

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051019\
 Data File : VX009477.D
 Acq On : 10 May 2019 12:51
 Operator : JC/SP
 Sample : K2747-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 55-ST-12

Manual Integrations
 APPROVED

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 5/11/2019 11:52:00 AM

Quant Time: May 11 03:21:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X050119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 02 06:46:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	28720	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	159504	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	139944	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	69299	29.09	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	96.97%
60) 4-Bromofluorobenzene	11.13	95	69359	29.17	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.23%
63) Toluene-d8	8.71	98	200968	30.29	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.97%

Target Compounds

					Ovalue
15) Acetone	2.44	58	4080	11.067 ug/l	82
22) cis-1,2-Dichloroethene	4.60	96	4346	2.154 ug/l	90
25) Chloroform	5.21	83	17377	5.298 ug/l	100
58) 4-Methyl-2-Pentanone	8.64	43	61657	17.918 ug/l	99
62) Toluene	8.79	91	10812	1.446 ug/l	100
66) Ethyl Benzene	10.25	91	23472	2.818 ug/l	97
67) m/p-Xylenes	10.35	106	39442	12.968 ug/l	97
68) o-Xylene	10.69	106	20600	6.888 ug/l	98
70) Isopropylbenzene	11.02	105	3296	0.410 ug/l	95
74) n-propylbenzene	11.36	91	11664	1.251 ug/l	97
76) 1,3,5-Trimethylbenzene	11.51	105	21778	3.196 ug/l	100
80) 1,2,4-Trimethylbenzene	11.80	105	84306	12.346 ug/l	99
81) sec-Butylbenzene	11.94	105	2711	0.346 ug/l	99
82) p-Isopropyltoluene	12.06	119	2082m	0.292 ug/l	
91) Naphthalene	13.83	128	16977	2.036 ug/l	98

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

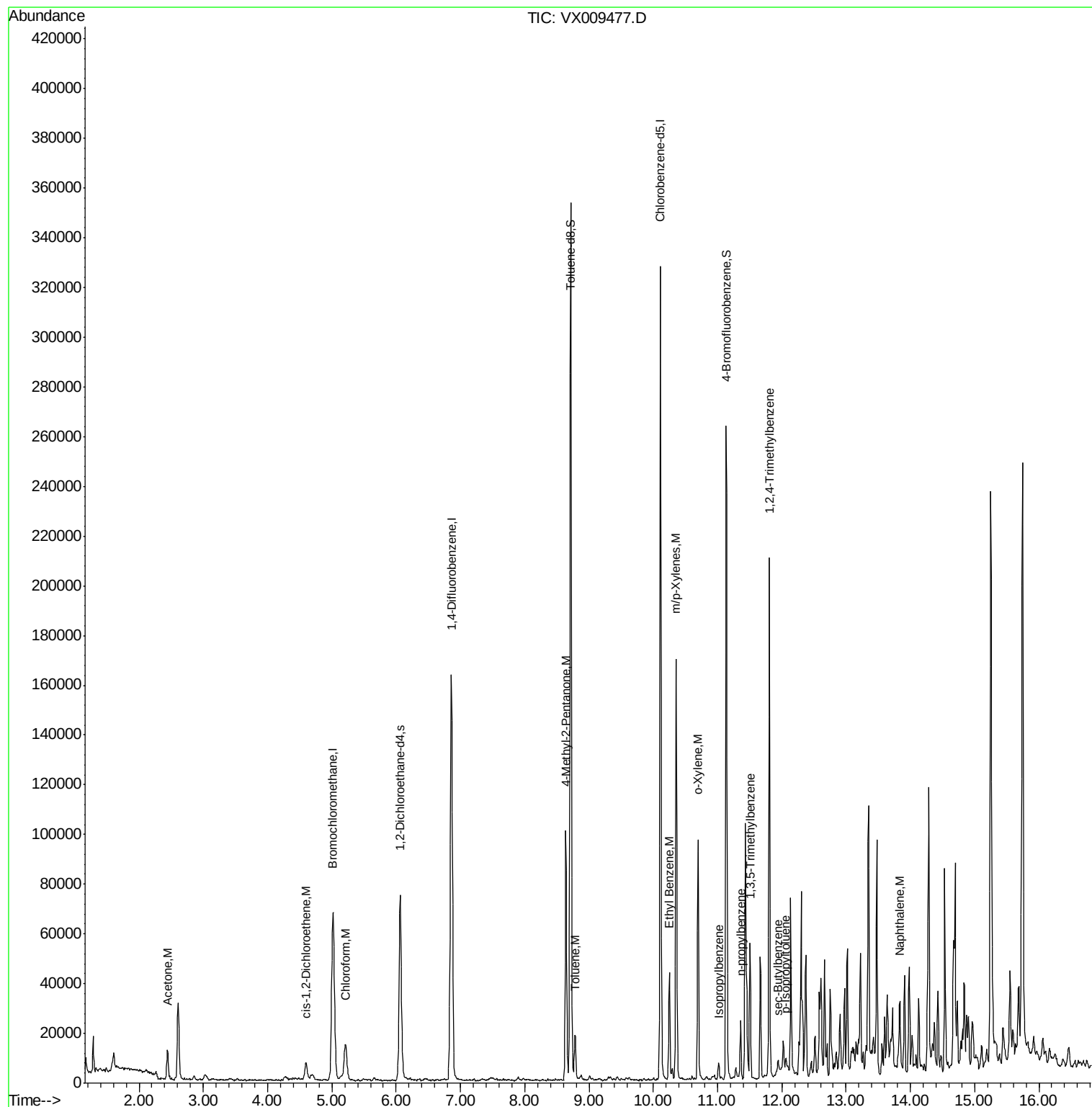
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX051019\
Data File : VX009477.D
Acq On : 10 May 2019 12:51
Operator : JC/SP
Sample : K2747-01
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 8 Sample Multiplier: 1

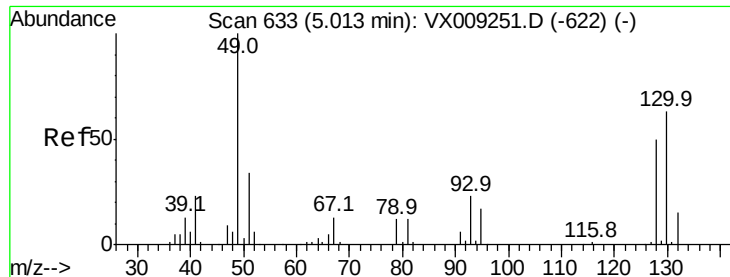
Instrument :
MSVOA_X
ClientSampleId :
55-ST-12

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Quant Time: May 11 03:21:08 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA X\METHOD\624X050119W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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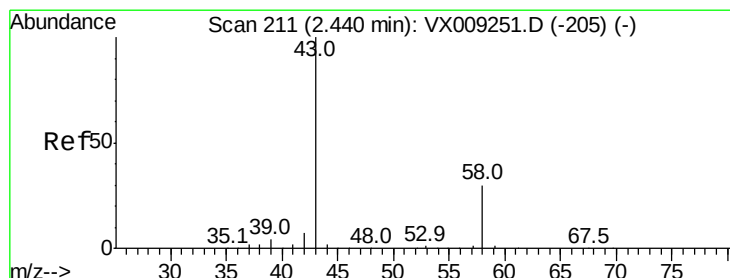
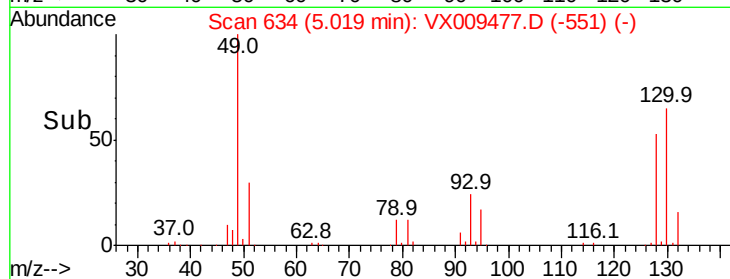
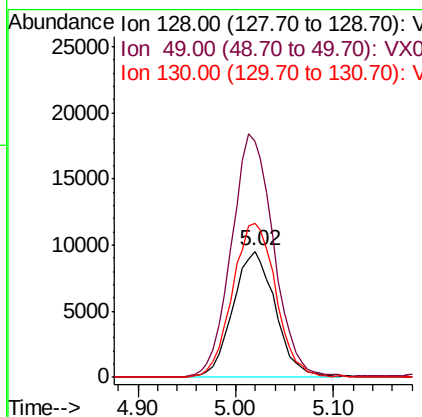
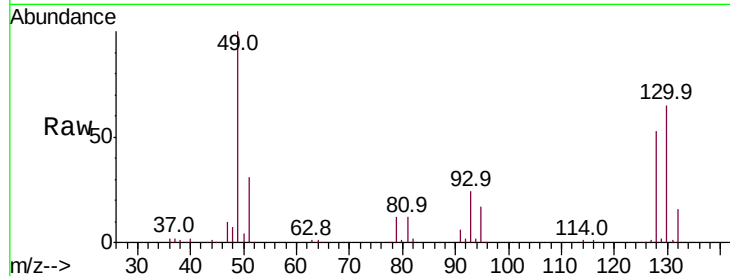
#1
 Bromochloromethane
 Concen: 30.000 ug/l
 RT: 5.02 min Scan# 634
 Delta R.T. 0.01 min
 Lab File: VX009477.D
 Acq: 10 May 2019 12:51

Instrument :
 MSVOA_X
 ClientSampled :
 55-ST-12

Tot Ion:	128	Resp:	28720
Ion	Ratio	Lower	Upper
128	100		
49	192.8	0.0	515.0
130	125.3	0.0	323.3

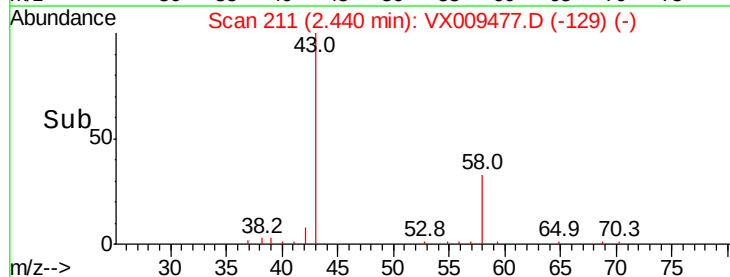
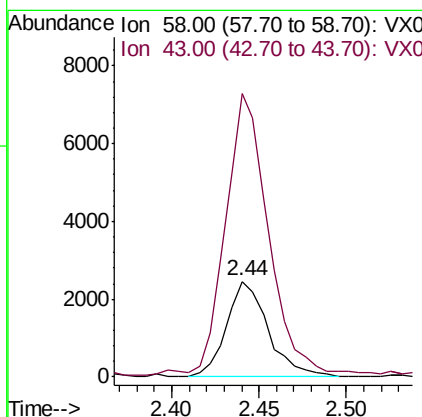
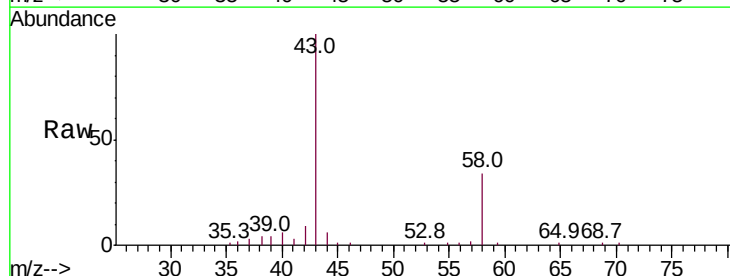
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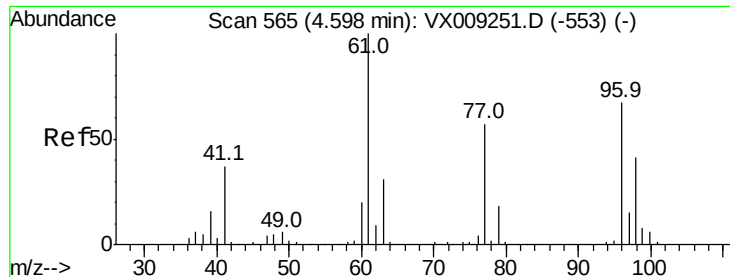
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#15
 Acetone
 Concen: 11.067 ug/l
 RT: 2.44 min Scan# 211
 Delta R.T. 0.00 min
 Lab File: VX009477.D
 Acq: 10 May 2019 12:51

Tgt Ion:	58	Resp:	4080
Ion	Ratio	Lower	Upper
58	100		
43	291.5	264.0	396.0





#22

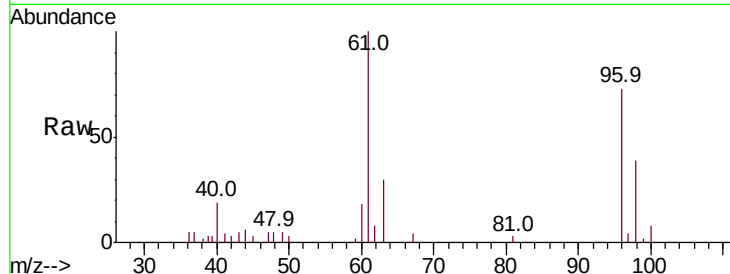
cis-1,2-Dichloroethene
Concen: 2.154 ug/l
RT: 4.60 min Scan# 565
Delta R.T. 0.00 min
Lab File: VX009477.D
Acq: 10 May 2019 12:51

Instrument :
MSVOA_X
ClientSampled :
55-ST-12

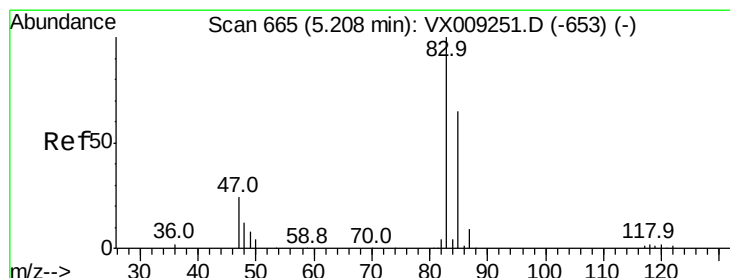
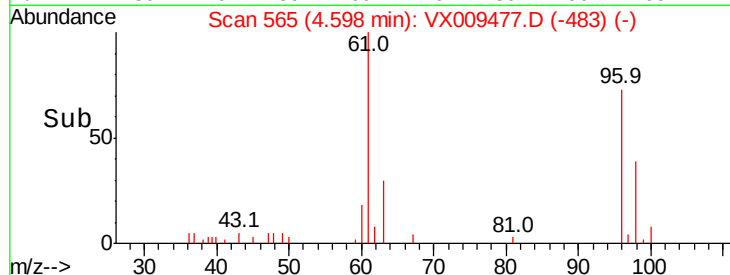
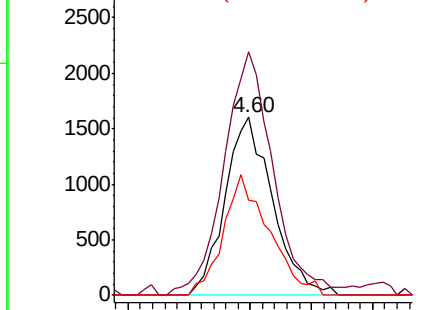
Tot Ion	Ratio	Lower	Upper
96	100		
61	141.4	127.7	191.5
98	63.8	50.5	75.7

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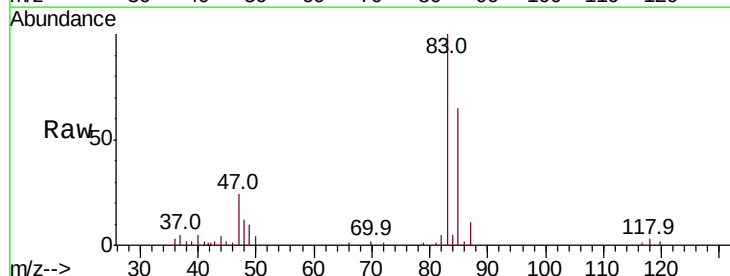
Abundance Ion 96.00 (95.70 to 96.70): VX0
Ion 61.00 (60.70 to 61.70): VX0
Ion 98.00 (97.70 to 98.70): VX0



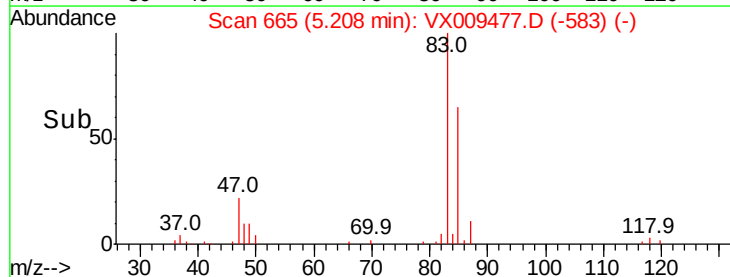
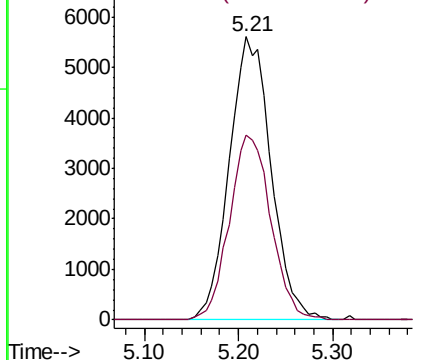
#25

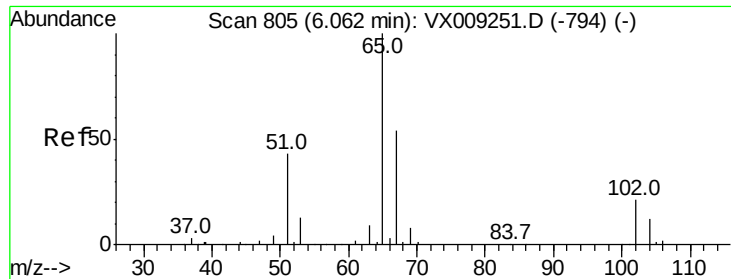
Chloroform
Concen: 5.298 ug/l
RT: 5.21 min Scan# 665
Delta R.T. 0.00 min
Lab File: VX009477.D
Acq: 10 May 2019 12:51

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.3	51.9	77.9



Abundance Ion 83.00 (82.70 to 83.70): VX0
Ion 85.00 (84.70 to 85.70): VX0





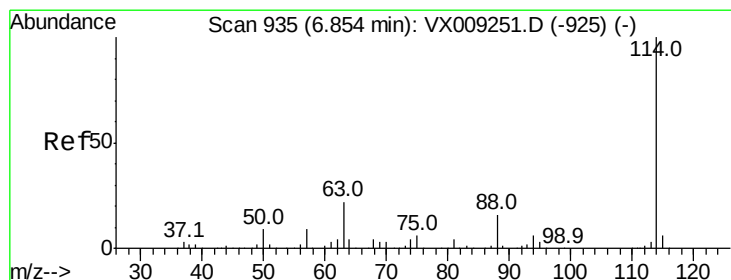
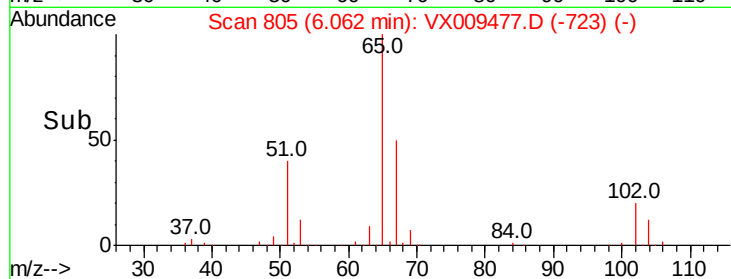
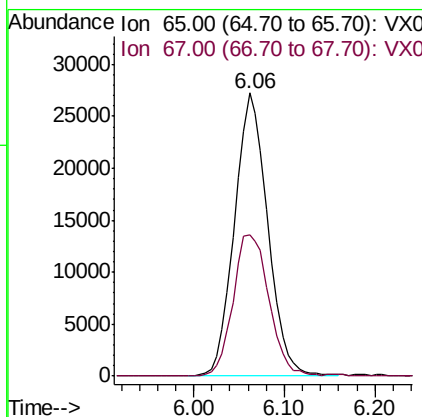
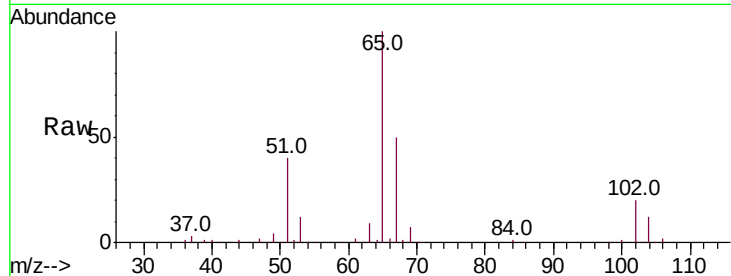
#27
 1,2-Dichloroethane-d4
 Concen: 29.087 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: VX009477.D
 Acq: 10 May 2019 12:51

Instrument :
 MSVOA_X
 ClientSampleId :
 55-ST-12

Tot Ion: 65 Resp: 69299
 Ion Ratio Lower Upper
 65 100
 67 53.8 43.1 64.7

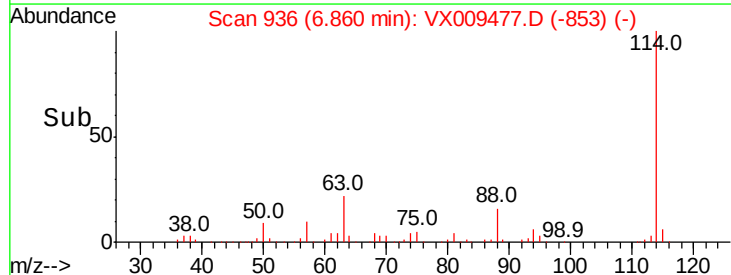
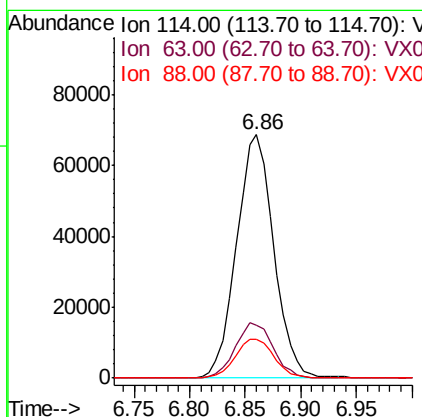
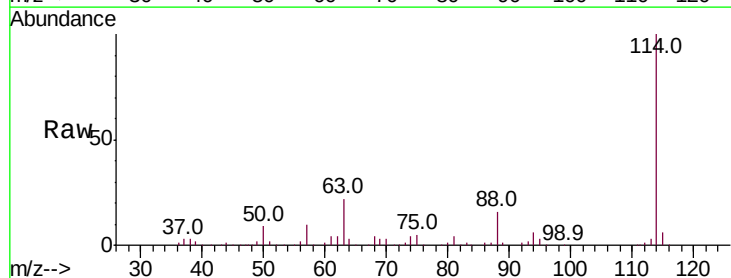
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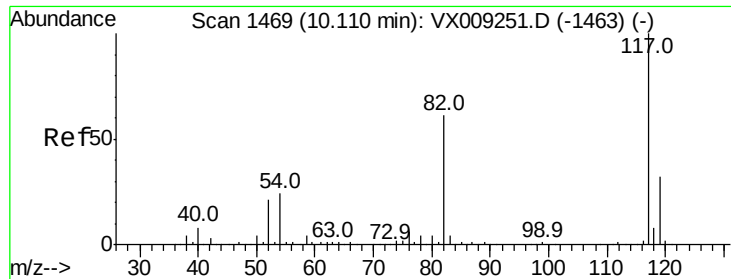
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#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.01 min
 Lab File: VX009477.D
 Acq: 10 May 2019 12:51

Tgt Ion: 114 Resp: 159504
 Ion Ratio Lower Upper
 114 100
 63 23.3 18.0 27.0
 88 16.7 13.4 20.0





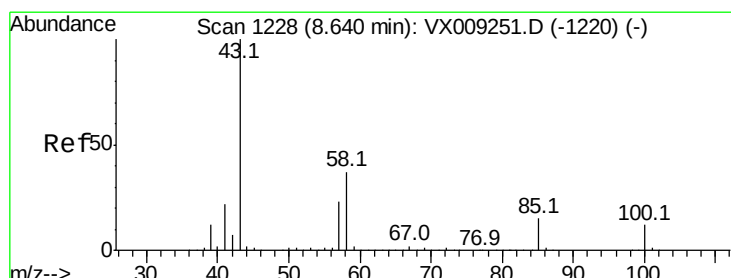
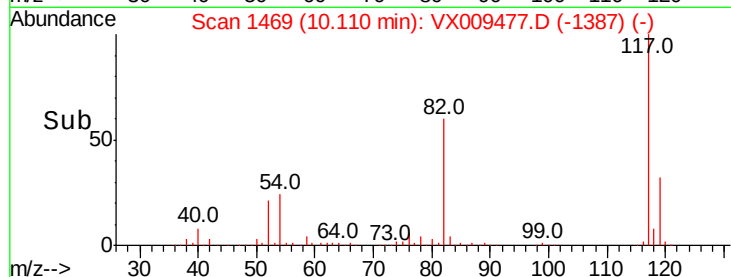
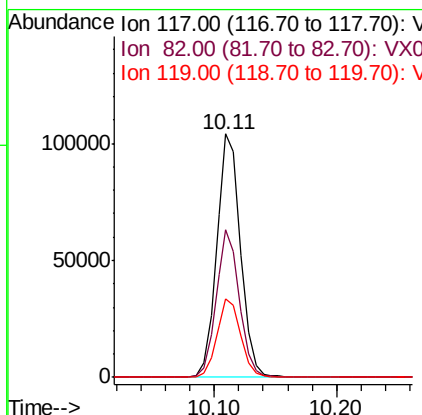
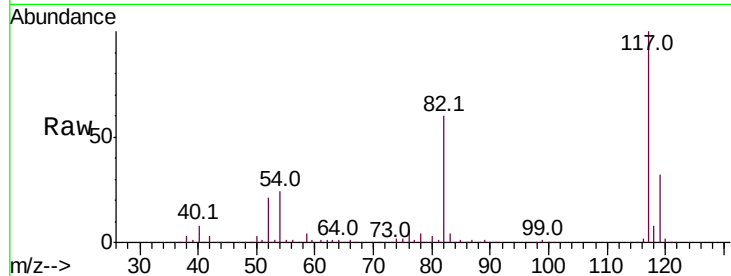
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX009477.D
Acq: 10 May 2019 12:51

Instrument :
MSVOA_X
ClientSampled :
55-ST-12

Tot Ion	Ratio	Lower	Upper
117	100		
82	59.2	47.8	71.8
119	32.4	25.6	38.4

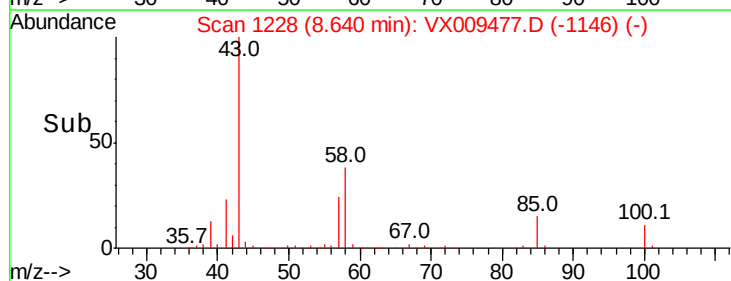
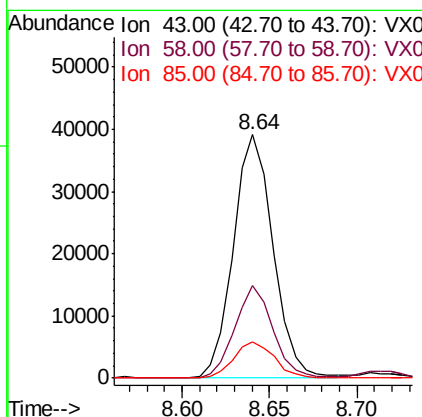
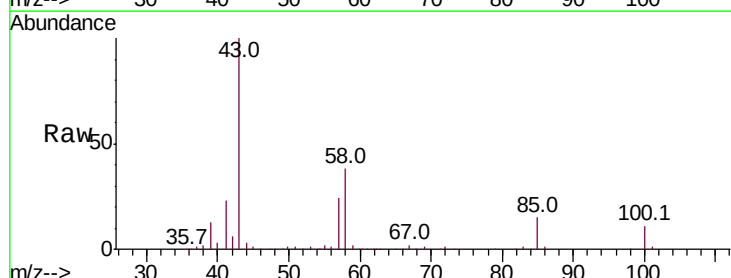
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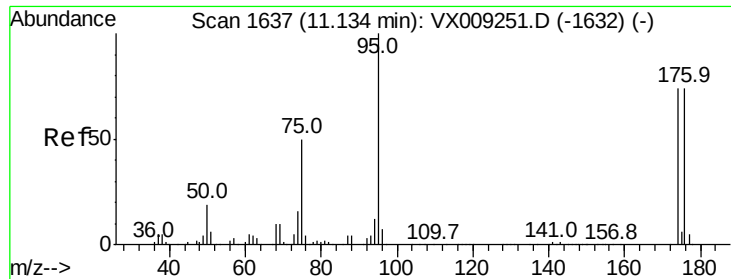
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#58
4-Methyl-2-Pentanone
Concen: 17.918 ug/l
RT: 8.64 min Scan# 1228
Delta R.T. 0.00 min
Lab File: VX009477.D
Acq: 10 May 2019 12:51

Tgt Ion	Ratio	Lower	Upper
43	100		
58	36.9	29.4	44.0
85	15.4	11.8	17.8





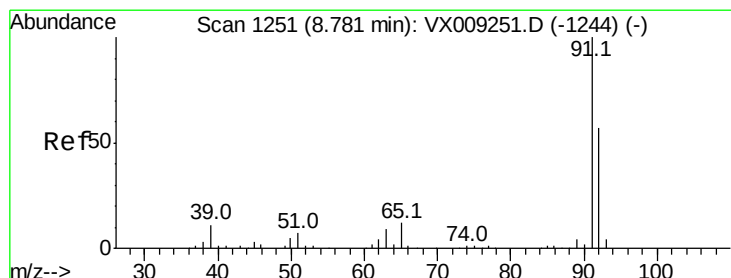
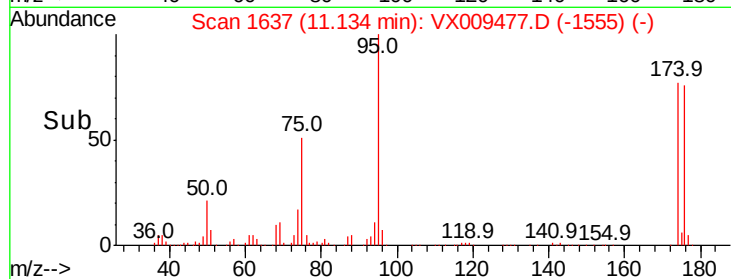
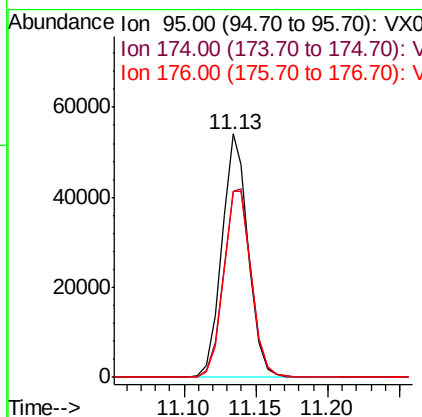
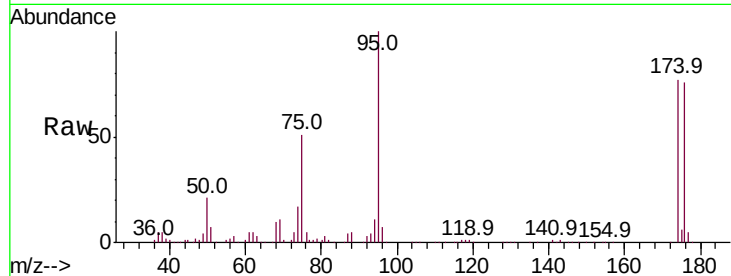
#60
 4-Bromofluorobenzene
 Concen: 29.167 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.00 min
 Lab File: VX009477.D
 Acq: 10 May 2019 12:51

Instrument :
 MSVOA_X
 ClientSampleId :
 55-ST-12

Tot Ion	Ratio	Lower	Upper
95	100		
174	81.7	63.6	95.4
176	80.0	62.4	93.6

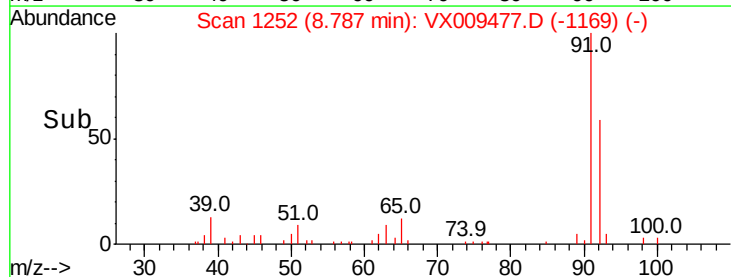
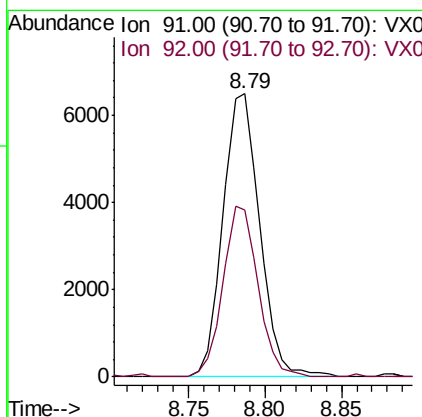
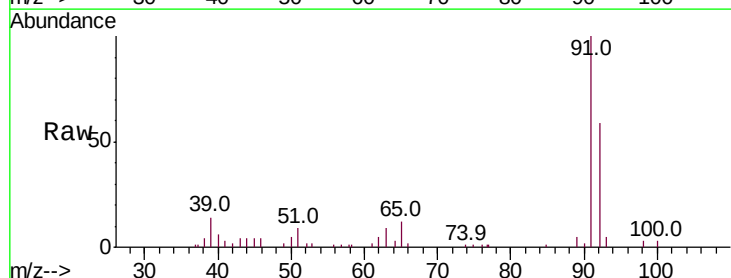
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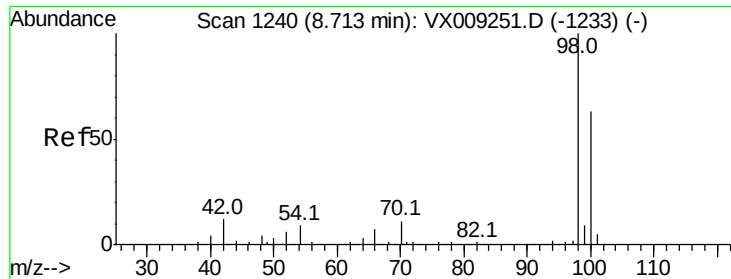
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#62
 Toluene
 Concen: 1.446 ug/l
 RT: 8.79 min Scan# 1252
 Delta R.T. 0.01 min
 Lab File: VX009477.D
 Acq: 10 May 2019 12:51

Tgt Ion	Ratio	Lower	Upper
91	100		
92	57.5	46.1	69.1





#63

Toluene-d8

Concen: 30.290 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX009477.D

Acq: 10 May 2019 12:51

Instrument :

MSVOA_X

ClientSampled :

55-ST-12

Tot Ion: 98 Resp: 200968

Ion Ratio Lower Upper

98 100

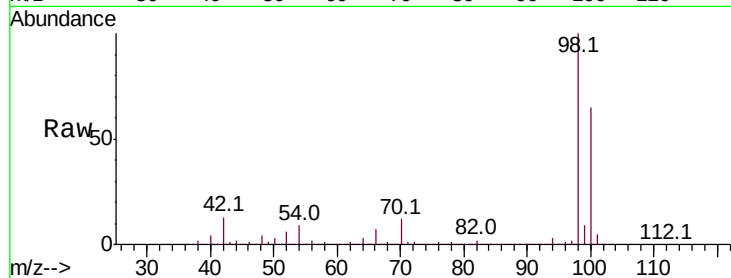
100 64.5 52.3 78.5

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Abundance Ion 98.00 (97.70 to 98.70): VX0

150000 Ion 100.00 (99.70 to 100.70): V

8.71

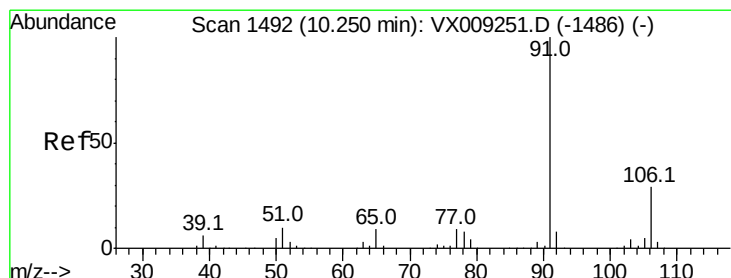
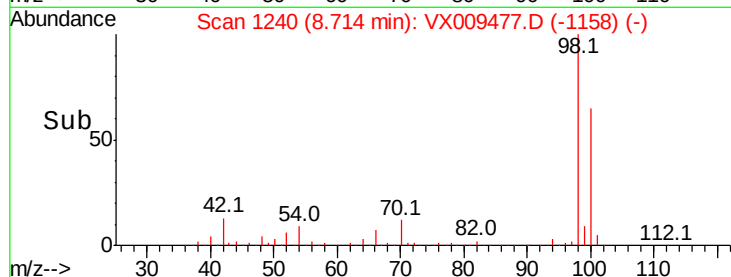
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50000

0

Time-->

8.65 8.70 8.75 8.80



#66

Ethyl Benzene

Concen: 2.818 ug/l

RT: 10.25 min Scan# 1492

Delta R.T. 0.00 min

Lab File: VX009477.D

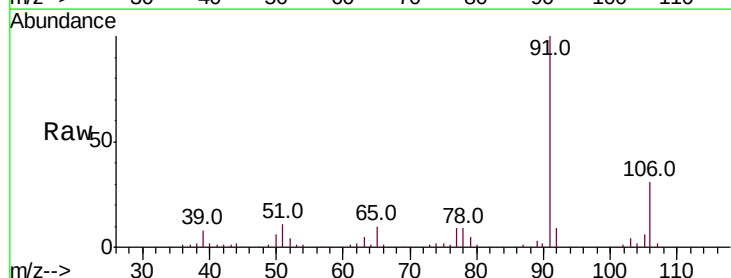
Acq: 10 May 2019 12:51

Tgt Ion: 91 Resp: 23472

Ion Ratio Lower Upper

91 100

106 31.2 23.5 35.3



Abundance Ion 91.00 (90.70 to 91.70): VX0

20000 Ion 106.00 (105.70 to 106.70): V

10.25

15000

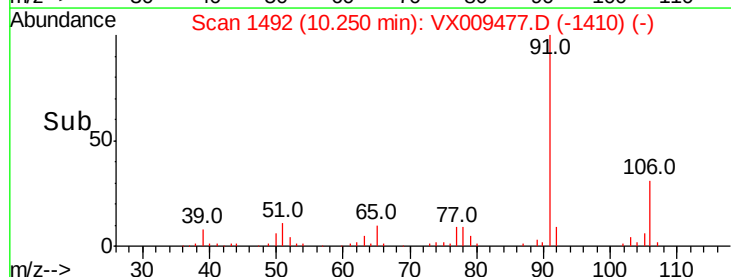
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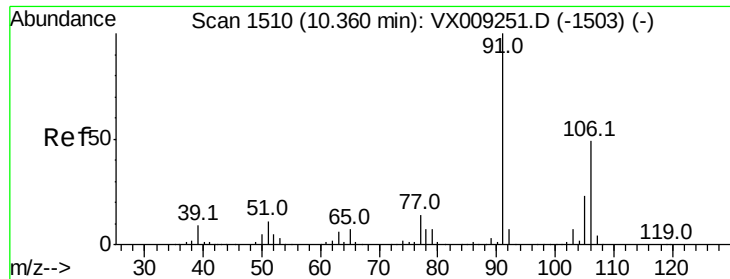
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0

Time-->

10.20 10.25 10.30





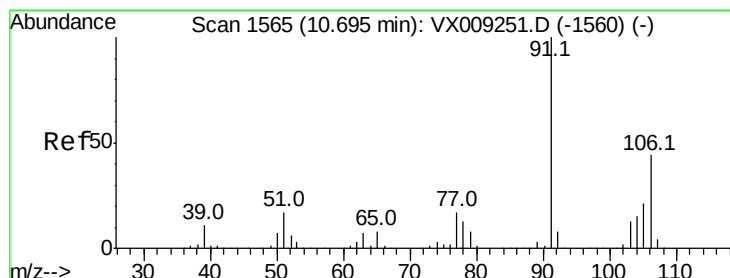
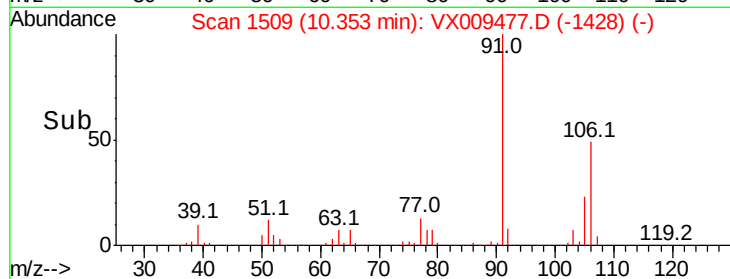
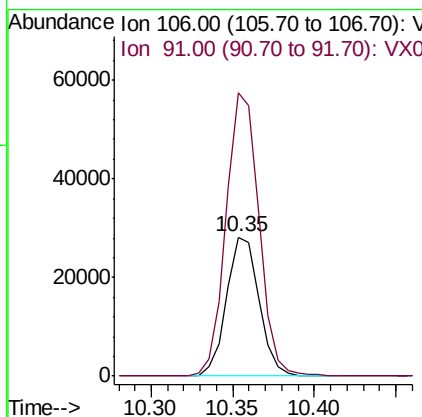
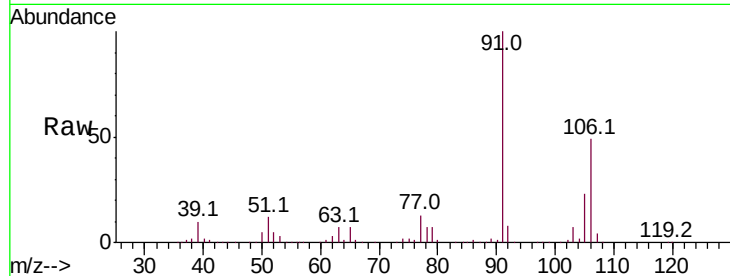
#67
m/p-Xylenes
Concen: 12.968 ug/l
RT: 10.35 min Scan# 1509
Delta R.T. -0.01 min
Lab File: VX009477.D
Acq: 10 May 2019 12:51

Instrument :
MSVOA_X
ClientSampleId :
55-ST-12

Tot Ion:106 Resp: 39442
Ion Ratio Lower Upper
106 100
91 204.6 166.8 250.2

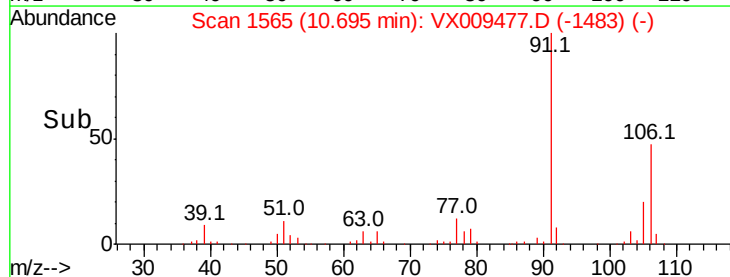
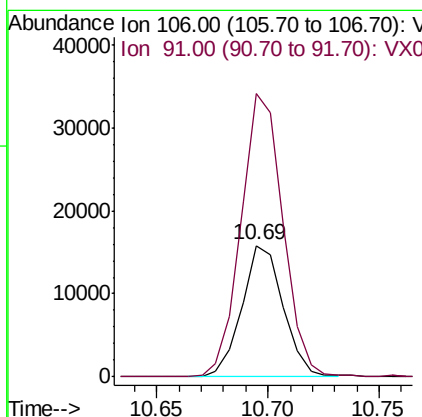
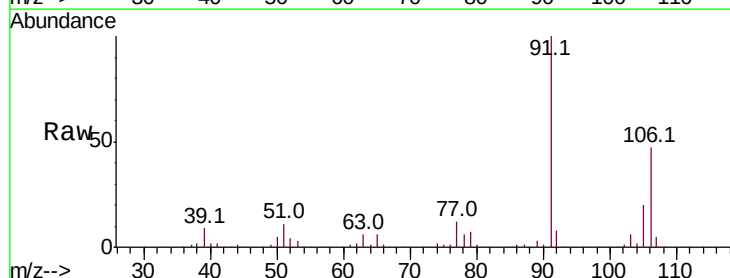
Manual Integrations
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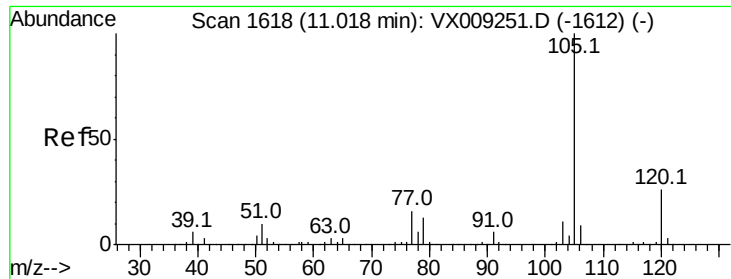
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#68
o-Xylene
Concen: 6.888 ug/l
RT: 10.69 min Scan# 1565
Delta R.T. 0.00 min
Lab File: VX009477.D
Acq: 10 May 2019 12:51

Tgt Ion:106 Resp: 20600
Ion Ratio Lower Upper
106 100
91 218.9 110.8 332.3





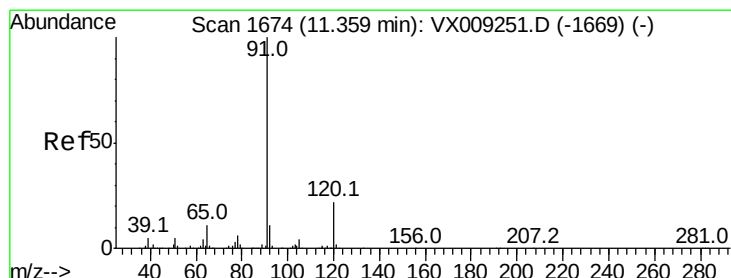
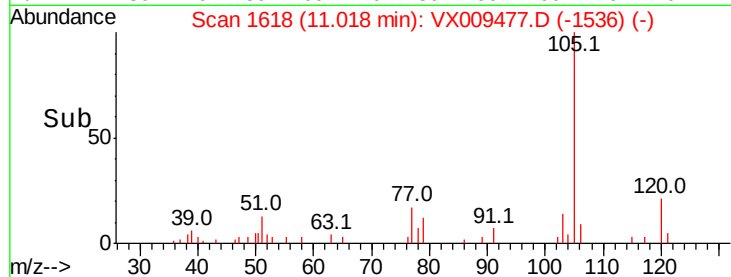
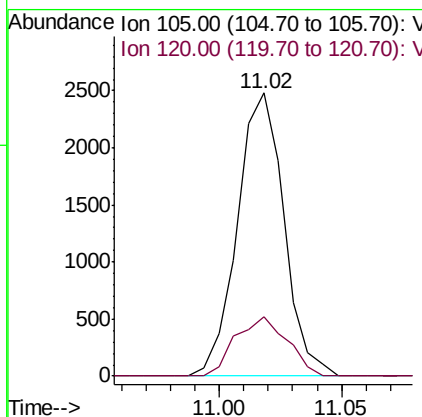
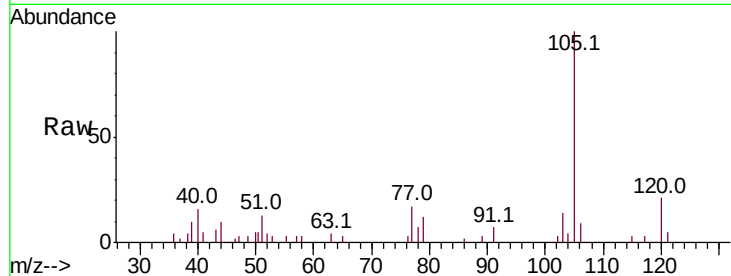
#70
Isopropylbenzene
Concen: 0.410 ug/l
RT: 11.02 min Scan# 1618
Delta R.T. 0.00 min
Lab File: VX009477.D
Acq: 10 May 2019 12:51

Instrument :
MSVOA_X
ClientSampled :
55-ST-12

Tot Ion	Ratio	Lower	Upper
105	100		
120	23.2	18.1	33.7

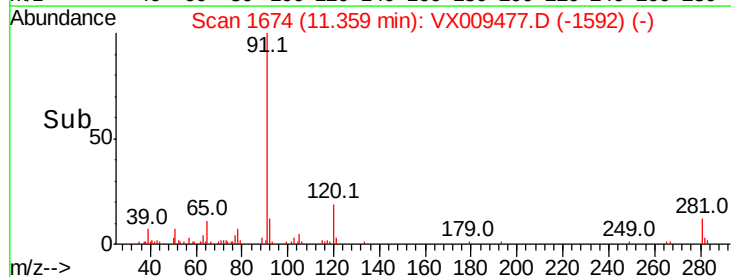
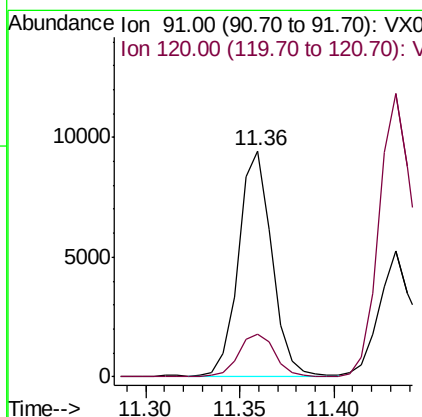
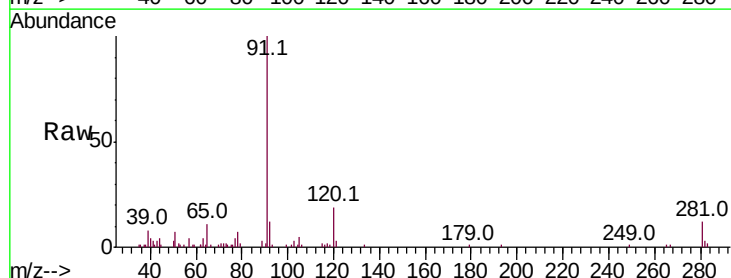
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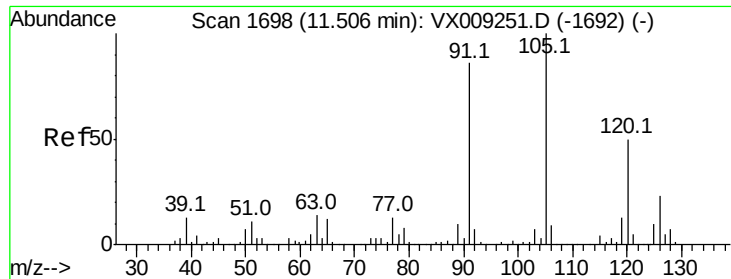
MMDadoda
5/11/2019 11:52:00 AM



#74
n-propylbenzene
Concen: 1.251 ug/l
RT: 11.36 min Scan# 1674
Delta R.T. 0.00 min
Lab File: VX009477.D
Acq: 10 May 2019 12:51

Tgt Ion	Ratio	Lower	Upper
91	100		
120	20.3	0.0	43.4





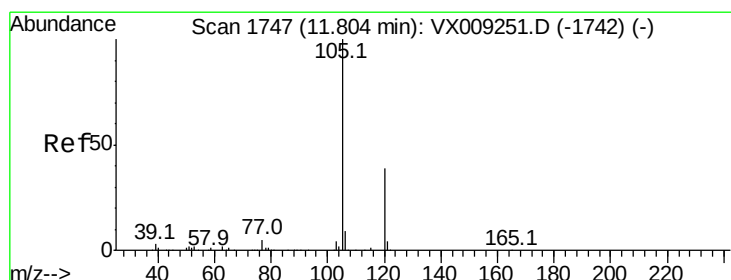
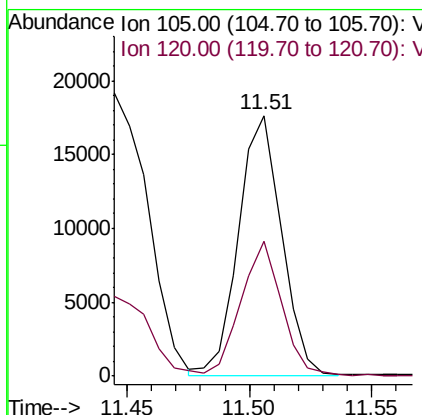
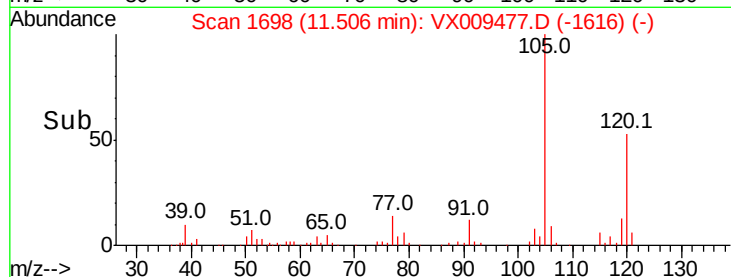
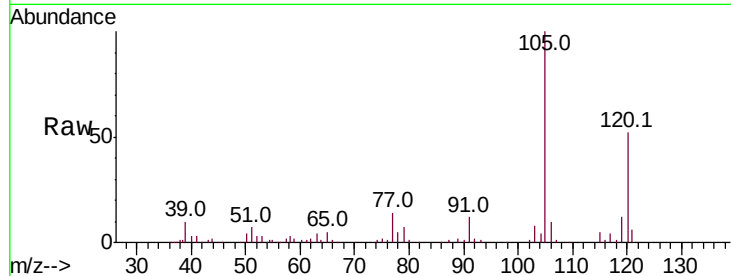
#76
 1,3,5-Trimethylbenzene
 Concen: 3.196 ug/l
 RT: 11.51 min Scan# 1698
 Delta R.T. 0.00 min
 Lab File: VX009477.D
 Acq: 10 May 2019 12:51

Instrument :
 MSVOA_X
 ClientSampled :
 55-ST-12

Tot Ion:105 Resp: 21778
 Ion Ratio Lower Upper
 105 100
 120 49.0 0.0 97.4

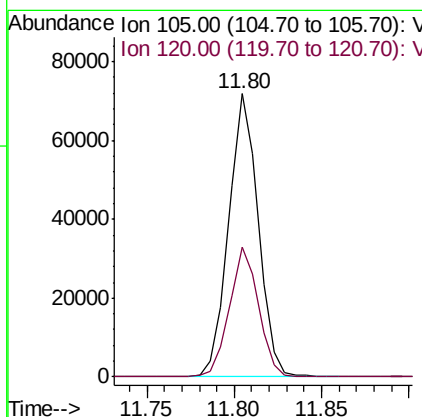
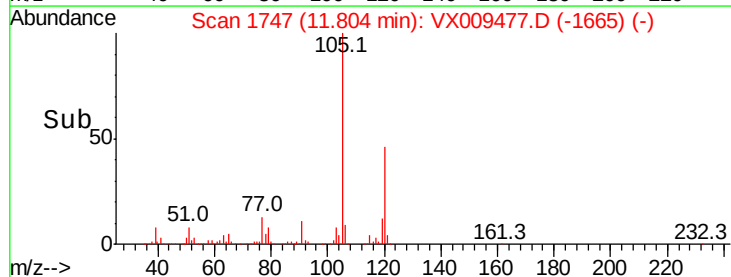
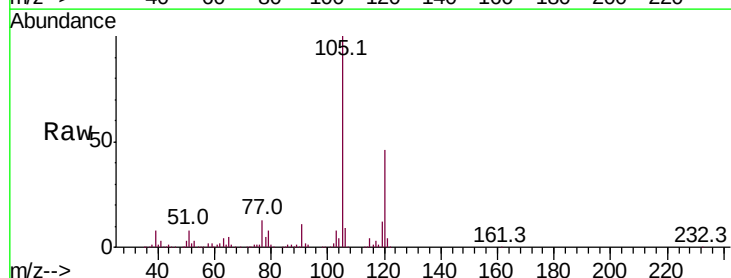
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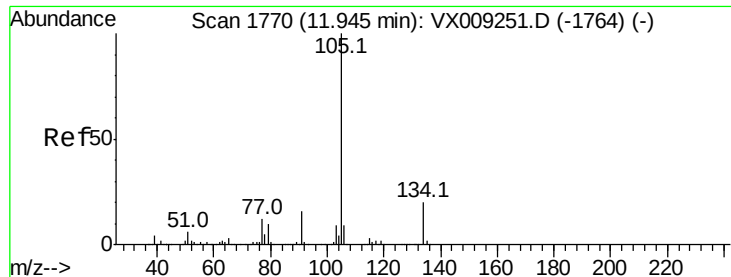
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 5/11/2019 11:52:00 AM



#80
 1,2,4-Trimethylbenzene
 Concen: 12.346 ug/l
 RT: 11.80 min Scan# 1747
 Delta R.T. 0.00 min
 Lab File: VX009477.D
 Acq: 10 May 2019 12:51

Tgt Ion:105 Resp: 84306
 Ion Ratio Lower Upper
 105 100
 120 45.2 0.0 89.6





#81

sec-Butylbenzene

Concen: 0.346 ug/l

RT: 11.94 min Scan# 1770

Delta R.T. 0.00 min

Lab File: VX009477.D

Acq: 10 May 2019 12:51

Instrument :

MSVOA_X

ClientSampled :

55-ST-12

Tot Ion:105 Resp: 2711

Ion Ratio Lower Upper

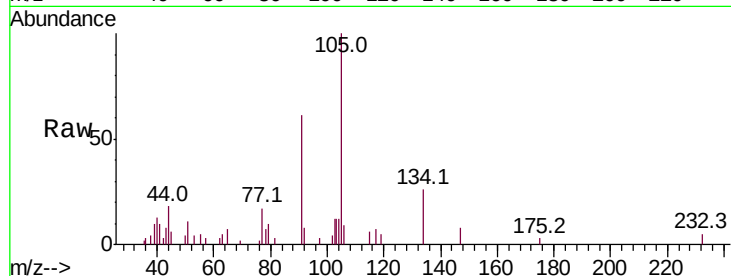
105 100

134 19.6 0.0 38.6

Manual Integrations
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

2500

2000

1500

1000

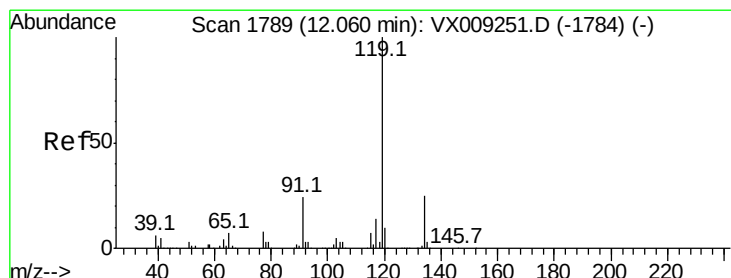
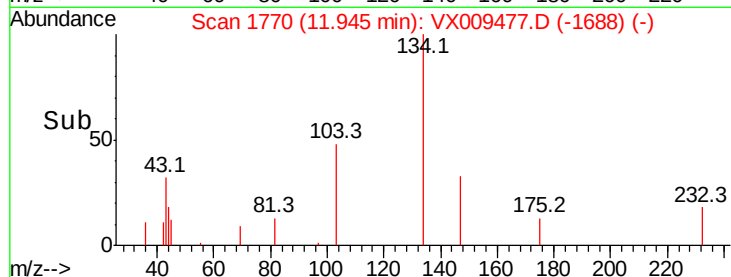
500

0

Time-->

11.90

11.95



#82

p-Isopropyltoluene

Concen: 0.292 ug/l m

RT: 12.06 min Scan# 1789

Delta R.T. 0.00 min

Lab File: VX009477.D

Acq: 10 May 2019 12:51

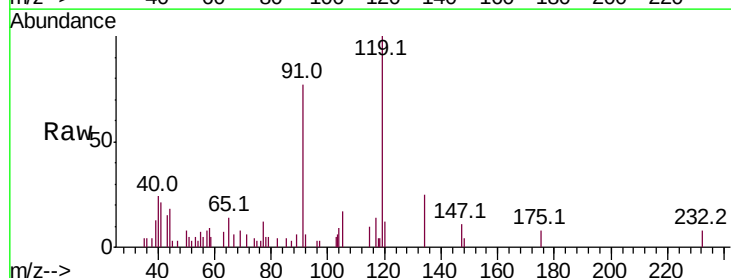
Tgt Ion:119 Resp: 2082

Ion Ratio Lower Upper

119 100

134 52.6 0.0 50.8#

91 53.7 0.0 47.2#



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VX0

4000

3000

2000

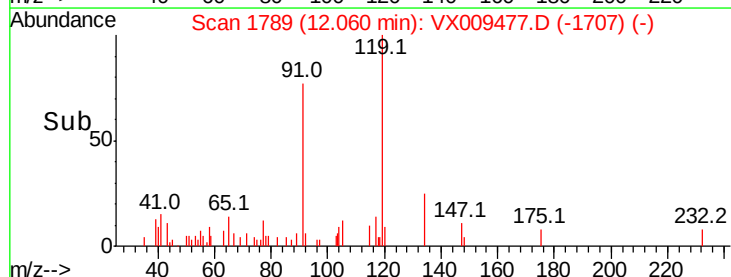
1000

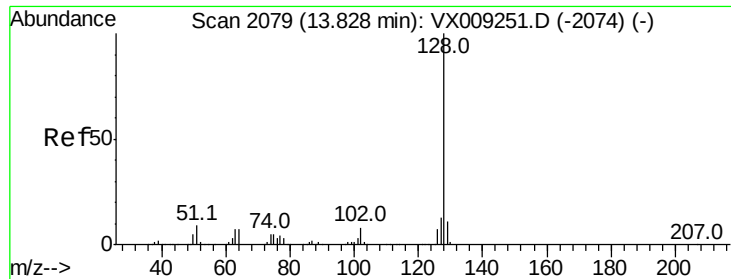
0

Time-->

12.05

12.10





#91
Naphthalene
Concen: 2.036 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. 0.01 min
Lab File: VX009477.D
Acq: 10 May 2019 12:51

Instrument :
MSVOA_X
ClientSampleId :
55-ST-12

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.8	10.5	15.7
129	10.4	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
5/11/2019 11:52:00 AM

