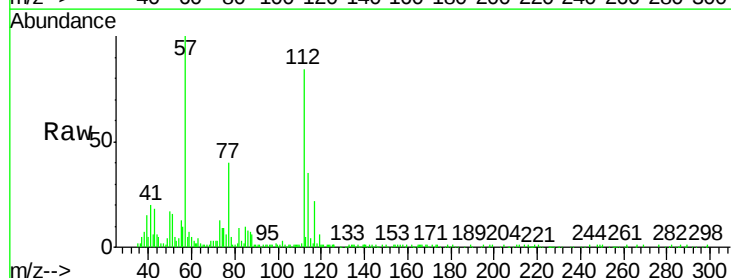
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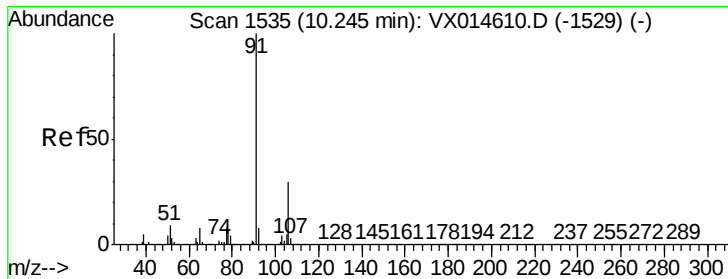
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#64
Chlorobenzene
Concen: 1.612 ug/l m
RT: 10.14 min Scan# 1517
Delta R.T. 0.00 min
Lab File: VX014639.D
Acq: 16 Jan 2020 15:34

Tgt Ion: 112 Resp: 19268
Ion Ratio Lower Upper
112 100
114 42.1 24.4 36.6#





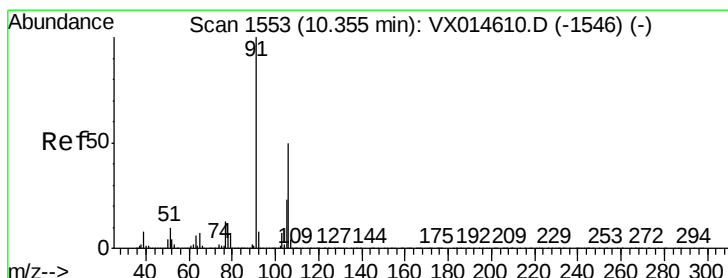
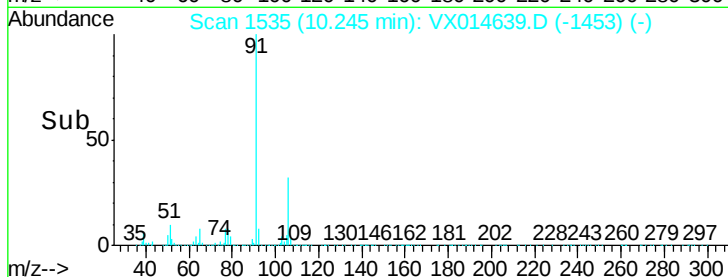
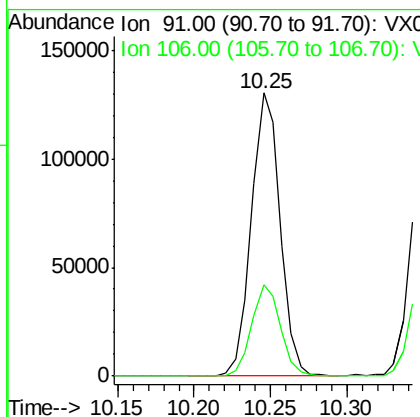
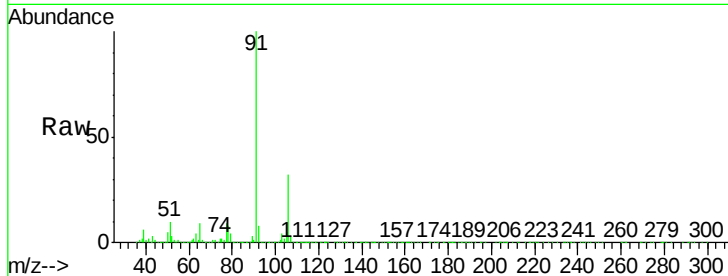
#66
Ethyl Benzene
Concen: 8.161 ug/l
RT: 10.25 min Scan# 1535
Delta R.T. 0.00 min
Lab File: VX014639.D
Acq: 16 Jan 2020 15:34

Instrument :
MSVOA_X
ClientSampled :
4001157623

Tot Ion: 91 Resp: 170246
Ion Ratio Lower Upper
91 100
106 32.3 24.2 36.2

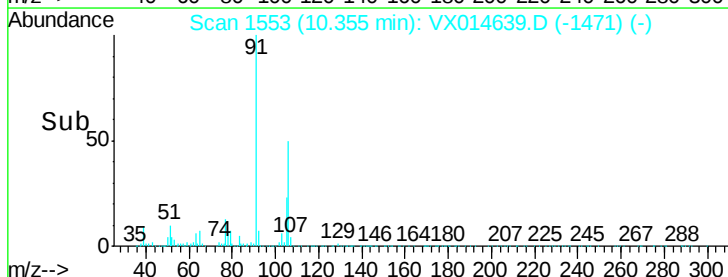
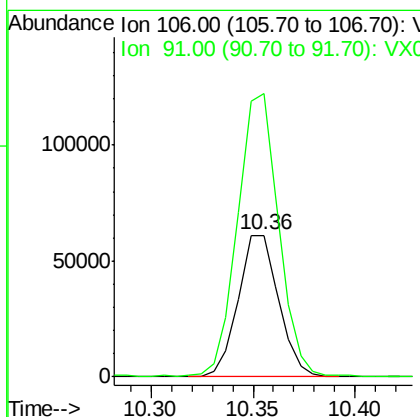
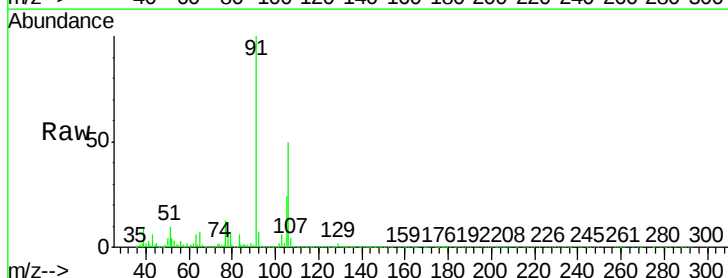
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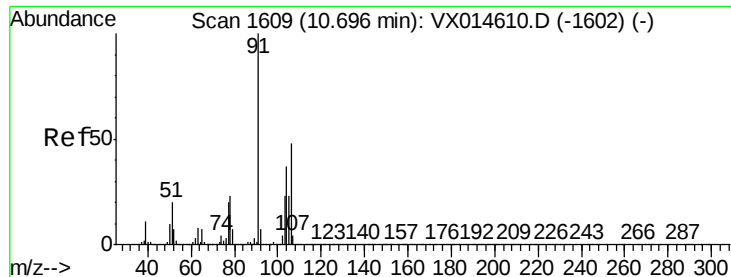
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#67
m/p-Xylenes
Concen: 10.547 ug/l
RT: 10.36 min Scan# 1553
Delta R.T. 0.00 min
Lab File: VX014639.D
Acq: 16 Jan 2020 15:34

Tgt Ion: 106 Resp: 84269
Ion Ratio Lower Upper
106 100
91 202.3 159.3 238.9





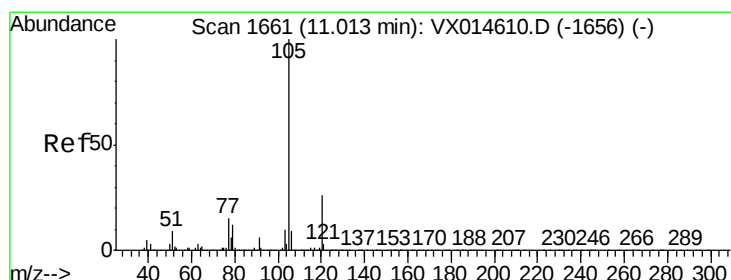
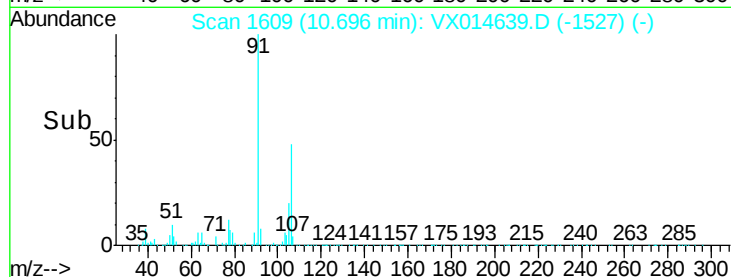
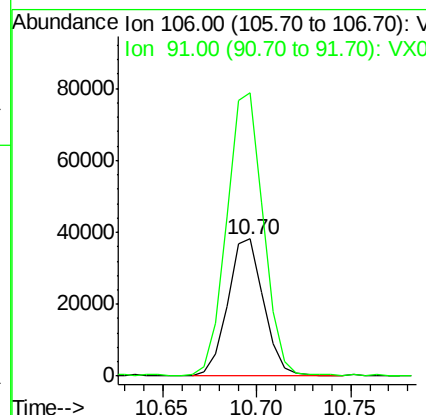
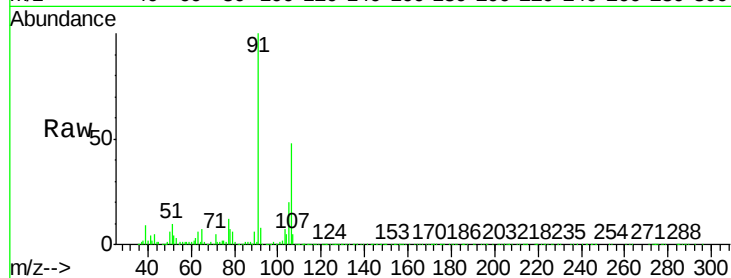
#68
o-Xylene
Concen: 6.462 ug/l
RT: 10.70 min Scan# 1609
Delta R.T. 0.00 min
Lab File: VX014639.D
Acq: 16 Jan 2020 15:34

Instrument :
MSVOA_X
ClientSampled :
4001157623

Tot Ion:106 Resp: 50275
Ion Ratio Lower Upper
106 100
91 209.0 104.8 314.6

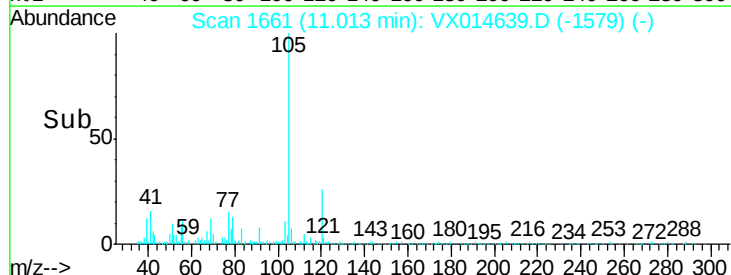
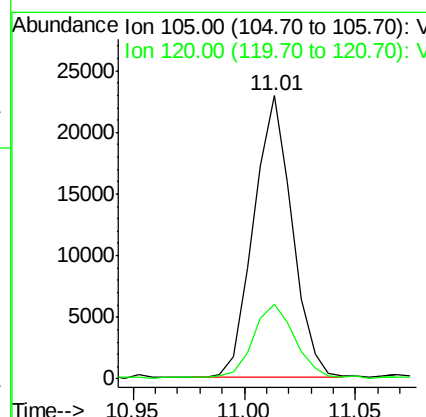
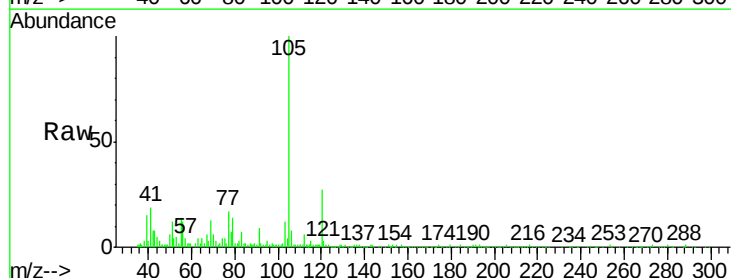
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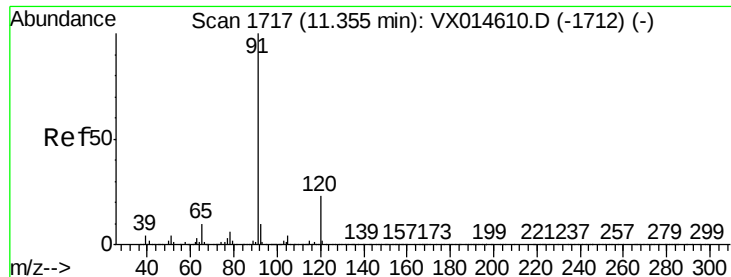
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#70
Isopropylbenzene
Concen: 1.353 ug/l
RT: 11.01 min Scan# 1661
Delta R.T. 0.00 min
Lab File: VX014639.D
Acq: 16 Jan 2020 15:34

Tgt Ion:105 Resp: 27581
Ion Ratio Lower Upper
105 100
120 27.9 19.1 35.5





#74

n-propylbenzene

Concen: 0.389 ug/l

RT: 11.35 min Scan# 1717

Delta R.T. 0.00 min

Lab File: VX014639.D

Acq: 16 Jan 2020 15:34

Instrument :

MSVOA_X

ClientSampleId :

4001157623

Tot Ion: 91 Resp: 9069

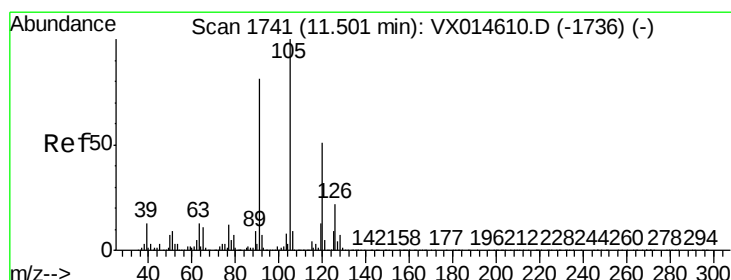
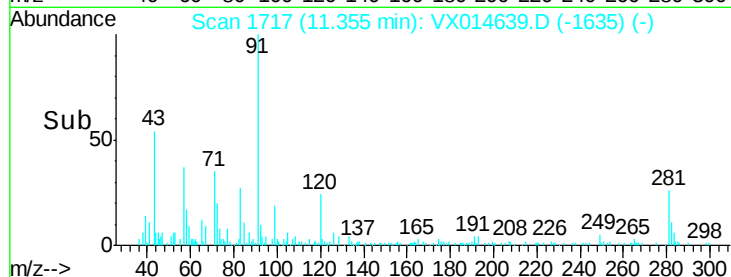
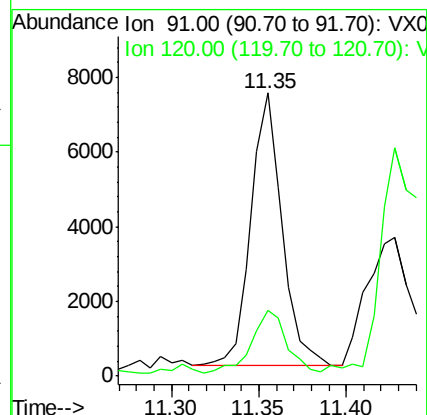
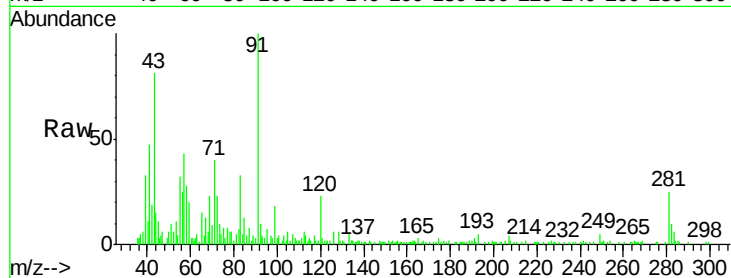
Ion Ratio Lower Upper

91 100

120 25.8 0.0 44.8

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#76

1,3,5-Trimethylbenzene

Concen: 0.931 ug/l

RT: 11.50 min Scan# 1741

Delta R.T. 0.00 min

Lab File: VX014639.D

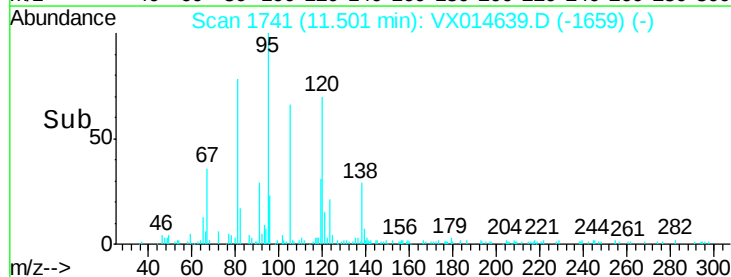
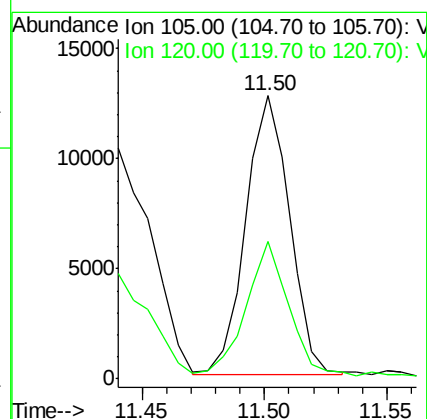
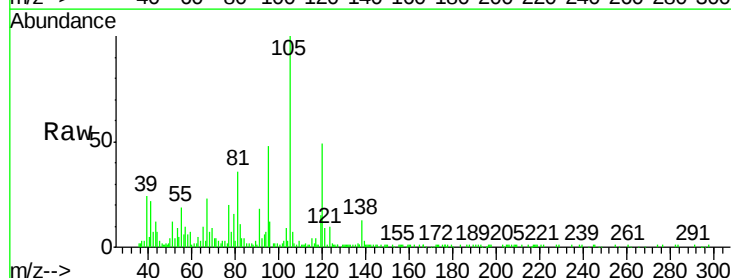
Acq: 16 Jan 2020 15:34

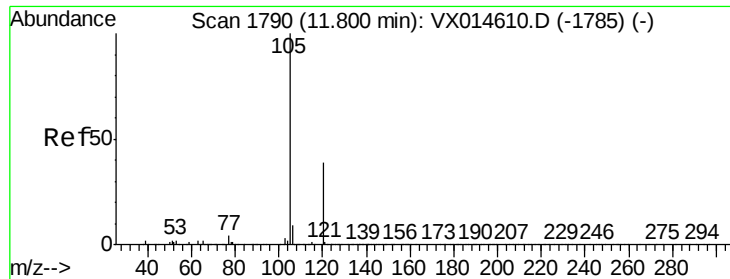
Tgt Ion: 105 Resp: 15808

Ion Ratio Lower Upper

105 100

120 48.6 0.0 100.6





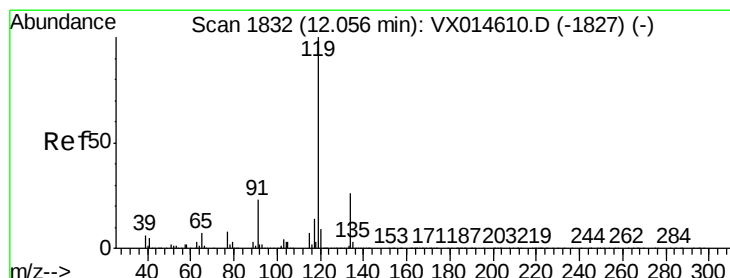
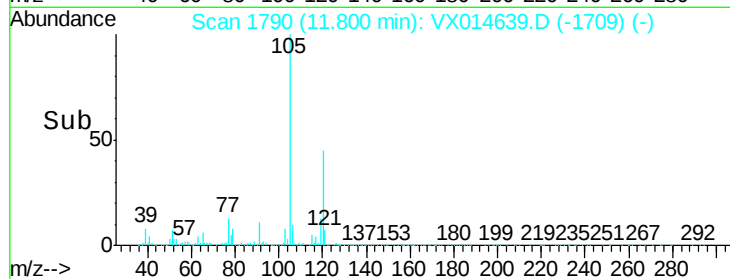
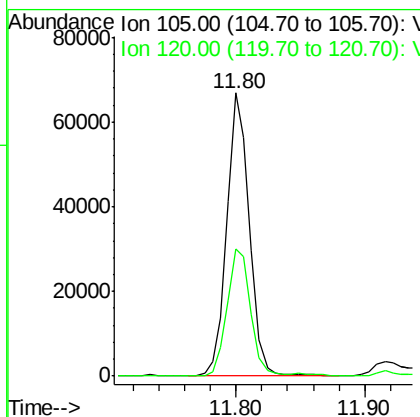
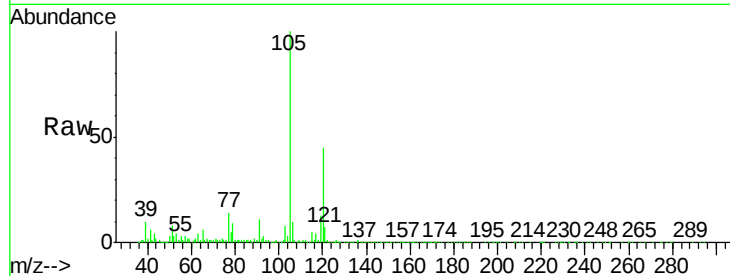
#80
 1,2,4-Trimethylbenzene
 Concen: 4.891 ug/l
 RT: 11.80 min Scan# 1790
 Delta R.T. -0.01 min
 Lab File: VX014639.D
 Acq: 16 Jan 2020 15:34

Instrument :
 MSVOA_X
 ClientSampleId :
 4001157623

Tot Ion	Ratio	Resp	Lower	Upper
105	100	82850		
120	46.5	0.0	92.0	

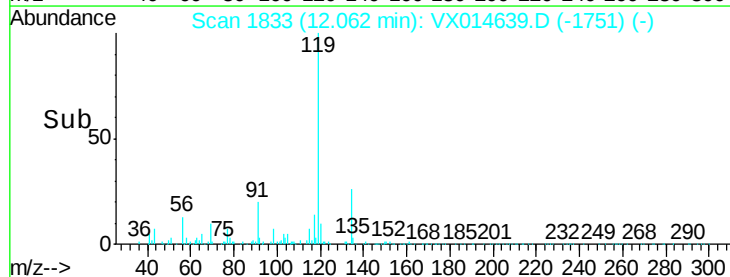
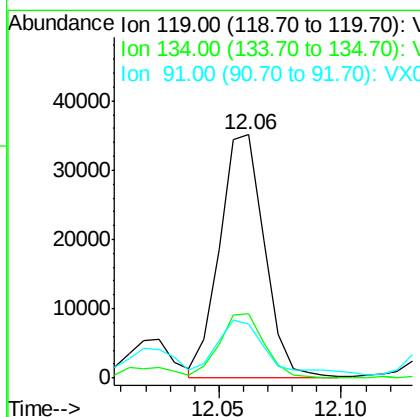
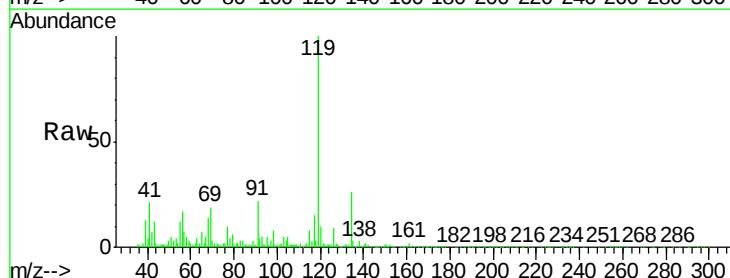
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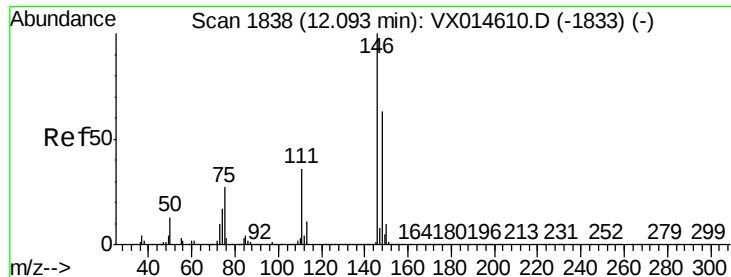
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#82
 p-Isopropyltoluene
 Concen: 2.473 ug/l
 RT: 12.06 min Scan# 1833
 Delta R.T. 0.00 min
 Lab File: VX014639.D
 Acq: 16 Jan 2020 15:34

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	44391		
134	25.9	0.0	53.8	
91	19.2	0.0	45.0	





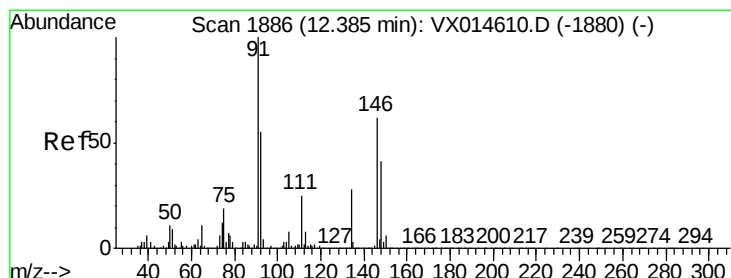
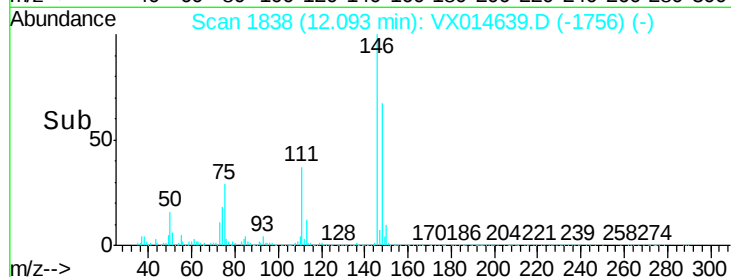
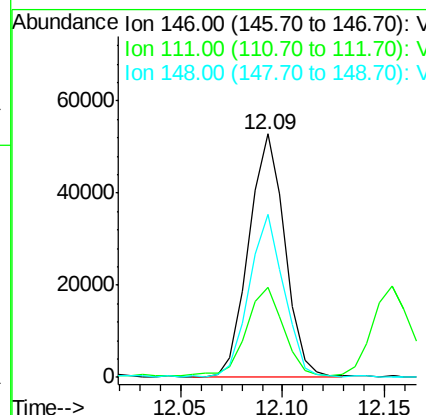
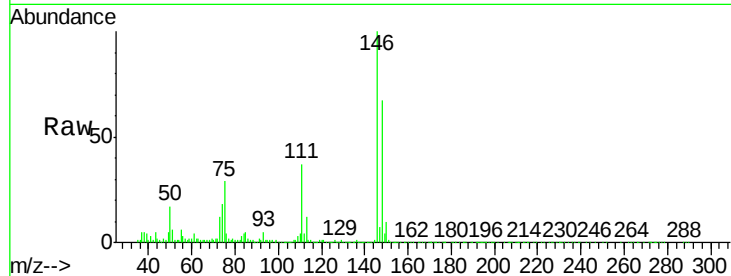
#84
1,4-Dichlorobenzene
Concen: 6.941 ug/l
RT: 12.09 min Scan# 1838
Delta R.T. 0.00 min
Lab File: VX014639.D
Acq: 16 Jan 2020 15:34

Instrument :
MSVOA_X
ClientSampleId :
4001157623

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.0	18.4	55.4
148	64.4	32.0	96.0

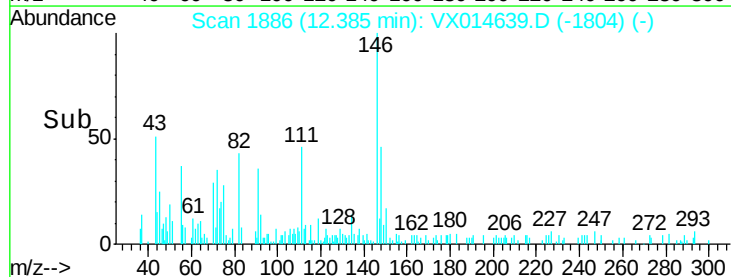
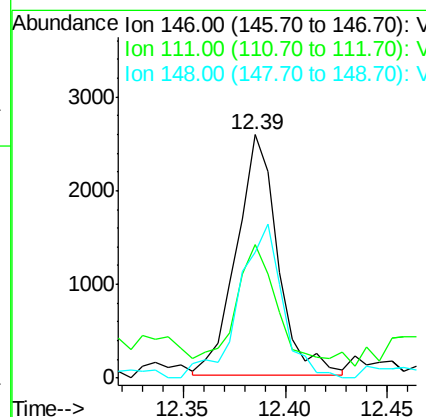
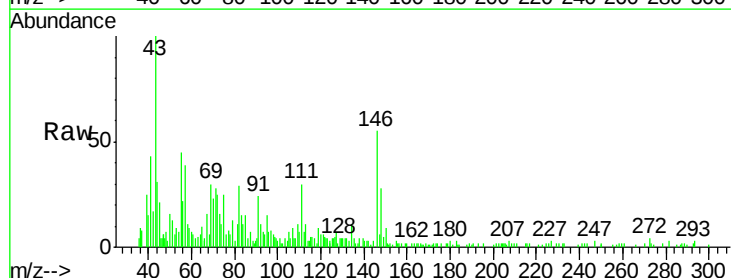
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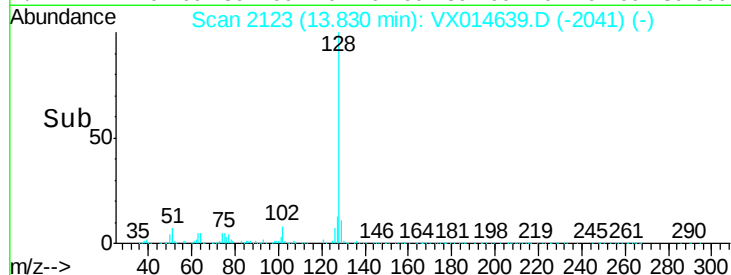
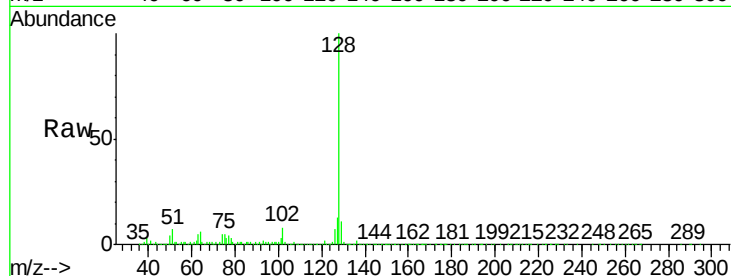
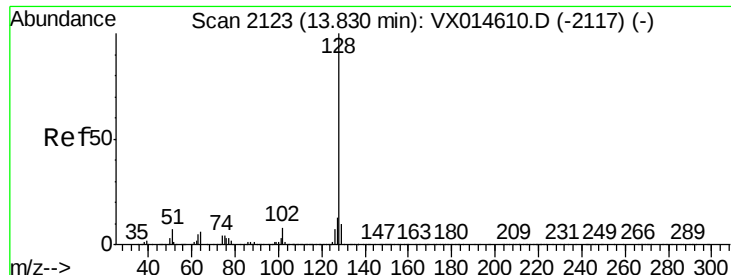
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#87
1,2-Dichlorobenzene
Concen: 0.382 ug/l
RT: 12.39 min Scan# 1886
Delta R.T. 0.00 min
Lab File: VX014639.D
Acq: 16 Jan 2020 15:34

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.7	20.1	60.2
148	62.2	32.0	96.2





#91
Naphthalene
Concen: 19.256 ug/l
RT: 13.83 min Scan# 2123
Delta R.T. 0.00 min
Lab File: VX014639.D
Acq: 16 Jan 2020 15:34

Tot Ion:	128	Resp:	365229
Ion Ratio	Lower	Upper	
128	100		
127	12.7	10.4	15.6
129	10.9	8.9	13.3

Instrument :
MSVOA_X
ClientSampleId :
4001157623

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