

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120319\
 Data File : VX013725.D
 Acq On : 03 Dec 2019 15:24
 Operator : JC/SP
 Sample : K6027-13DL 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-2DL

Manual Integrations
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Quant Time: Dec 04 13:47:22 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112619W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 26 15:53:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	676356	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	1027665	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	920895	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	439940	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.05	65	367041	46.75	ug/l	0.00
Spiked Amount 50.000			Recovery	=	93.50%	
35) Dibromofluoromethane	5.49	113	303690	47.80	ug/l	0.00
Spiked Amount 50.000			Recovery	=	95.60%	
50) Toluene-d8	8.71	98	1223774	49.44	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.88%	
62) 4-Bromofluorobenzene	11.14	95	427075	47.85	ug/l	0.00
Spiked Amount 50.000			Recovery	=	95.70%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	3.02	59	12896	6.655	ug/l #	74
16) Acetone	2.43	43	9018	2.327	ug/l	92
19) Methyl tert-butyl Ether	3.19	73	67308	3.157	ug/l #	1
25) 2-Butanone	4.67	43	6182	1.073	ug/l #	26
27) cis-1,2-Dichloroethene	4.59	96	3768	0.468	ug/l	88
31) Cyclohexane	5.57	56	56355	4.859	ug/l #	95
39) Methylcyclohexane	7.46	83	62089	5.385	ug/l	94
40) Benzene	6.14	78	723134	25.452	ug/l	100
52) Toluene	8.78	92	53750	3.045	ug/l	97
67) Ethyl Benzene	10.25	91	1518533	46.219	ug/l	99
68) m/p-Xylenes	10.35	106	1435604	114.130	ug/l	100
69) o-Xylene	10.70	106	106988	8.721	ug/l	98
73) Isopropylbenzene	11.01	105	213449	6.917	ug/l	100
78) n-propylbenzene	11.35	91	405608	11.774	ug/l	100
80) 1,3,5-Trimethylbenzene	11.50	105	308638	12.203	ug/l	100
84) 1,2,4-Trimethylbenzene	11.81	105	2478646	96.560	ug/l	98
85) sec-Butylbenzene	11.94	105	33103m	1.127	ug/l	
86) p-Isopropyltoluene	12.06	119	10957	0.401	ug/l #	75
89) n-Butylbenzene	12.38	91	33529m	1.439	ug/l	
95) Naphthalene	13.83	128	1158404	38.871	ug/l	99

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

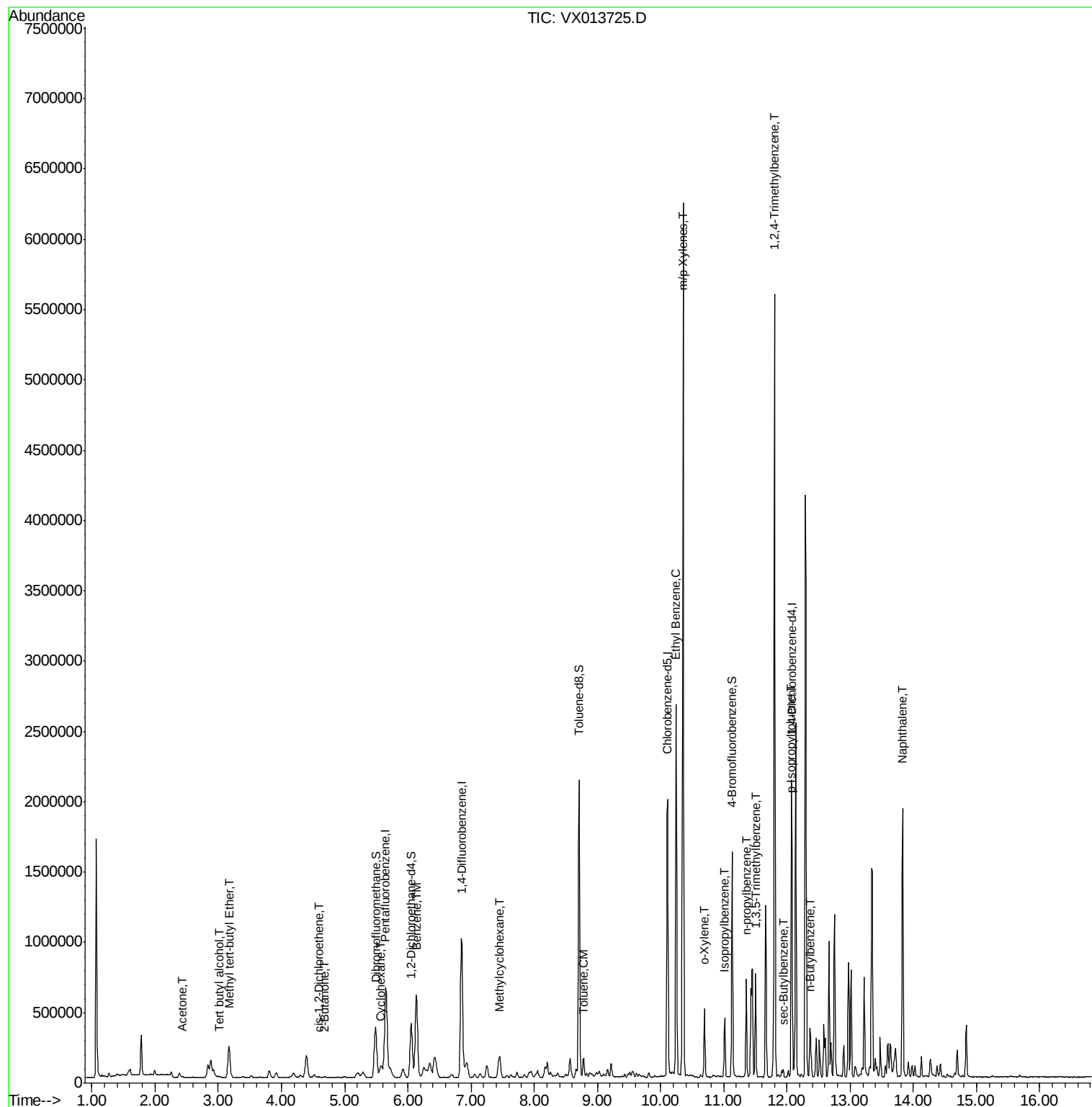
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX120319\
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Quant Time: Dec 04 13:47:22 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X112619W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 26 15:53:00 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX013725.D

Acq: 03 Dec 2019 15:24

Instrument :

MSVOA_X

ClientSampled :

MW-2DL

Tot Ion:168 Resp: 676356

Ion Ratio Lower Upper

168 100

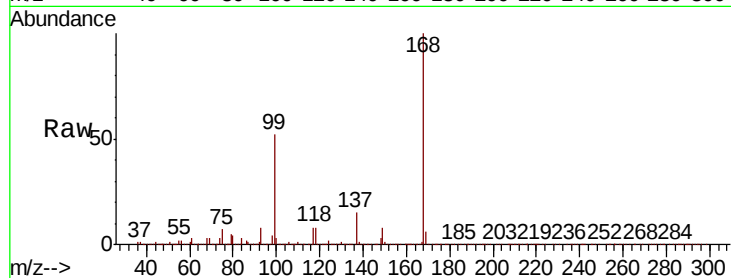
99 51.9 39.8 59.8

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

250000

200000

150000

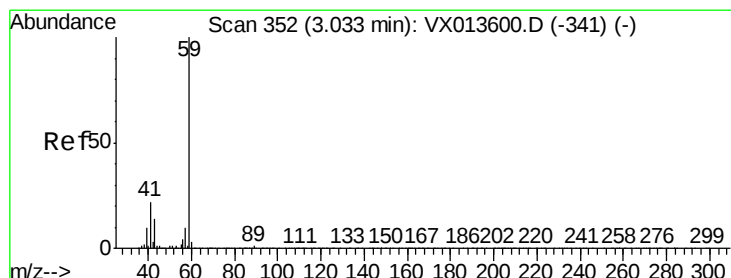
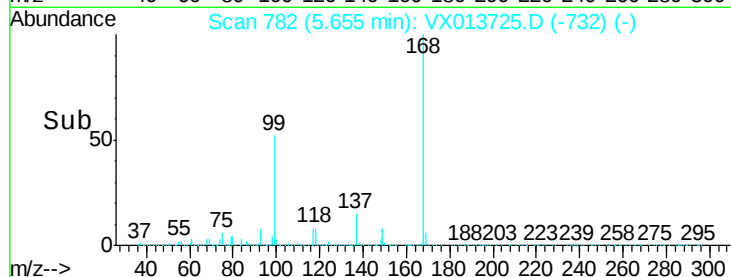
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50000

0

5.50 5.60 5.70 5.80

Time-->



#11

Tert butyl alcohol

Concen: 6.655 ug/l

RT: 3.02 min Scan# 350

Delta R.T. -0.01 min

Lab File: VX013725.D

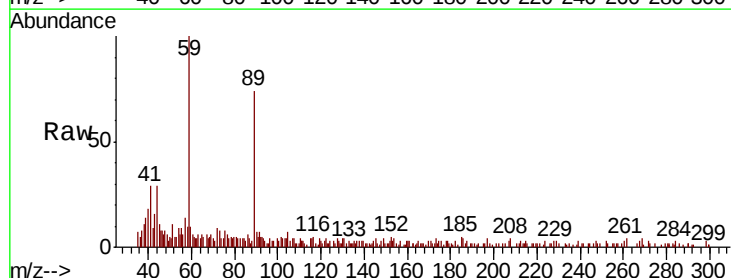
Acq: 03 Dec 2019 15:24

Tgt Ion: 59 Resp: 12896

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

40000

30000

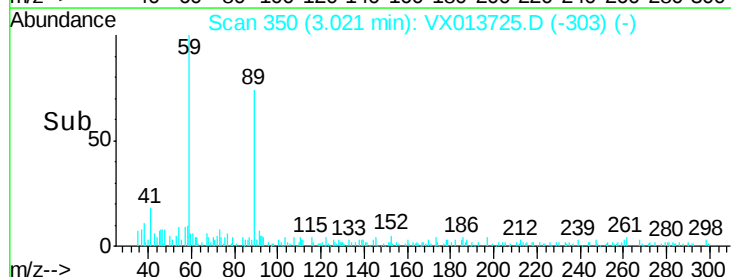
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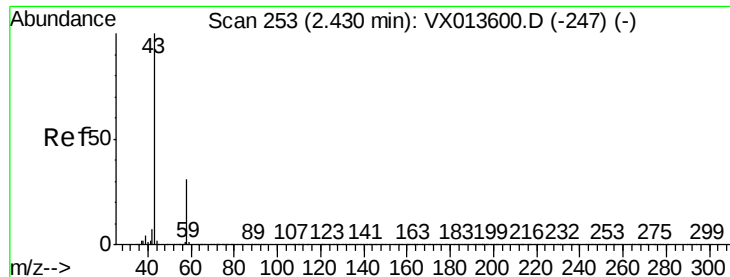
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0

2.95 3.00 3.05 3.10

Time-->





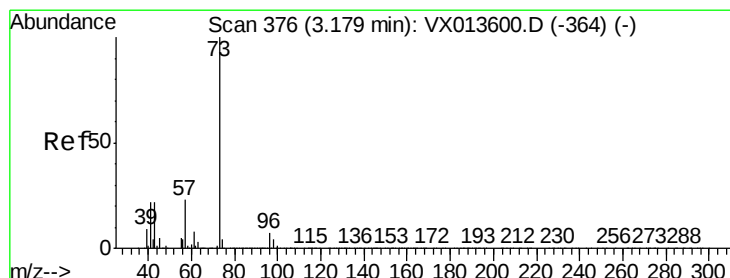
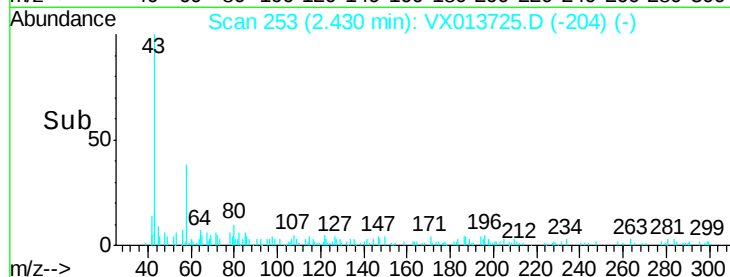
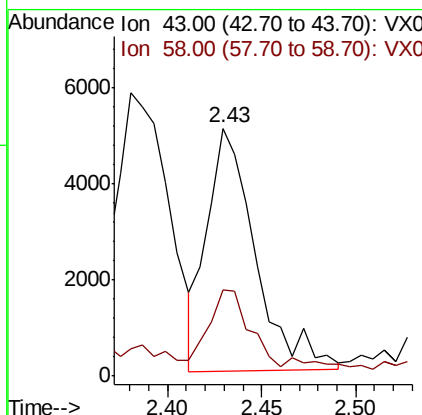
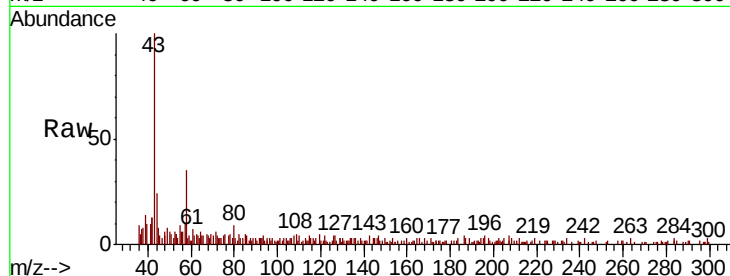
#16
Acetone
Concen: 2.327 ug/l
RT: 2.43 min Scan# 253
Delta R.T. 0.00 min
Lab File: VX013725.D
Acq: 03 Dec 2019 15:24

Instrument :
MSVOA_X
ClientSampleId :
MW-2DL

Tot Ion	Ratio	Lower	Upper
43	100		
58	35.3	24.6	36.8

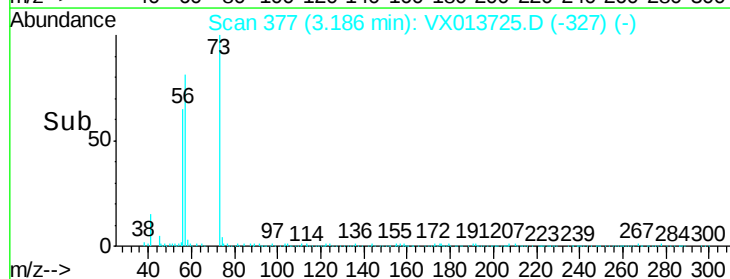
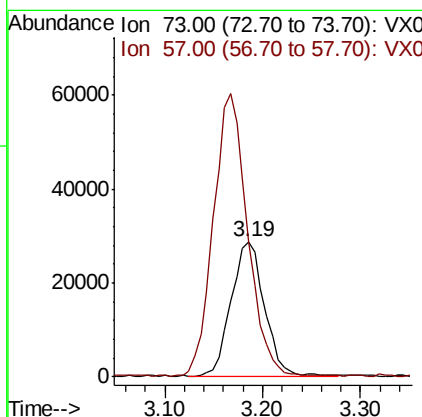
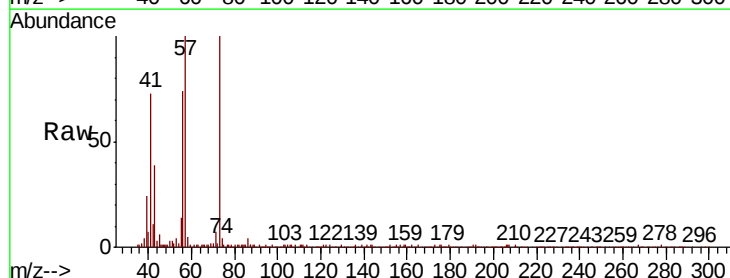
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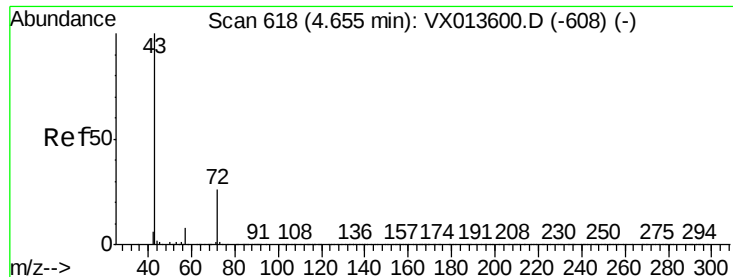
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#19
Methyl tert-butyl Ether
Concen: 3.157 ug/l
RT: 3.19 min Scan# 377
Delta R.T. 0.01 min
Lab File: VX013725.D
Acq: 03 Dec 2019 15:24

Tgt Ion	Ratio	Lower	Upper
73	100		
57	99.7	18.3	27.5#





#25

2-Butanone

Concen: 1.073 ug/l

RT: 4.67 min Scan# 621

Delta R.T. 0.02 min

Lab File: VX013725.D

Acq: 03 Dec 2019 15:24

Instrument :

MSVOA_X

ClientSampleId :

MW-2DL

Tot Ion: 43 Resp: 6182

Ion Ratio Lower Upper

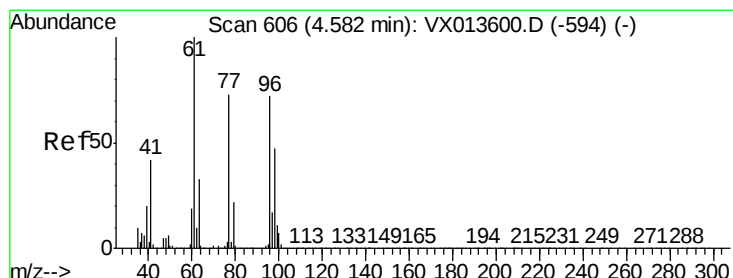
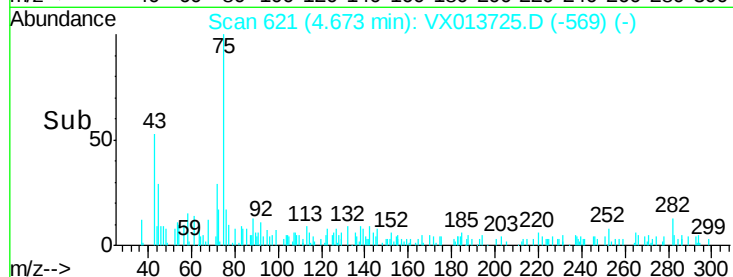
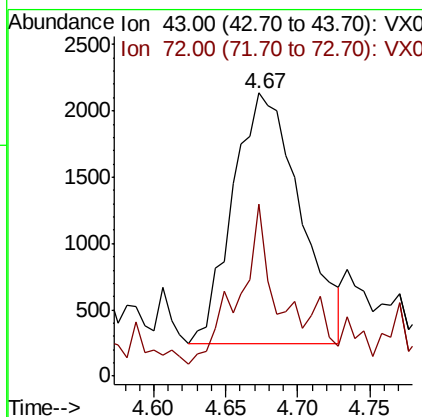
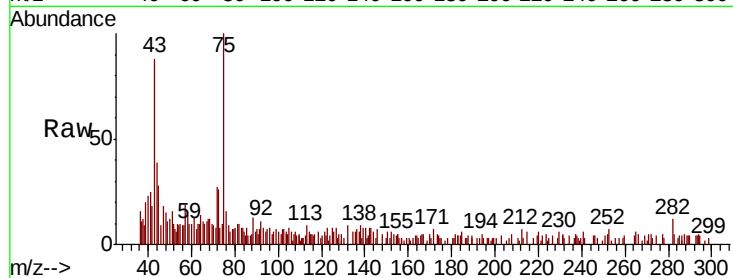
43 100

72 63.6 20.6 31.0#

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#27

cis-1,2-Dichloroethene

Concen: 0.468 ug/l

RT: 4.59 min Scan# 607

Delta R.T. 0.01 min

Lab File: VX013725.D

Acq: 03 Dec 2019 15:24

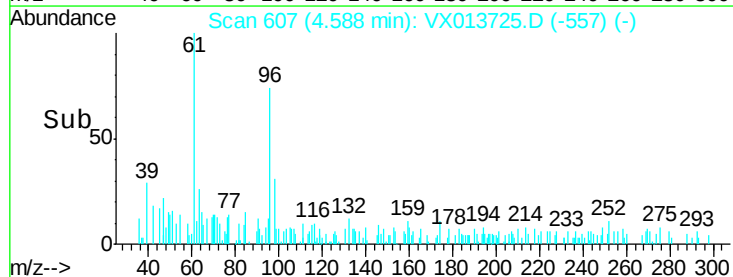
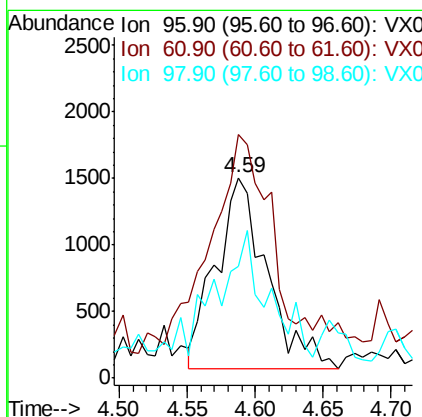
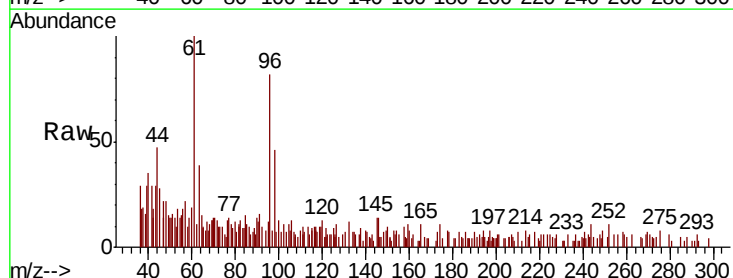
Tgt Ion: 96 Resp: 3768

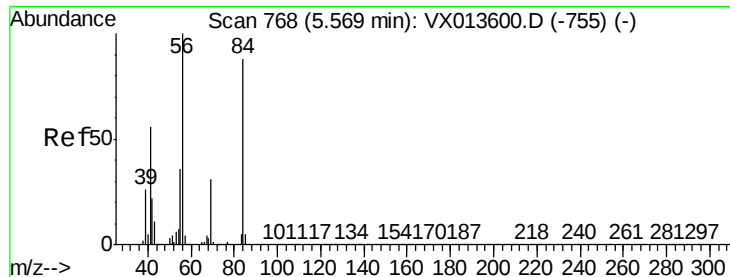
Ion Ratio Lower Upper

96 100

61 138.0 0.0 286.4

98 88.0 0.0 127.4





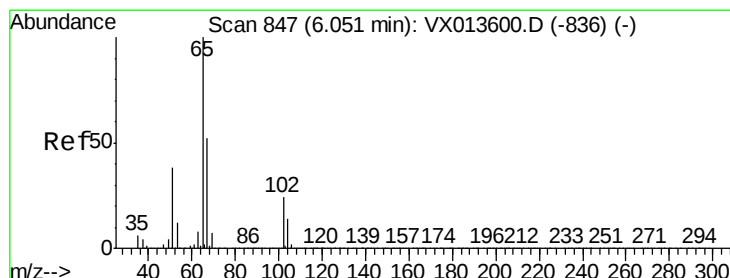
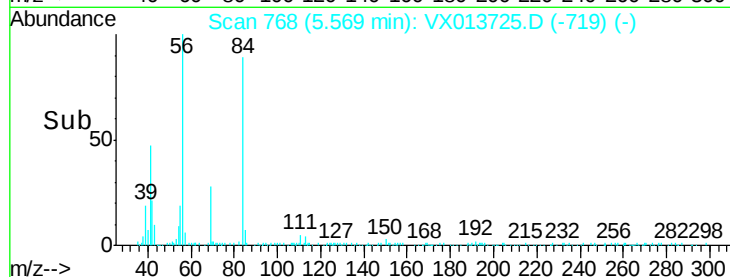
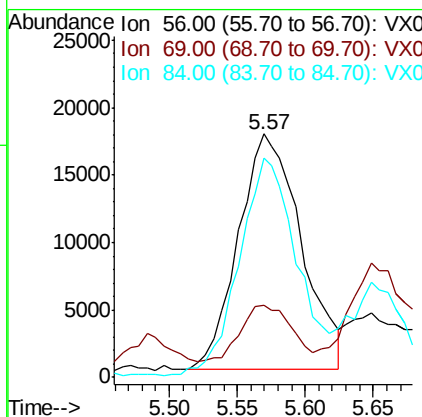
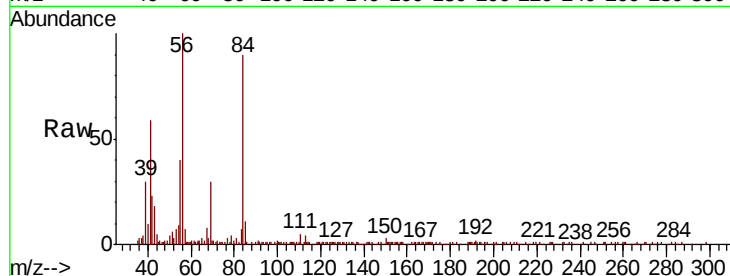
#31
Cyclohexane
Concen: 4.859 ug/l
RT: 5.57 min Scan# 768
Delta R.T. 0.00 min
Lab File: VX013725.D
Acq: 03 Dec 2019 15:24

Instrument :
MSVOA_X
ClientSampleId :
MW-2DL

Tot Ion	Ratio	Lower	Upper
56	100		
69	22.8	24.6	36.8#
84	89.0	70.0	105.0

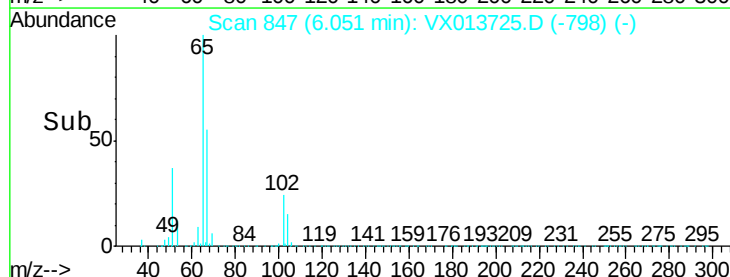
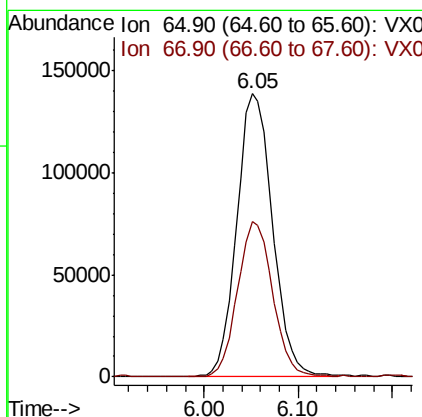
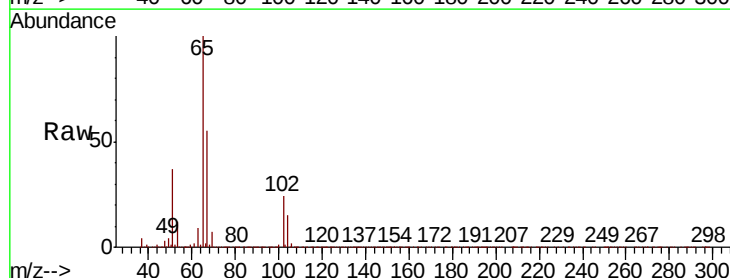
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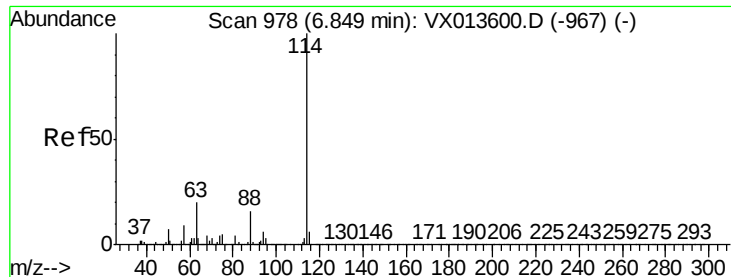
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#33
1,2-Dichloroethane-d4
Concen: 46.751 ug/l
RT: 6.05 min Scan# 847
Delta R.T. 0.00 min
Lab File: VX013725.D
Acq: 03 Dec 2019 15:24

Tgt Ion	Ratio	Lower	Upper
65	100		
67	53.9	0.0	104.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX013725.D

Acq: 03 Dec 2019 15:24

Instrument :

MSVOA_X

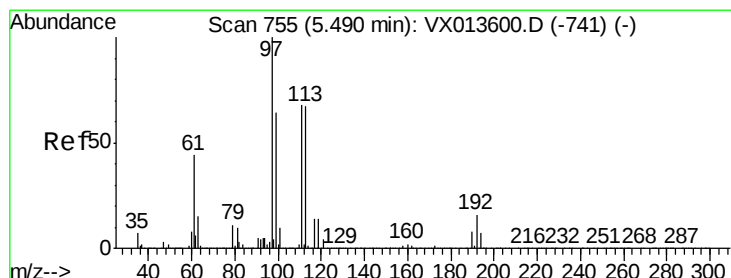
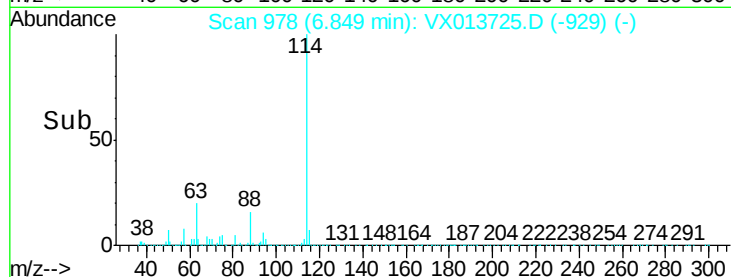
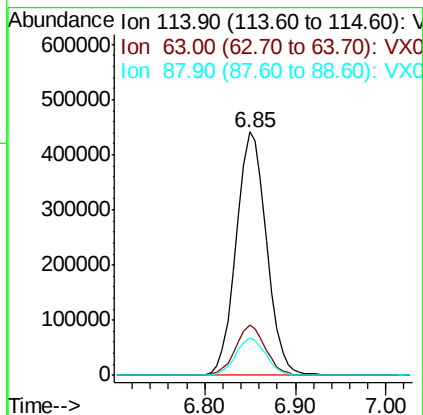
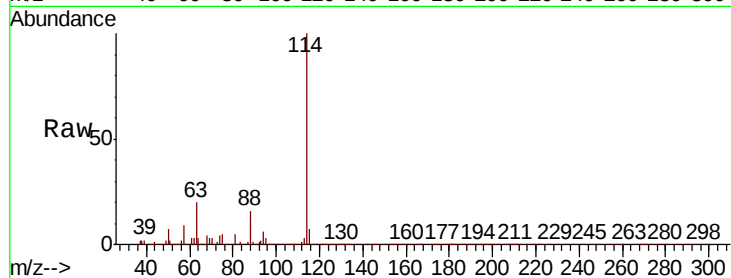
ClientSampled :

MW-2DL

Tot Ion:	114	Resp:	1027665
Ion Ratio	Lower	Upper	
114	100		
63	20.4	0.0	39.6
88	15.5	0.0	31.4

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#35

Dibromofluoromethane

Concen: 47.801 ug/l

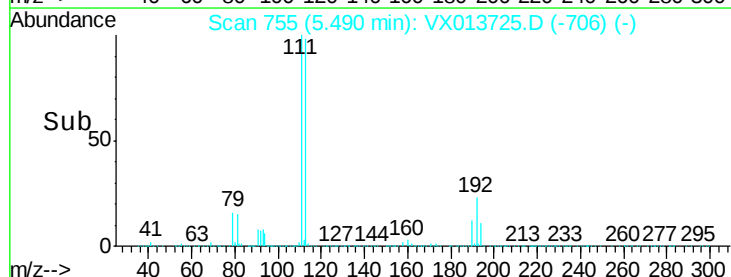
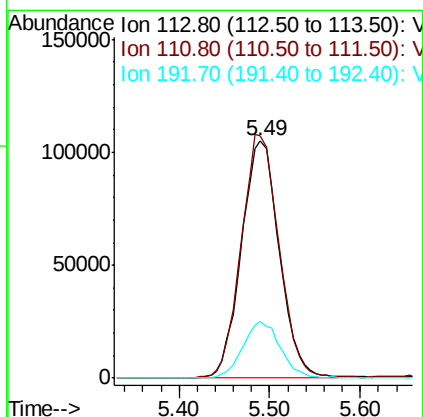
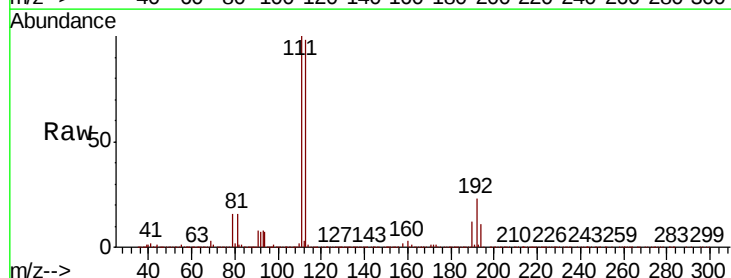
RT: 5.49 min Scan# 755

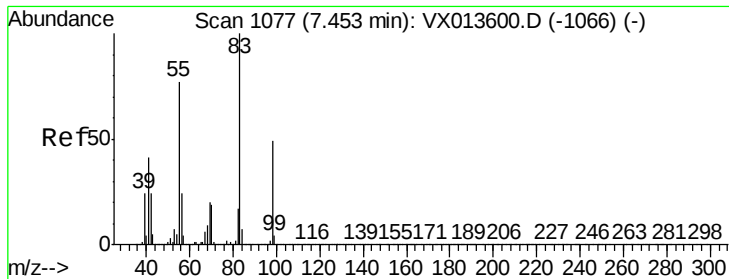
Delta R.T. 0.00 min

Lab File: VX013725.D

Acq: 03 Dec 2019 15:24

Tgt Ion:	113	Resp:	303690
Ion Ratio	Lower	Upper	
113	100		
111	103.2	83.6	125.4
192	23.9	19.2	28.8





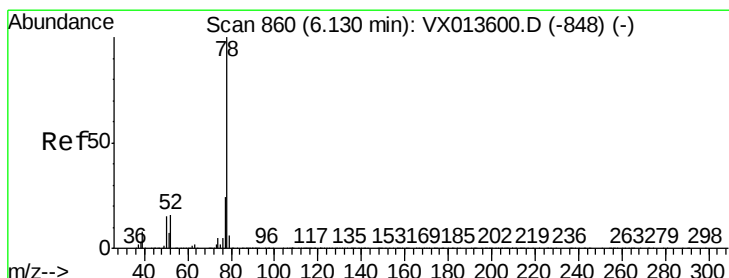
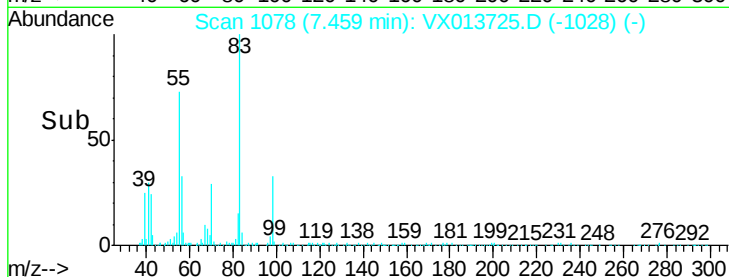
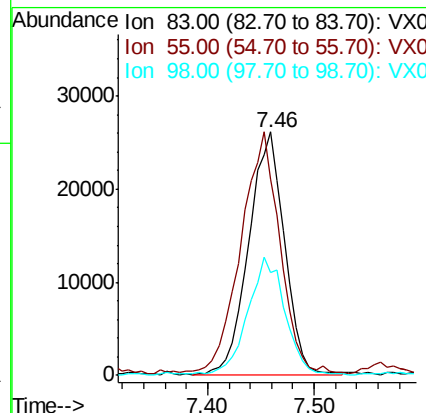
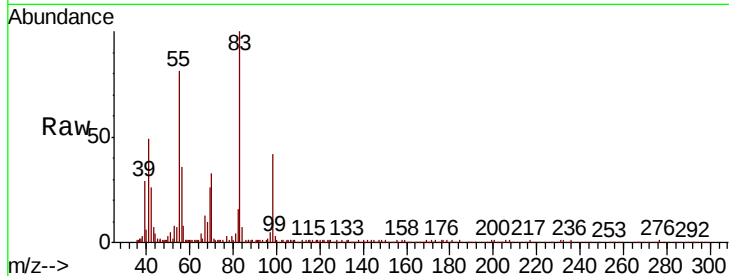
#39
Methvlcvclohexane
Concen: 5.385 ug/l
RT: 7.46 min Scan# 1078
Delta R.T. 0.01 min
Lab File: VX013725.D
Acq: 03 Dec 2019 15:24

Instrument :
MSVOA_X
ClientSampleId :
MW-2DL

Tot Ion	Ratio	Lower	Upper
83	100		
55	79.3	61.9	92.9
98	41.8	39.4	59.0

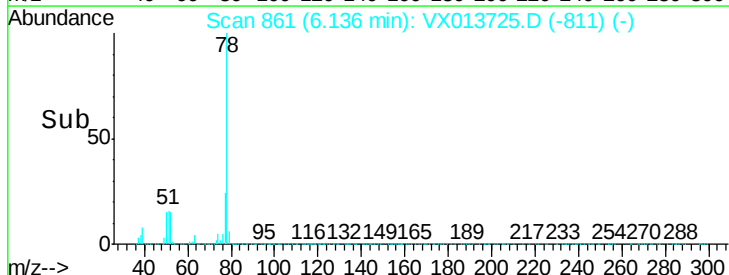
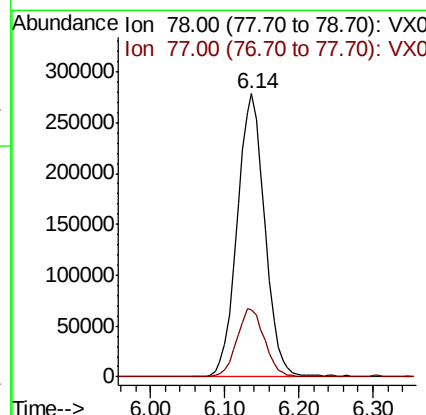
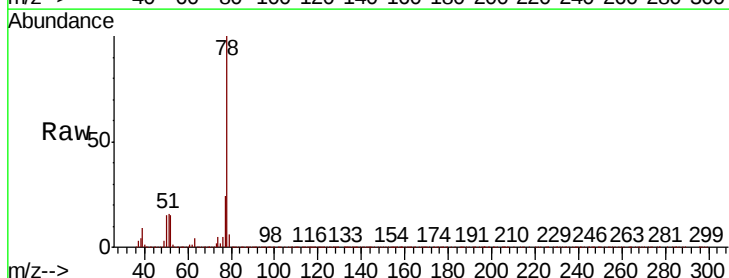
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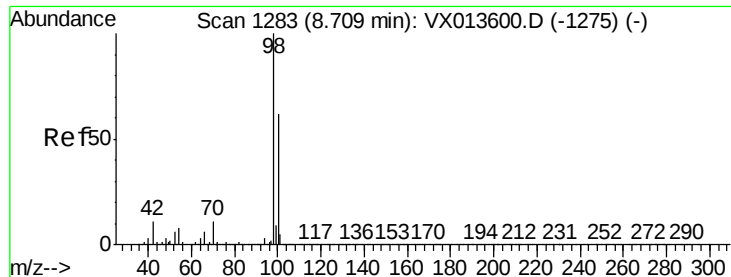
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#40
Benzene
Concen: 25.452 ug/l
RT: 6.14 min Scan# 861
Delta R.T. 0.01 min
Lab File: VX013725.D
Acq: 03 Dec 2019 15:24

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.6	19.0	28.4





#50

Toluene-d8

Concen: 49.440 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX013725.D

Acq: 03 Dec 2019 15:24

Instrument :

MSVOA_X

ClientSampleId :

MW-2DL

Tot Ion: 98 Resp: 1223774

Ion Ratio Lower Upper

98 100

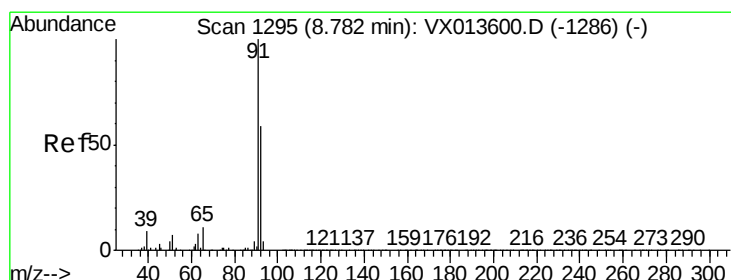
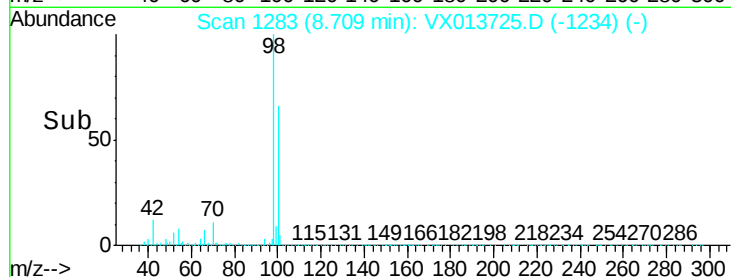
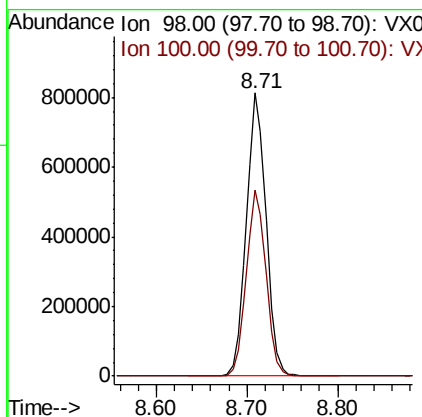
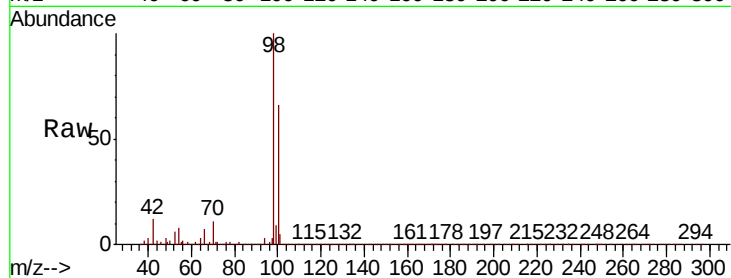
100 65.6 53.1 79.7

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#52

Toluene

Concen: 3.045 ug/l

RT: 8.78 min Scan# 1295

Delta R.T. 0.00 min

Lab File: VX013725.D

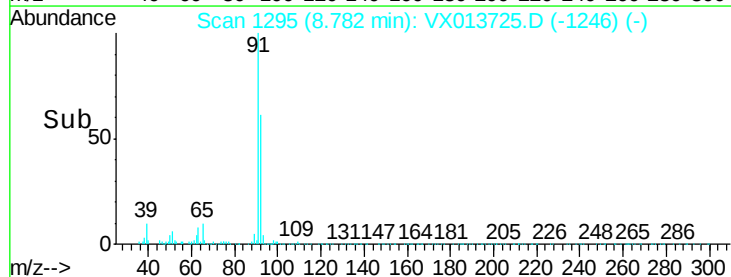
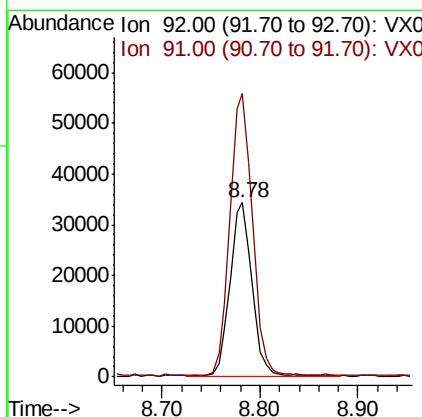
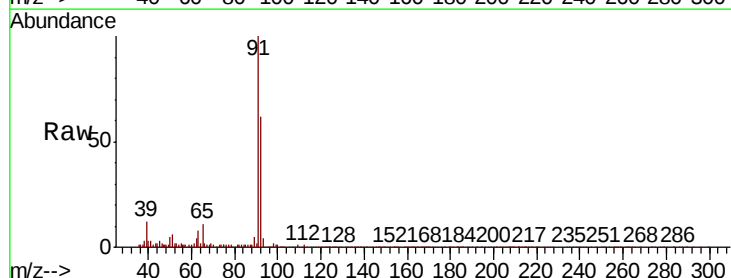
Acq: 03 Dec 2019 15:24

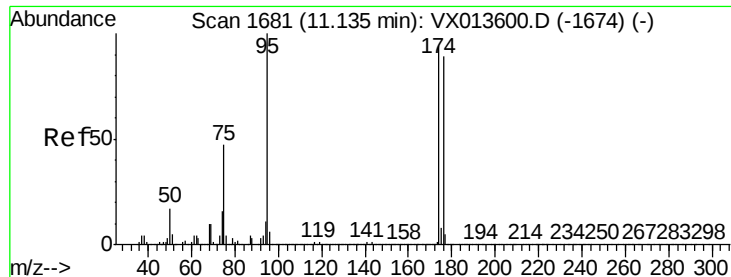
Tgt Ion: 92 Resp: 53750

Ion Ratio Lower Upper

92 100

91 165.4 136.2 204.2





#62

4-Bromofluorobenzene

Concen: 47.847 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX013725.D

Acq: 03 Dec 2019 15:24

Instrument :

MSVOA_X

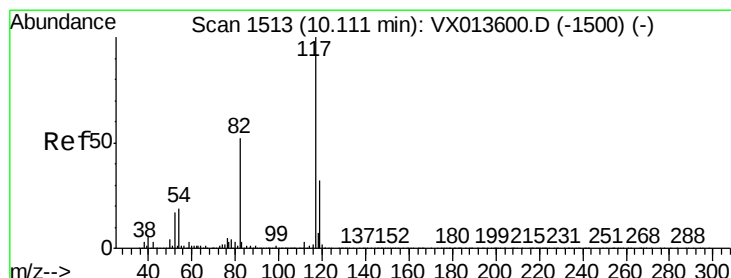
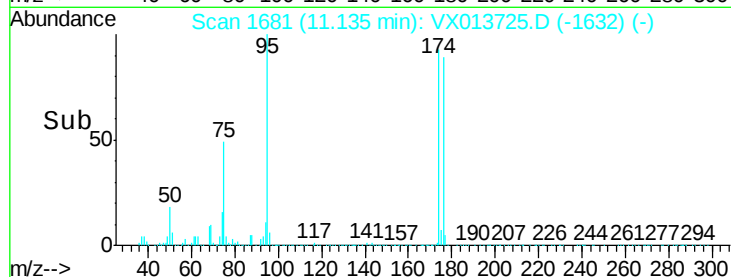
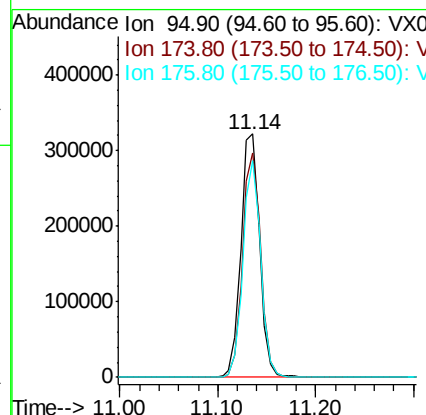
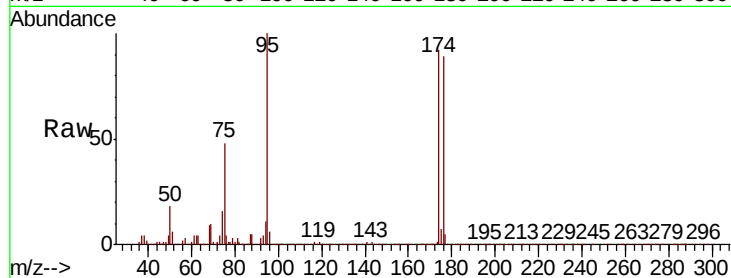
ClientSampleId :

MW-2DL

Tot Ion:	95	Resp:	427075
Ion Ratio	Lower	Upper	
95	100		
174	89.7	0.0	180.0
176	84.6	0.0	173.6

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#63

Chlorobenzene-d5

Concen: 50.000 ug/l

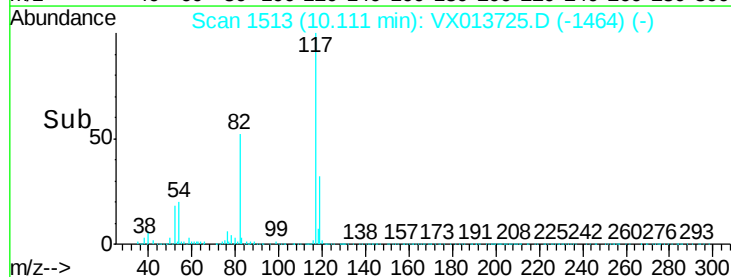
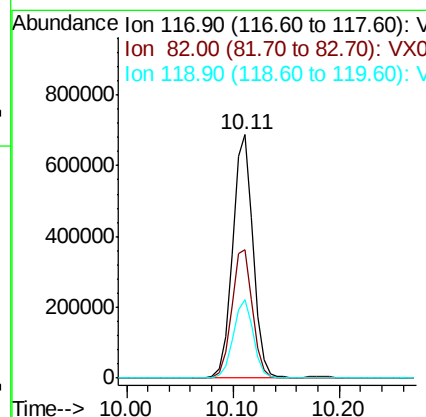
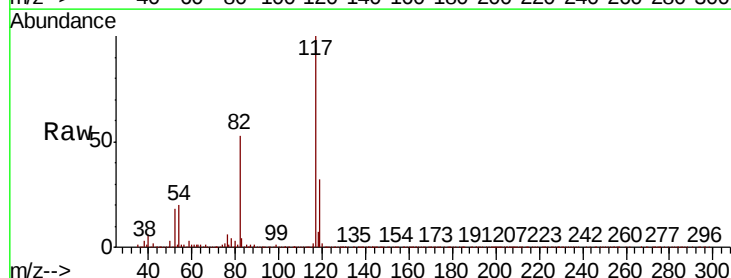
RT: 10.11 min Scan# 1513

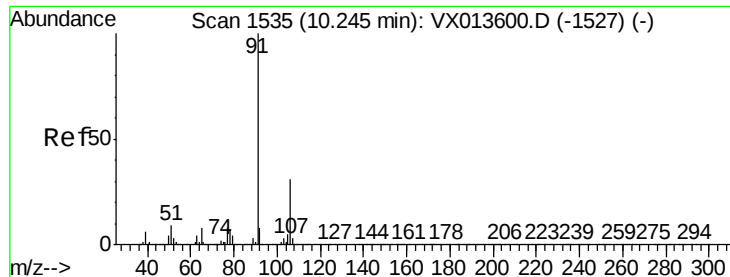
Delta R.T. 0.00 min

Lab File: VX013725.D

Acq: 03 Dec 2019 15:24

Tgt Ion:	117	Resp:	920895
Ion Ratio	Lower	Upper	
117	100		
82	52.6	41.8	62.8
119	32.5	25.8	38.8





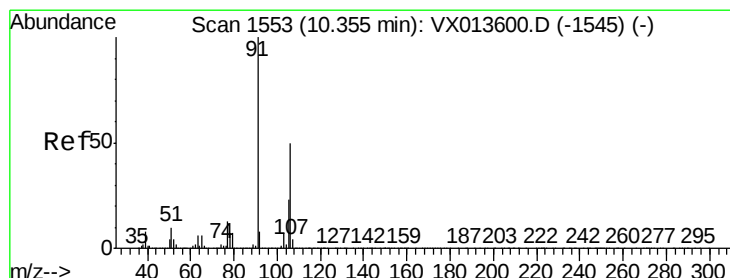
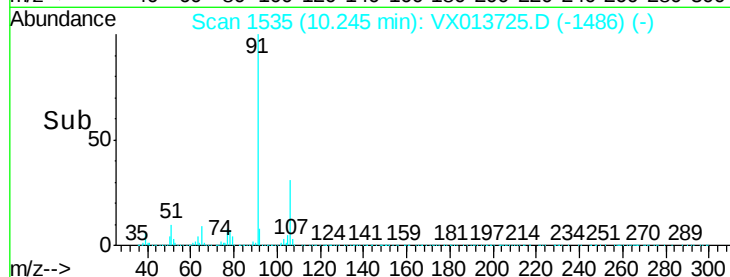
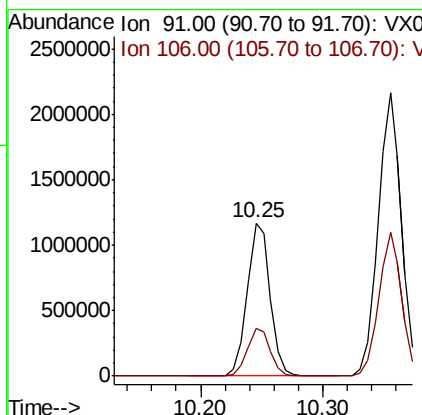
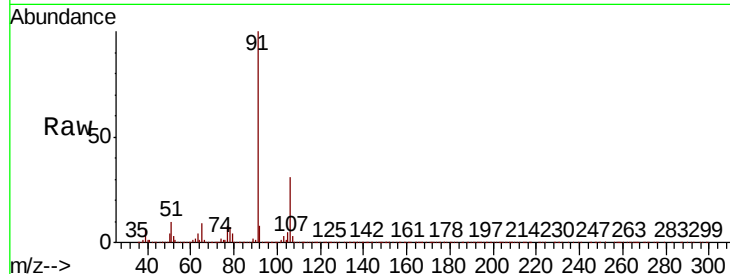
#67
Ethyl Benzene
Concen: 46.219 ug/l
RT: 10.25 min Scan# 1535
Delta R.T. 0.00 min
Lab File: VX013725.D
Acq: 03 Dec 2019 15:24

Instrument :
MSVOA_X
ClientSampleId :
MW-2DL

Tot Ion: 91 Resp: 1518533
Ion Ratio Lower Upper
91 100
106 31.4 24.5 36.7

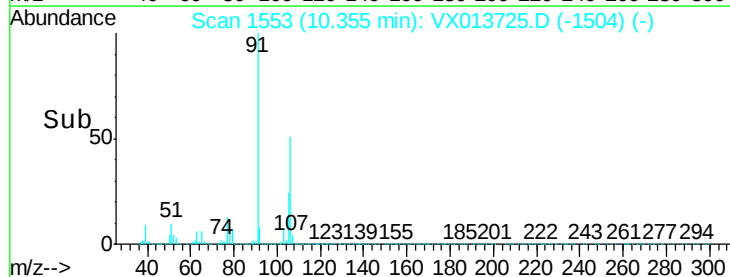
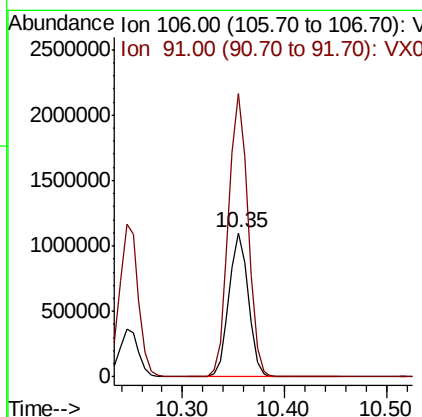
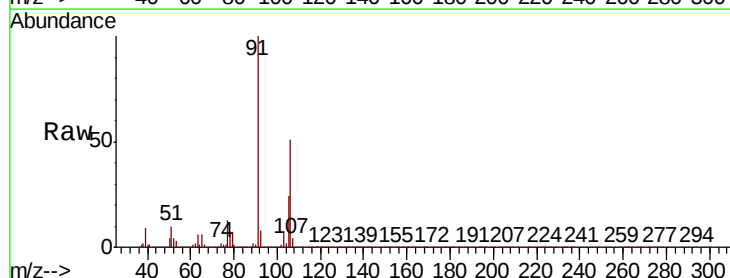
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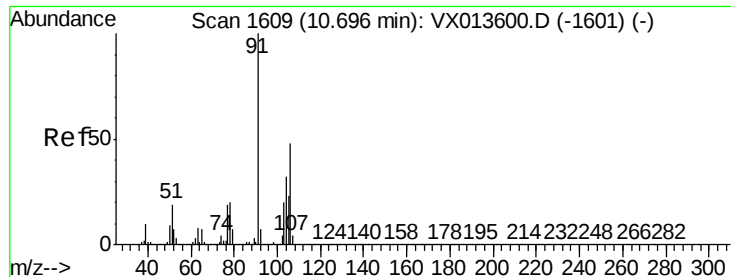
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#68
m/p-Xylenes
Concen: 114.130 ug/l
RT: 10.35 min Scan# 1553
Delta R.T. 0.00 min
Lab File: VX013725.D
Acq: 03 Dec 2019 15:24

Tgt Ion: 106 Resp: 1435604
Ion Ratio Lower Upper
106 100
91 198.4 159.0 238.4





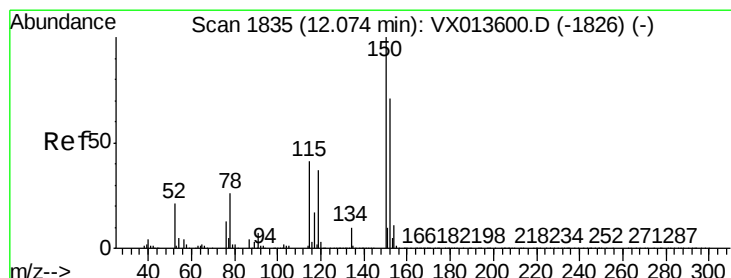
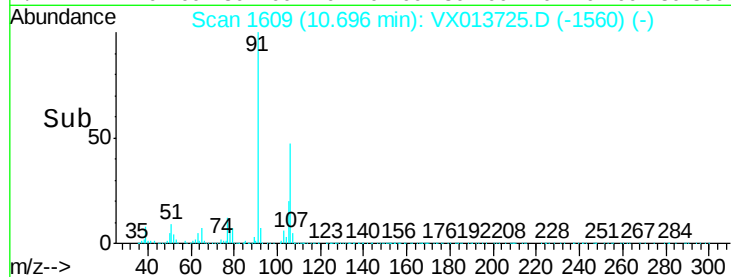
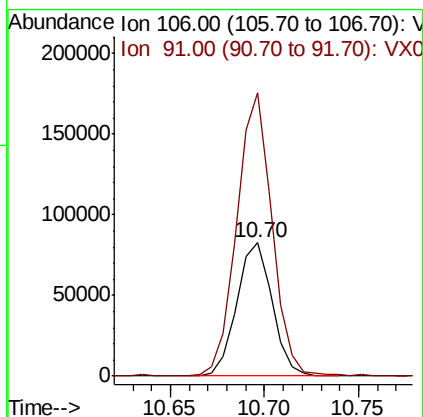
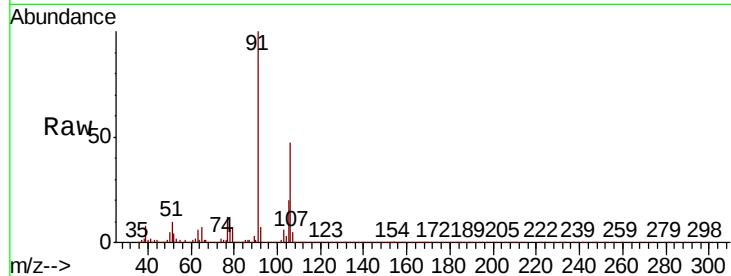
#69
o-Xylene
Concen: 8.721 ug/l
RT: 10.70 min Scan# 1609
Delta R.T. 0.00 min
Lab File: VX013725.D
Acq: 03 Dec 2019 15:24

Instrument :
MSVOA_X
ClientSampleId :
MW-2DL

Tot Ion	Ratio	Lower	Upper
106	100		
91	211.2	104.1	312.2

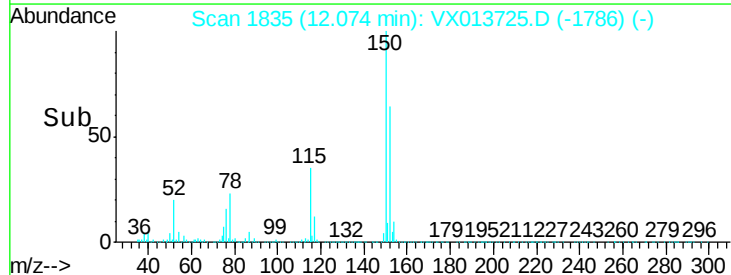
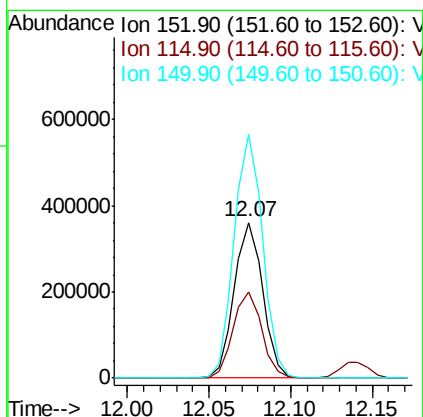
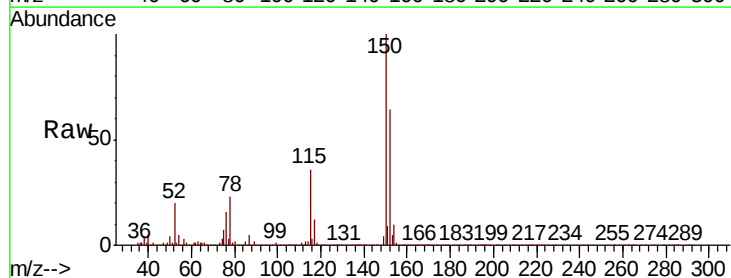
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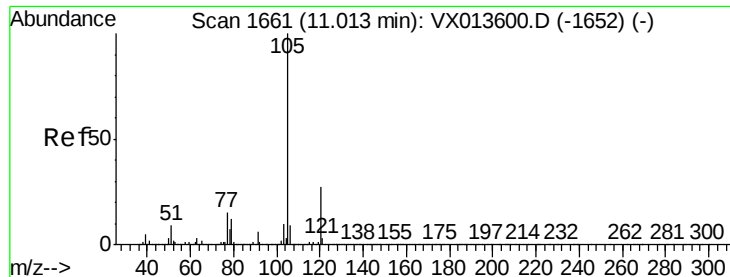
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#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX013725.D
Acq: 03 Dec 2019 15:24

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.4	38.4	115.1
150	157.1	0.0	346.8





#73

Isopropylbenzene

Concen: 6.917 ug/l

RT: 11.01 min Scan# 1661

Delta R.T. 0.00 min

Lab File: VX013725.D

Acq: 03 Dec 2019 15:24

Instrument :

MSVOA_X

ClientSampleId :

MW-2DL

Tot Ion: 105 Resp: 213449

Ion Ratio Lower Upper

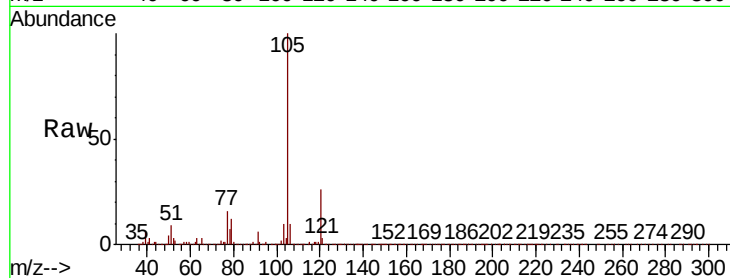
105 100

120 27.1 13.5 40.5

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.01

200000

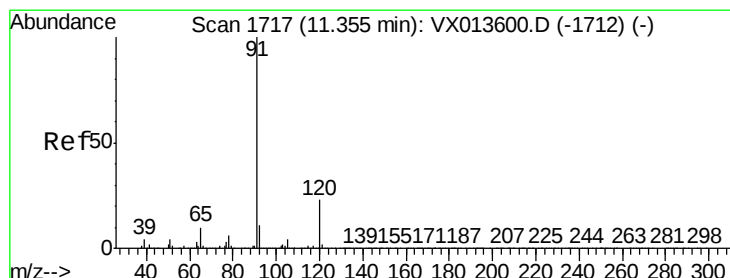
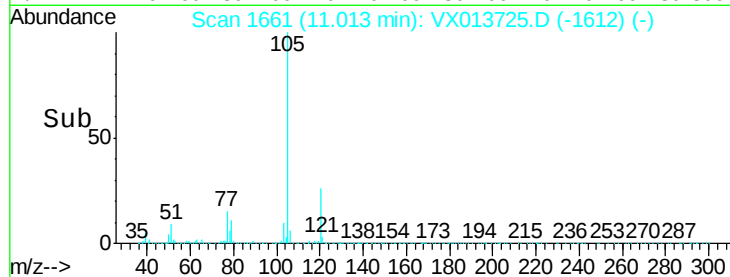
150000

100000

50000

0

Time-->



#78

n-propylbenzene

Concen: 11.774 ug/l

RT: 11.35 min Scan# 1717

Delta R.T. 0.00 min

Lab File: VX013725.D

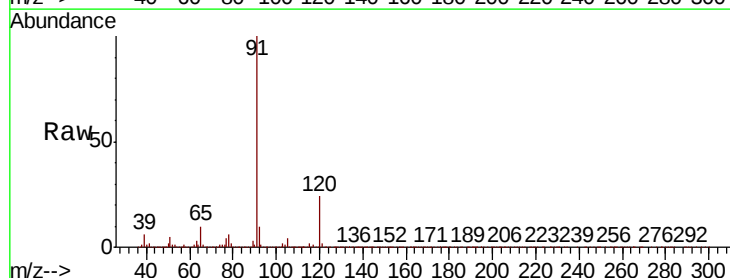
Acq: 03 Dec 2019 15:24

Tgt Ion: 91 Resp: 405608

Ion Ratio Lower Upper

91 100

120 23.3 11.8 35.3



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V

11.35

400000

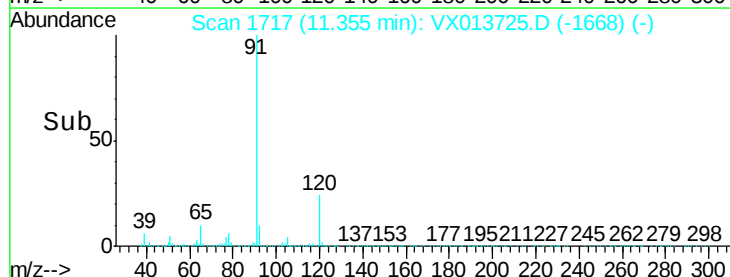
300000

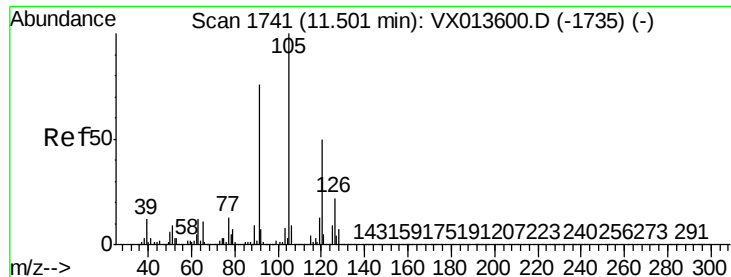
200000

100000

0

Time-->





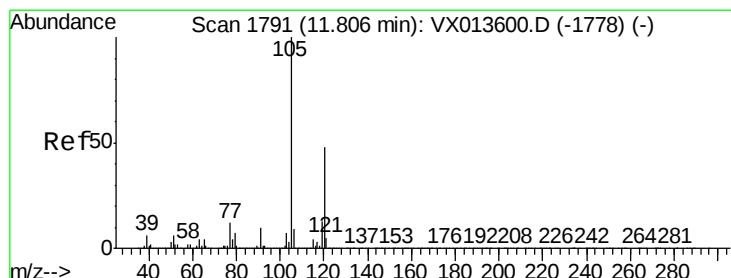
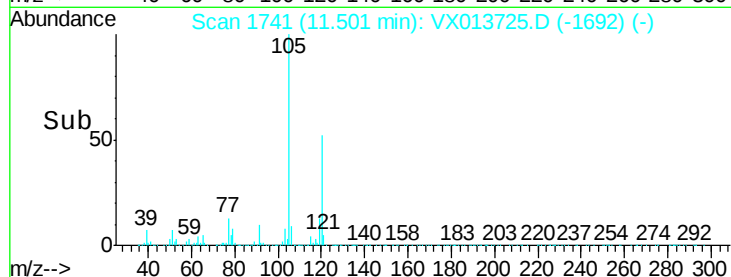
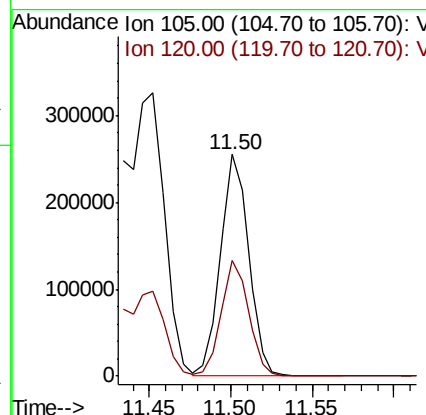
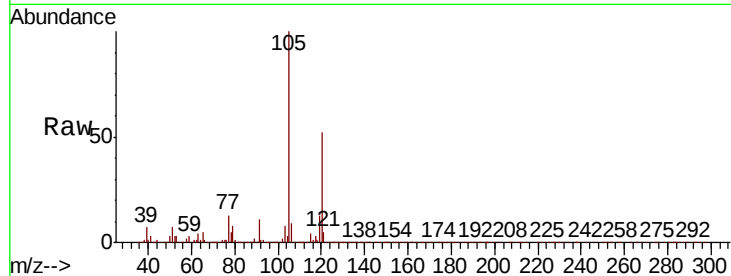
#80
 1,3,5-Trimethylbenzene
 Concen: 12.203 ug/l
 RT: 11.50 min Scan# 1741
 Delta R.T. 0.00 min
 Lab File: VX013725.D
 Acq: 03 Dec 2019 15:24

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-2DL

Tot Ion	Ratio	Lower	Upper
105	100		
120	50.7	25.3	75.9

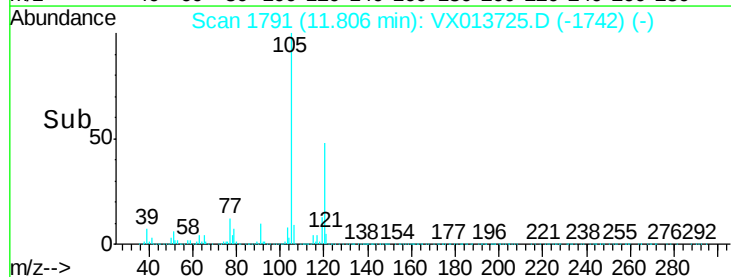
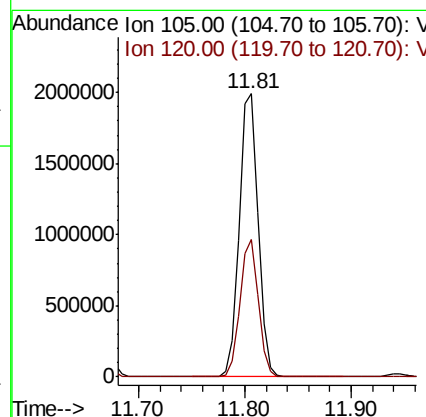
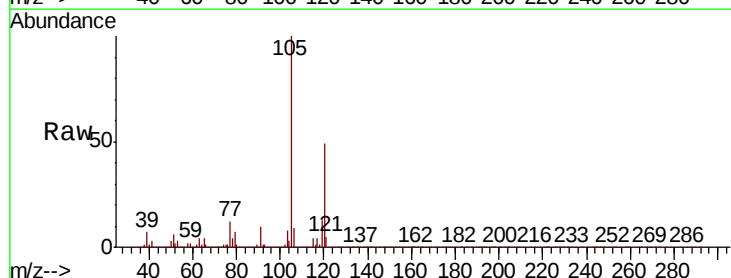
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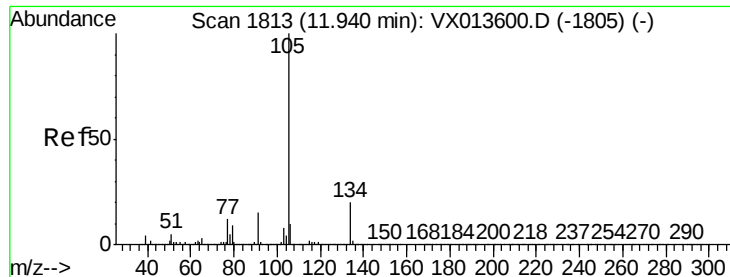
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#84
 1,2,4-Trimethylbenzene
 Concen: 96.560 ug/l
 RT: 11.81 min Scan# 1791
 Delta R.T. 0.00 min
 Lab File: VX013725.D
 Acq: 03 Dec 2019 15:24

Tgt Ion	Ratio	Lower	Upper
105	100		
120	47.2	23.1	69.3





#85

sec-Butylbenzene

Concen: 1.127 ug/l m

RT: 11.94 min Scan# 1813

Delta R.T. 0.00 min

Lab File: VX013725.D

Acq: 03 Dec 2019 15:24

Instrument :

MSVOA_X

ClientSampleId :

MW-2DL

Tot Ion:105 Resp: 33103

Ion Ratio Lower Upper

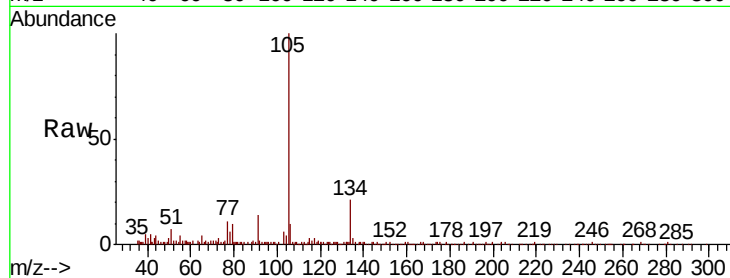
105 100

134 1.0 10.4 31.2#

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

11.94

25000

20000

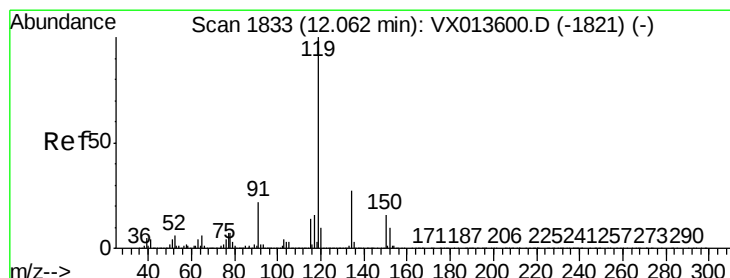
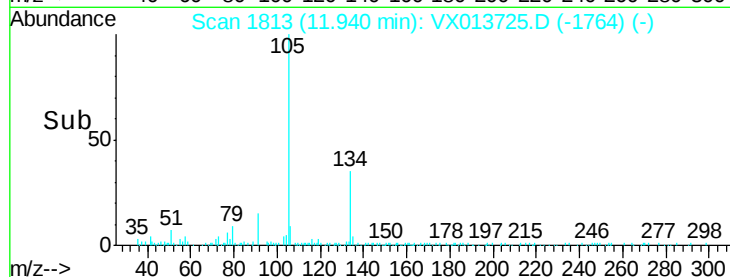
15000

10000

5000

0

Time-->



#86

p-Isopropyltoluene

Concen: 0.401 ug/l

RT: 12.06 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VX013725.D

Acq: 03 Dec 2019 15:24

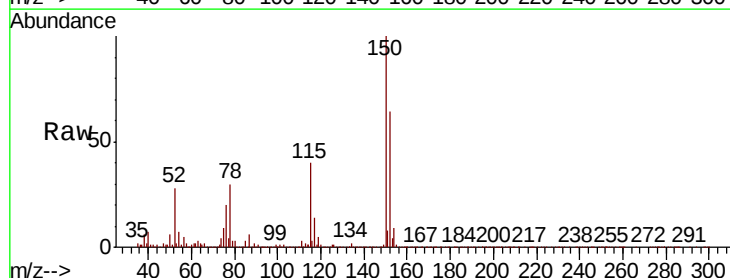
Tgt Ion:119 Resp: 10957

Ion Ratio Lower Upper

119 100

134 29.8 13.3 39.9

91 0.0 11.3 33.8#



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): V

12.06

60000

50000

40000

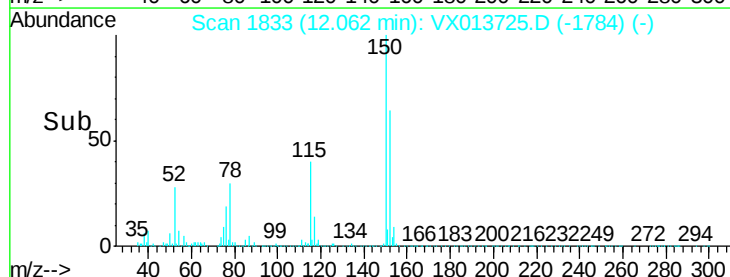
30000

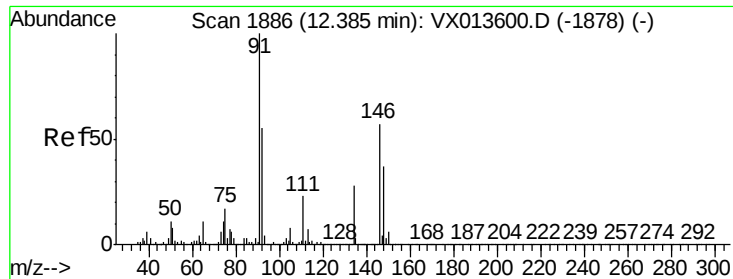
20000

10000

0

Time-->





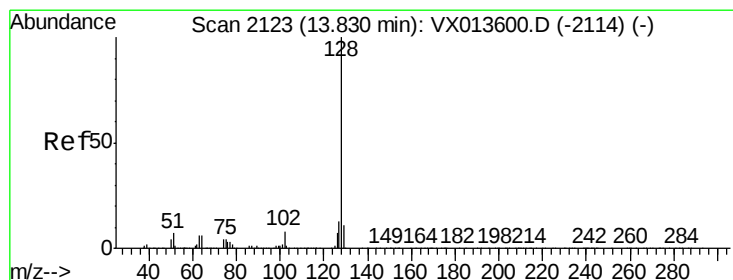
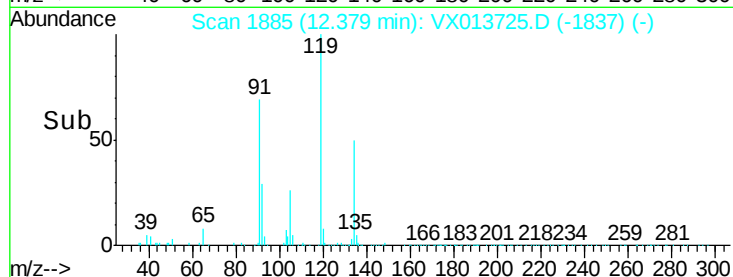
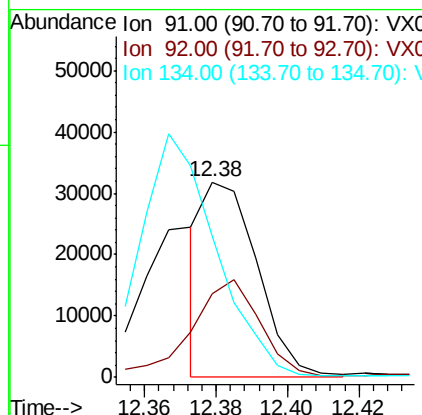
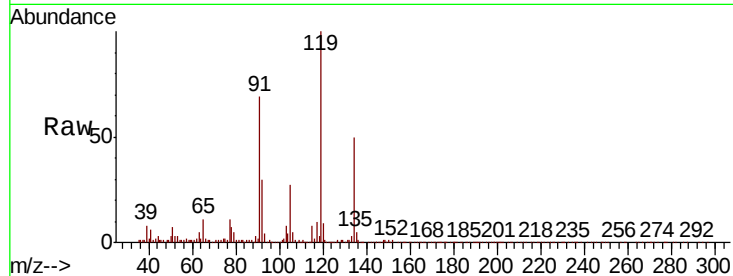
#89
n-Butylbenzene
Concen: 1.439 ug/l m
RT: 12.38 min Scan# 1885
Delta R.T. -0.01 min
Lab File: VX013725.D
Acq: 03 Dec 2019 15:24

Instrument :
MSVOA_X
ClientSampled :
MW-2DL

Tot Ion	Ratio	Lower	Upper
91	100		
92	62.7	27.4	82.2
134	172.3	13.5	40.4#

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#95
Naphthalene
Concen: 38.871 ug/l
RT: 13.83 min Scan# 2123
Delta R.T. 0.00 min
Lab File: VX013725.D
Acq: 03 Dec 2019 15:24

Tgt Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.3	15.5
129	11.2	8.7	13.1

