

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091820\
 Data File : VX018488.D
 Acq On : 18 Sep 2020 13:29
 Operator : JC/SP
 Sample : L4050-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 200916080-01-VOA

Manual Integrations
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 9/21/2020 11:50:47 AM

Quant Time: Sep 21 07:00:36 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X090420W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 04 12:13:41 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.98	128	75980	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.83	114	391884	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	370903	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	181034	30.20	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.67%
60) 4-Bromofluorobenzene	11.12	95	180573	28.09	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	93.63%
63) Toluene-d8	8.70	98	466327	28.53	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	95.10%

Target Compounds

					Ovalue
8) Diethyl Ether	2.17	74	7028	2.925 ug/l	87
15) Acetone	2.42	58	123762	199.672 ug/l	79
23) tert-Butyl Alcohol	3.01	59	5328504	5393.721 ug/l #	100
24) Methyl tert-Butyl Ether	3.17	73	32048	2.359 ug/l #	83
30) 2-Butanone	4.64	43	877908	268.030 ug/l	96
34) Benzene	6.12	78	61675	3.612 ug/l	97
45) 1,4-Dioxane	7.72	88	9505	108.396 ug/l #	95
58) 4-Methyl-2-Pentanone	8.62	43	23907m	3.748 ug/l	
59) 2-Hexanone	9.48	43	6043m	1.251 ug/l	
62) Toluene	8.76	91	78523	4.207 ug/l	98
64) Chlorobenzene	10.12	112	14214	1.185 ug/l	99
66) Ethyl Benzene	10.24	91	43965	2.132 ug/l	99
67) m/p-Xylenes	10.34	106	67793	8.595 ug/l	97
68) o-Xylene	10.68	106	40935	5.492 ug/l	98
70) Isopropylbenzene	11.00	105	5165	0.249 ug/l	90
76) 1,3,5-Trimethylbenzene	11.49	105	13979	0.774 ug/l	97
80) 1,2,4-Trimethylbenzene	11.79	105	47004	2.632 ug/l	95
82) p-Isopropyltoluene	12.05	119	50525	2.667 ug/l	97
84) 1,4-Dichlorobenzene	12.08	146	41875	4.125 ug/l	97
87) 1,2-Dichlorobenzene	12.37	146	3322	0.349 ug/l	96
91) Naphthalene	13.82	128	714423	35.592 ug/l	99

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

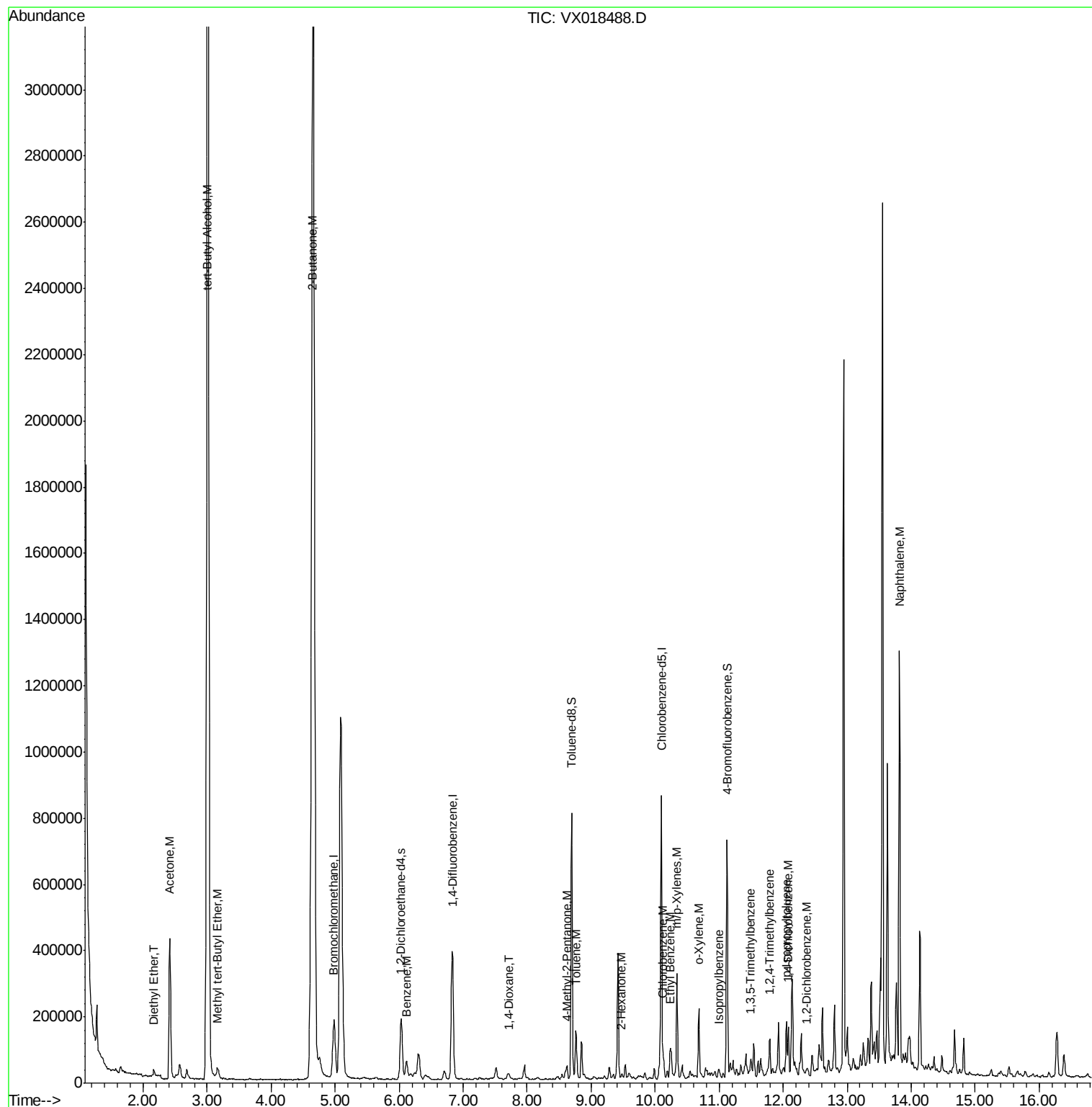
Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091820\
Data File : VX018488.D
Acq On : 18 Sep 2020 13:29
Operator : JC/SP
Sample : L4050-01
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 10 Sample Multiplier: 1

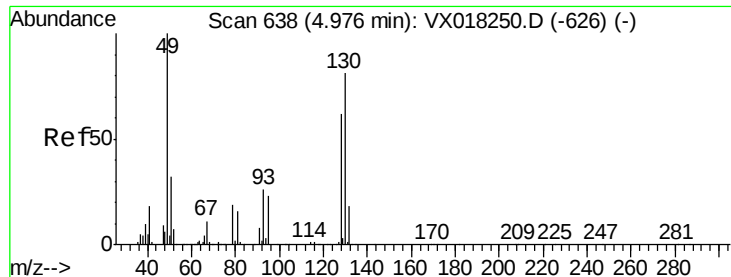
Instrument :
MSVOA_X
ClientSampleId :
200916080-01-VOA

Manual Integrations
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Quant Time: Sep 21 07:00:36 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X090420W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 04 12:13:41 2020
Response via : Initial Calibration





#1

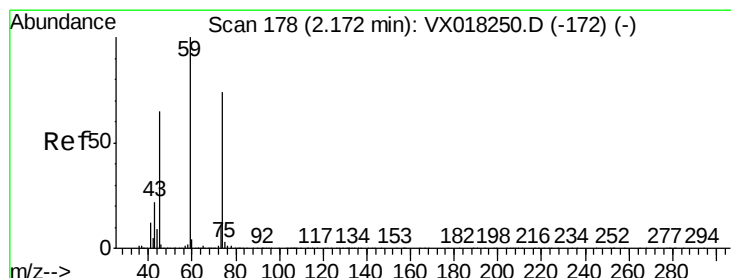
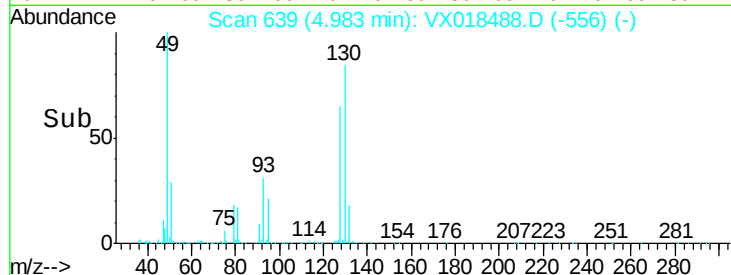
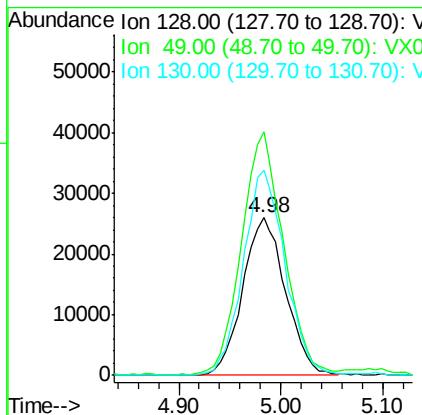
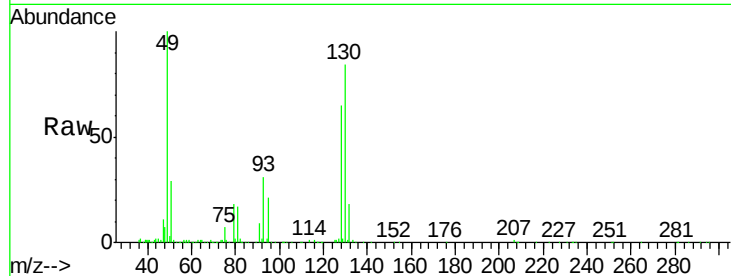
Bromochloromethane
 Concen: 30.000 ug/l
 RT: 4.98 min Scan# 639
 Delta R.T. 0.01 min
 Lab File: VX018488.D
 Acq: 18 Sep 2020 13:29

Instrument :
 MSVOA_X
 ClientSampleId :
 200916080-01-VOA

Tot Ion	Ratio	Lower	Upper
128	100		
49	150.2	0.0	392.0
130	127.1	0.0	320.2

Manual Integrations
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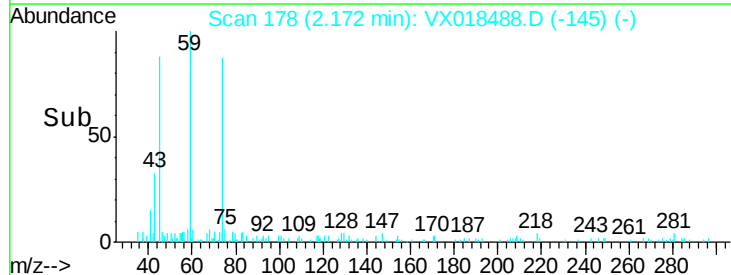
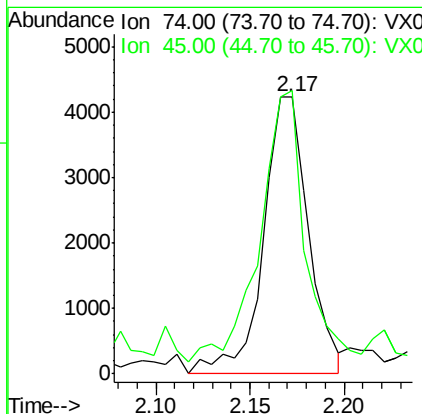
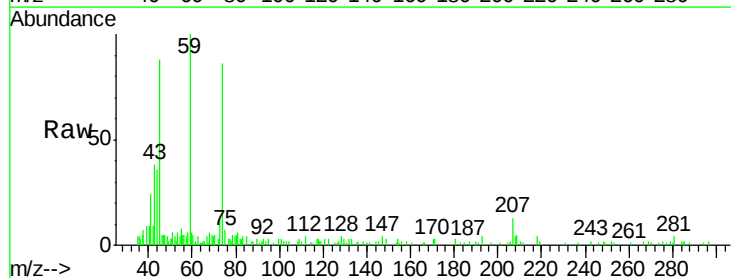
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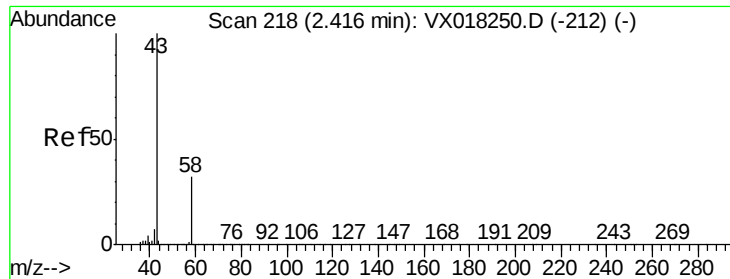


#8

Diethyl Ether
 Concen: 2.925 ug/l
 RT: 2.17 min Scan# 178
 Delta R.T. 0.00 min
 Lab File: VX018488.D
 Acq: 18 Sep 2020 13:29

Tgt Ion	Ratio	Lower	Upper
74	100		
45	89.3	20.5	184.1





#15

Acetone

Concen: 199.672 ug/l

RT: 2.42 min Scan# 218

Delta R.T. 0.00 min

Lab File: VX018488.D

Acq: 18 Sep 2020 13:29

Instrument :

MSVOA_X

ClientSampleId :

200916080-01-VOA

Tot Ion: 58 Resp: 123762

Ion Ratio Lower Upper

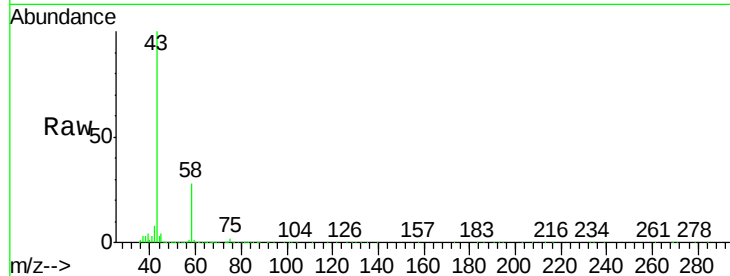
58 100

43 352.9 248.2 372.2

Manual Integrations
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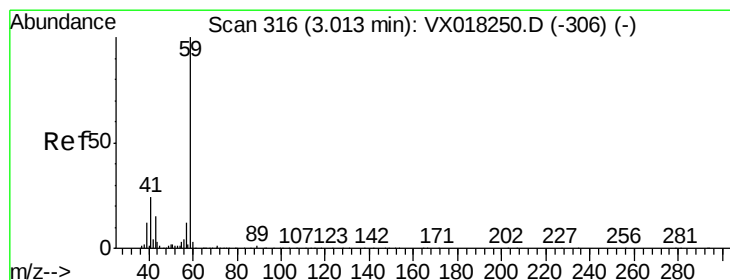
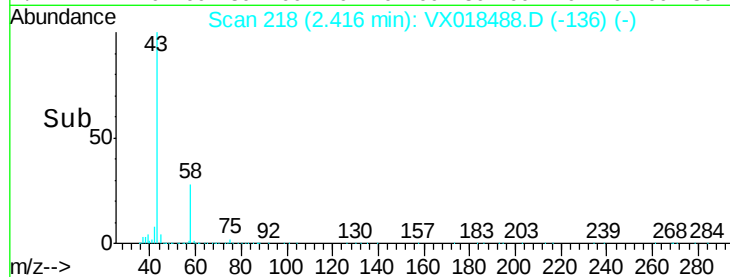
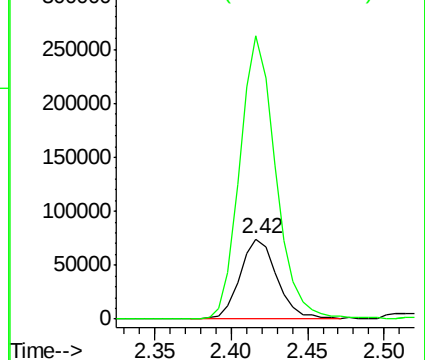
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Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0



#23

tert-Butyl Alcohol

Concen: 5393.721 ug/l

RT: 3.01 min Scan# 315

Delta R.T. -0.01 min

Lab File: VX018488.D

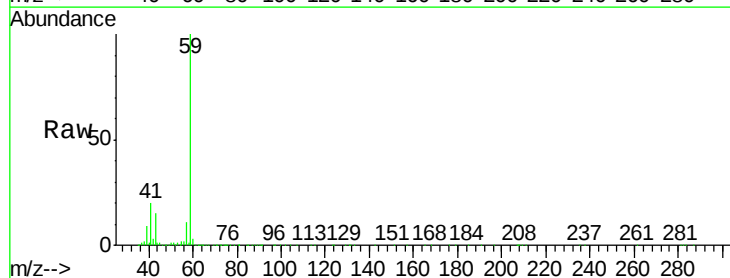
Acq: 18 Sep 2020 13:29

Tgt Ion: 59 Resp: 5328504

Ion Ratio Lower Upper

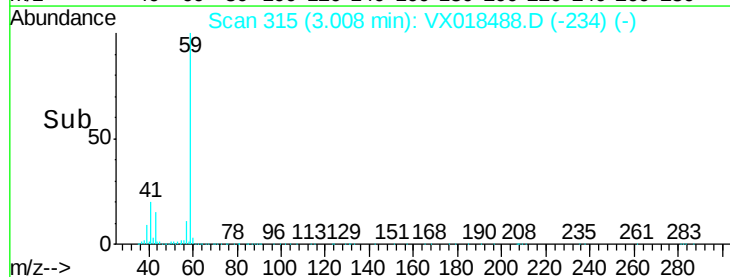
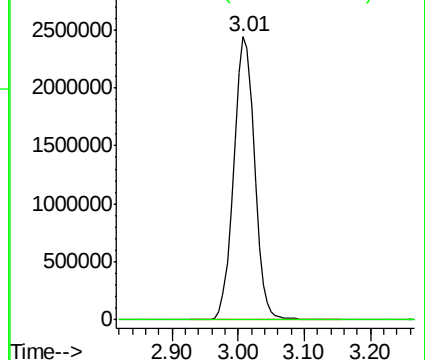
59 100

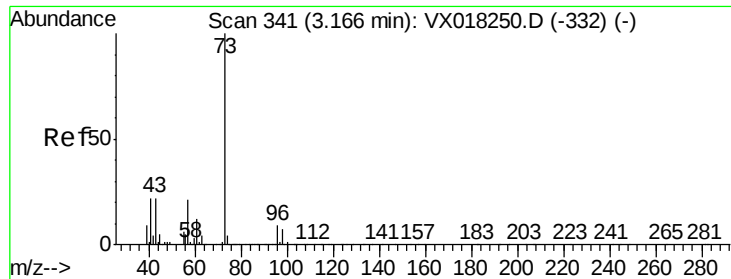
52 0.2 0.4 0.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





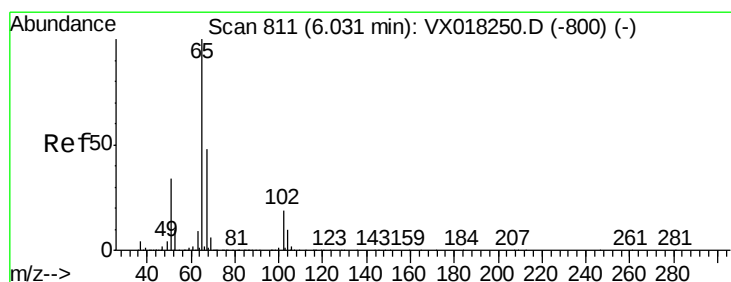
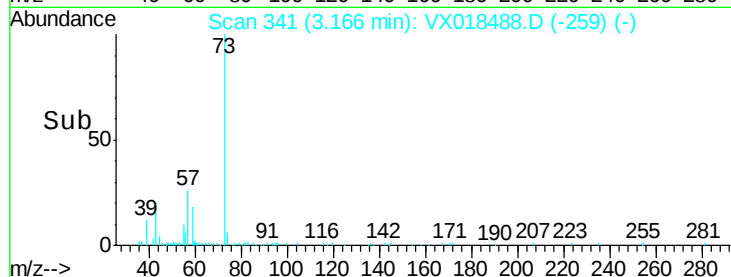
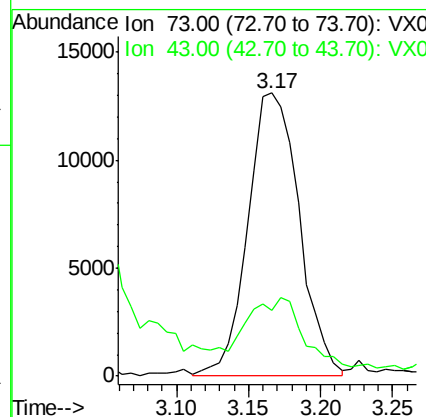
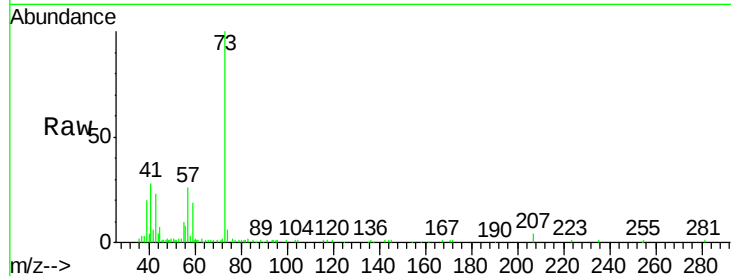
#24
Methvl tert-Butvl Ether
Concen: 2.359 ug/l
RT: 3.17 min Scan# 341
Delta R.T. 0.00 min
Lab File: VX018488.D
Acq: 18 Sep 2020 13:29

Instrument :
MSVOA_X
ClientSampleId :
200916080-01-VOA

Tot Ion: 73 Resp: 32048
Ion Ratio Lower Upper
73 100
43 14.0 17.8 26.6#

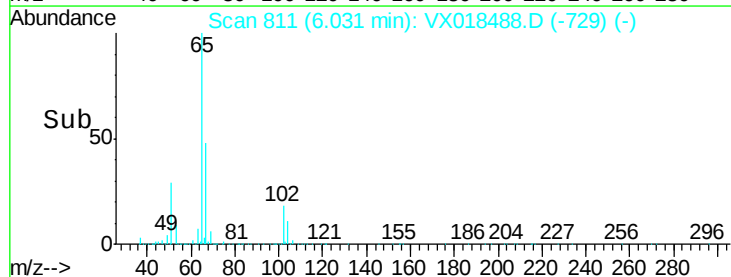
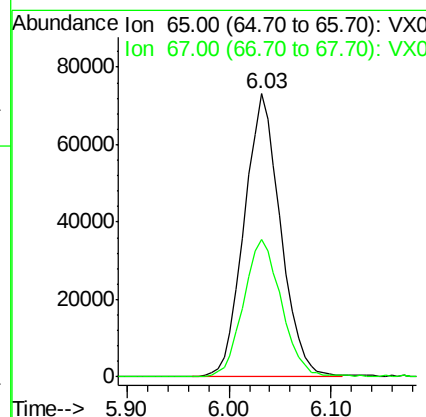
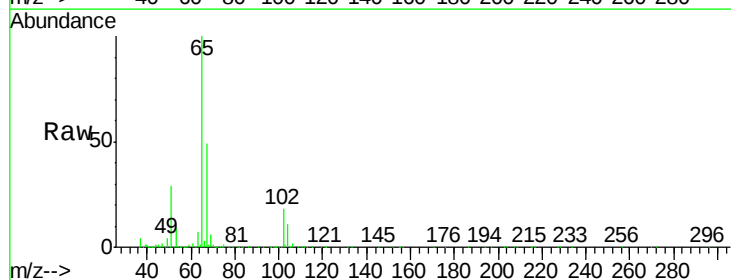
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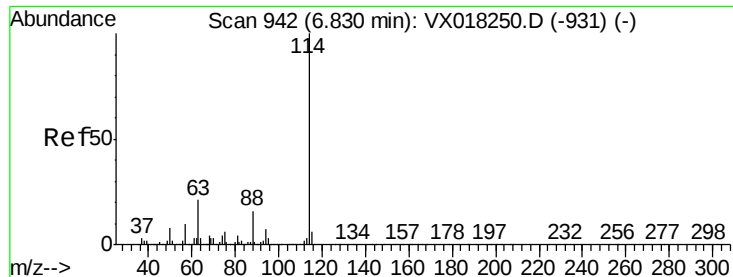
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#27
1,2-Dichloroethane-d4
Concen: 30.201 ug/l
RT: 6.03 min Scan# 811
Delta R.T. 0.00 min
Lab File: VX018488.D
Acq: 18 Sep 2020 13:29

Tgt Ion: 65 Resp: 181034
Ion Ratio Lower Upper
65 100
67 50.4 39.9 59.9





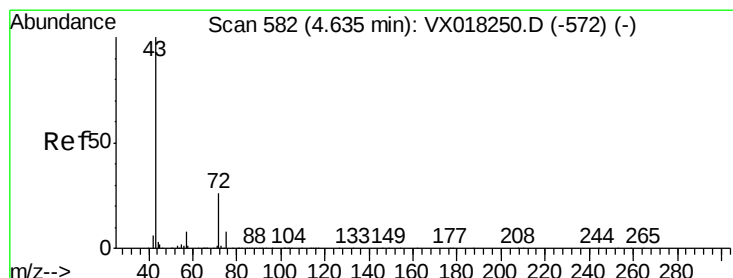
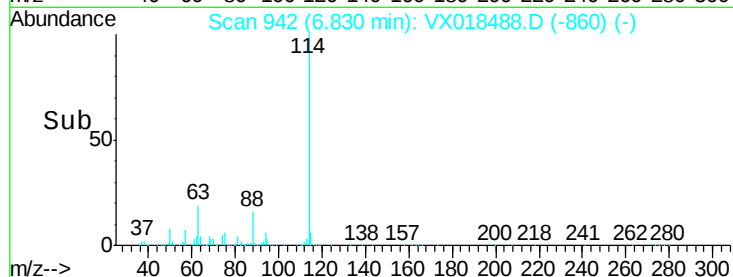
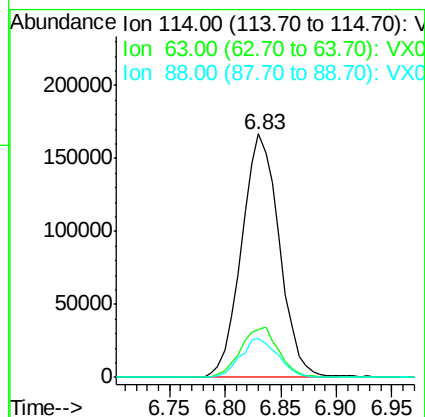
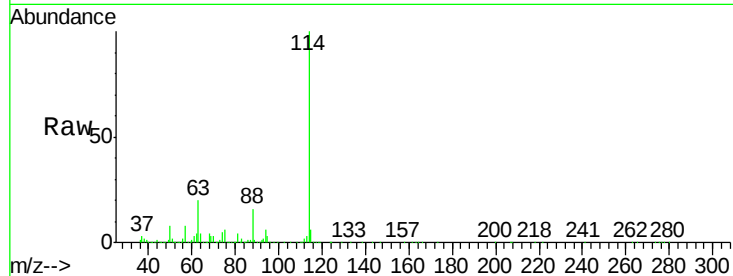
#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. 0.00 min
 Lab File: VX018488.D
 Acq: 18 Sep 2020 13:29

Instrument :
 MSVOA_X
 ClientSampleId :
 200916080-01-VOA

Tot Ion	Ratio	Lower	Upper
114	100		
63	20.8	16.7	25.1
88	15.9	12.6	18.8

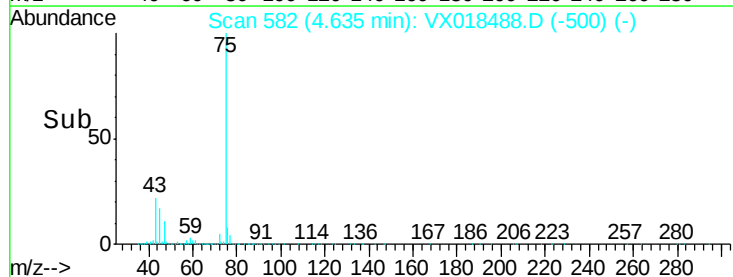
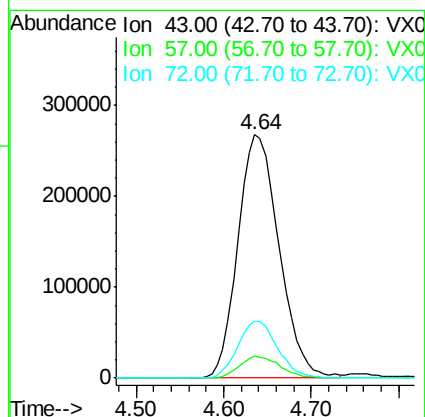
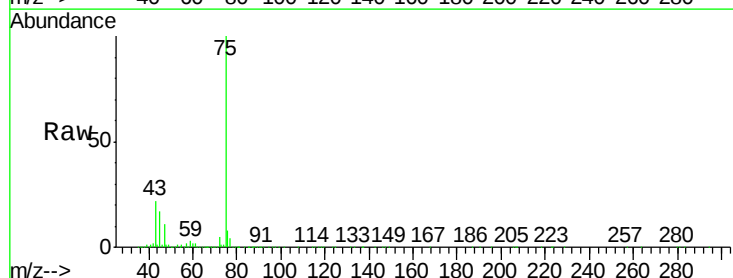
Manual Integrations
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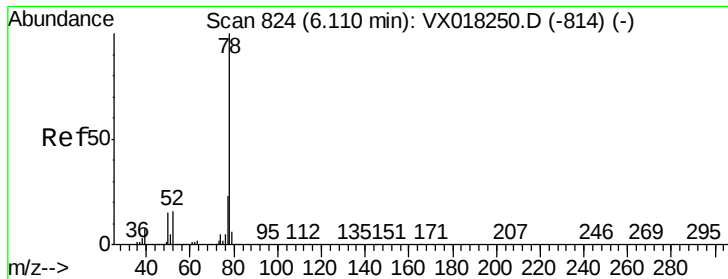
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#30
 2-Butanone
 Concen: 268.030 ug/l
 RT: 4.64 min Scan# 582
 Delta R.T. 0.00 min
 Lab File: VX018488.D
 Acq: 18 Sep 2020 13:29

Tgt Ion	Ratio	Lower	Upper
43	100		
57	8.7	6.7	10.1
72	22.5	20.0	30.0





#34

Benzene

Concen: 3.612 ug/l

RT: 6.12 min Scan# 825

Delta R.T. 0.01 min

Lab File: VX018488.D

Acq: 18 Sep 2020 13:29

Instrument :

MSVOA_X

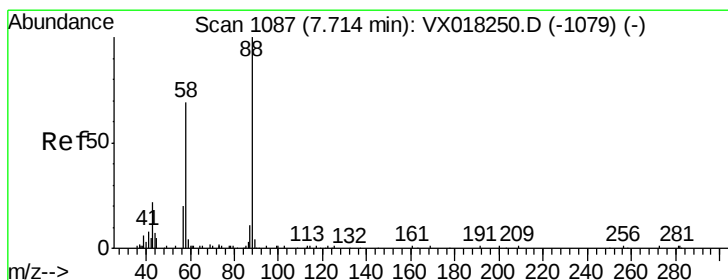
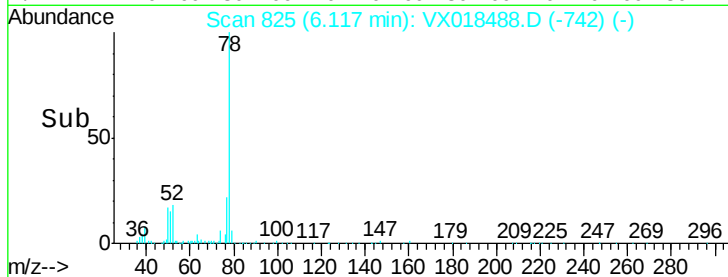
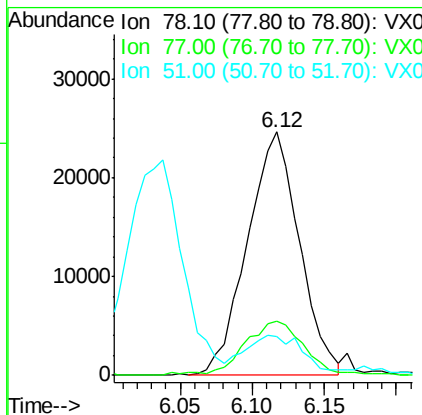
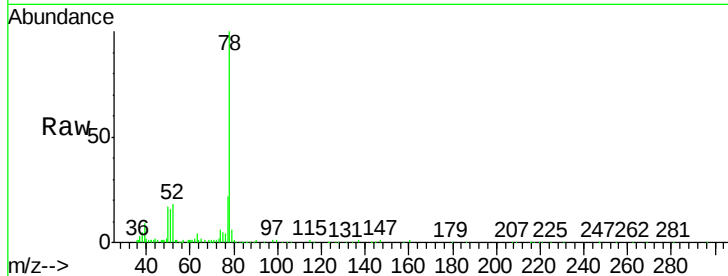
ClientSampleId :

200916080-01-VOA

Tot Ion:	78	Resp:	61675
Ion	Ratio	Lower	Upper
78	100		
77	21.1	18.3	27.5
51	13.4	11.3	16.9

Manual Integrations
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#45

1,4-Dioxane

Concen: 108.396 ug/l

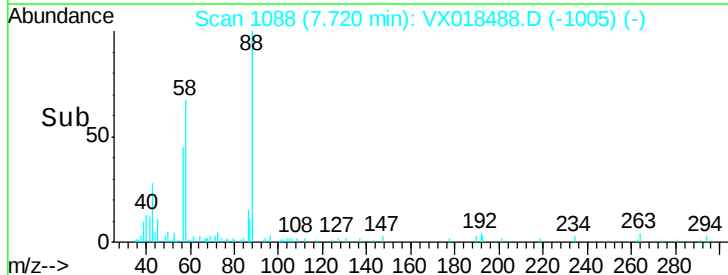
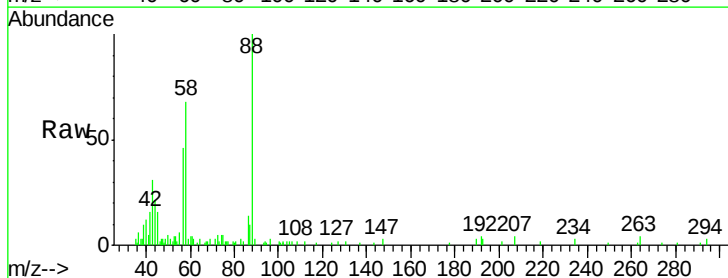
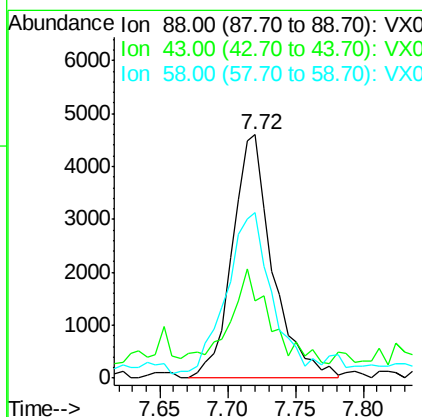
RT: 7.72 min Scan# 1088

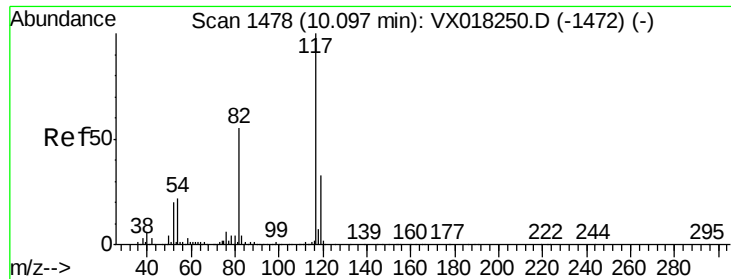
Delta R.T. 0.01 min

Lab File: VX018488.D

Acq: 18 Sep 2020 13:29

Tgt Ion:	88	Resp:	9505
Ion	Ratio	Lower	Upper
88	100		
43	27.2	13.6	20.4#
58	73.2	58.2	87.4





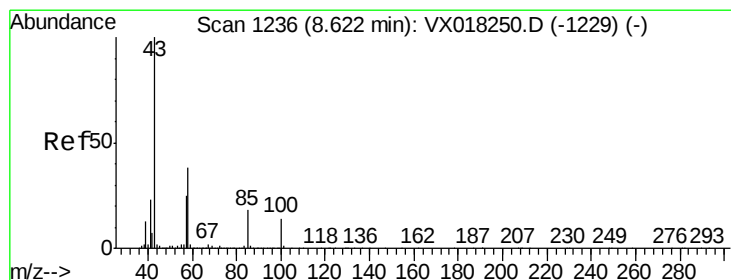
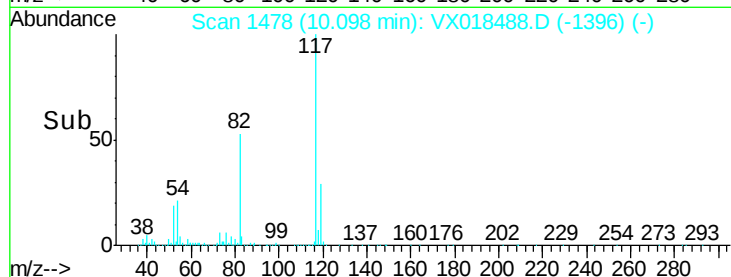
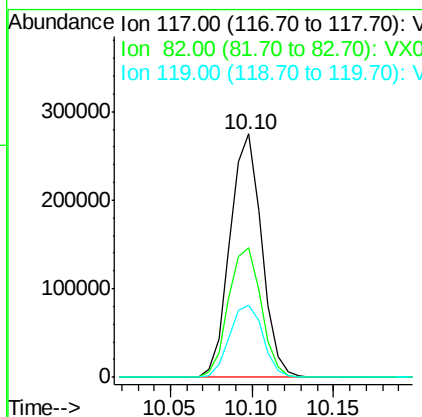
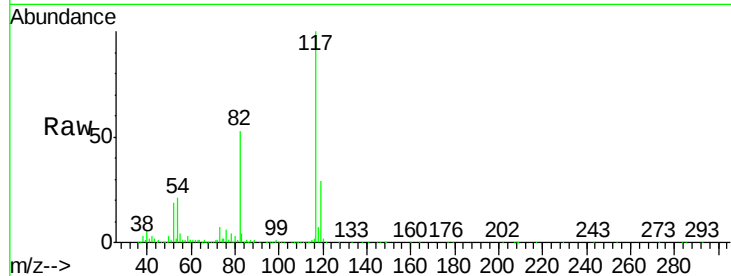
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.00 min
Lab File: VX018488.D
Acq: 18 Sep 2020 13:29

Instrument :
MSVOA_X
ClientSampleId :
200916080-01-VOA

Tot Ion	Ratio	Resp	Lower	Upper
117	100	370903		
82	55.2		44.2	66.4
119	31.5		26.1	39.1

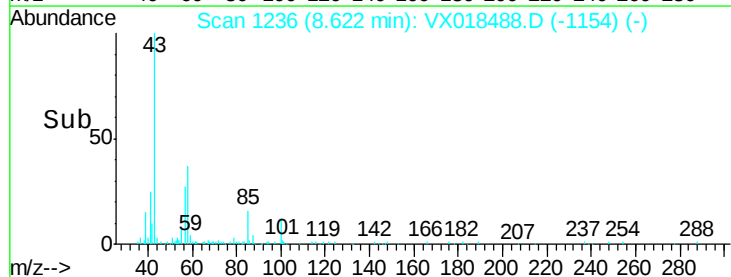
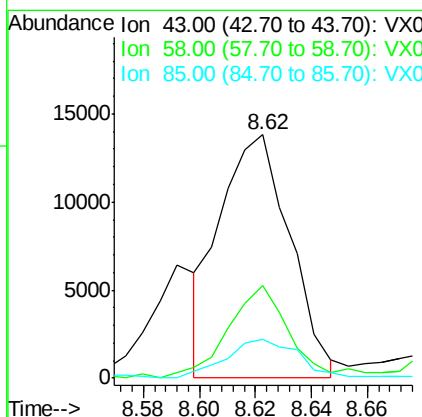
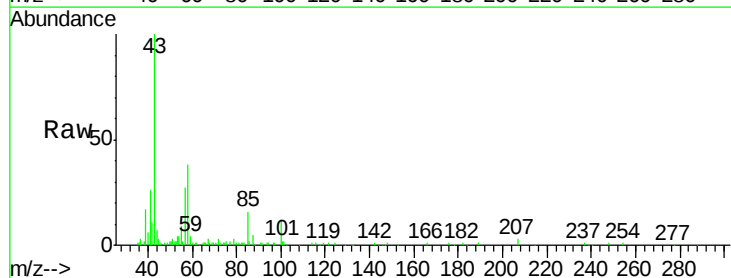
Manual Integrations
APPROVED

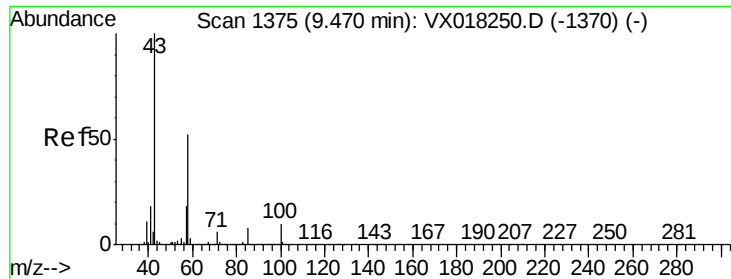
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#58
4-Methyl-2-Pentanone
Concen: 3.748 ug/l m
RT: 8.62 min Scan# 1236
Delta R.T. 0.00 min
Lab File: VX018488.D
Acq: 18 Sep 2020 13:29

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	23907		
58	32.3		30.0	45.0
85	16.4		14.2	21.4





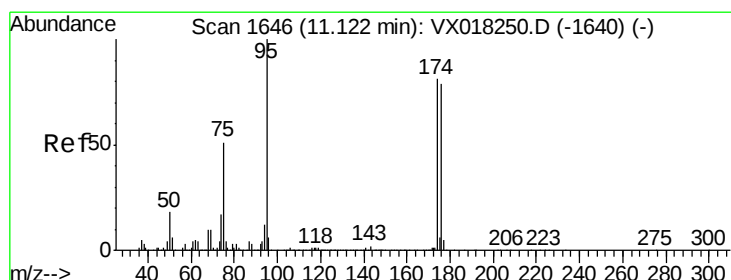
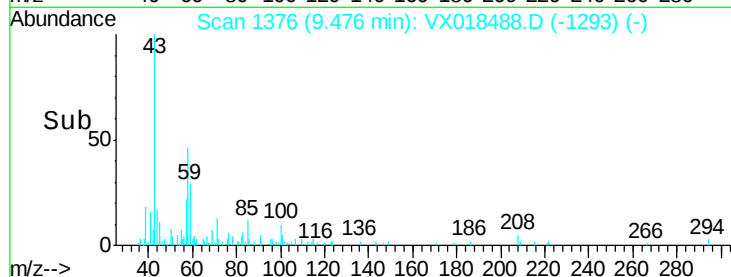
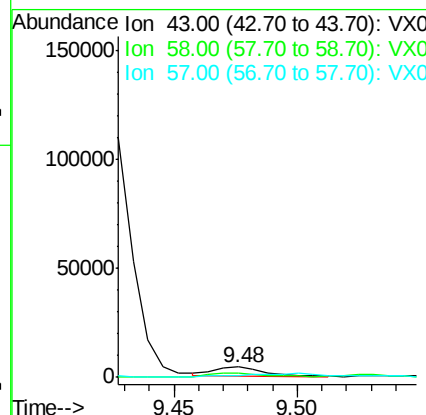
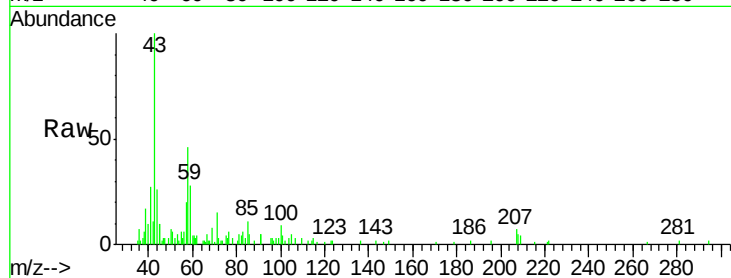
#59
2-Hexanone
Concen: 1.251 ug/l m
RT: 9.48 min Scan# 1376
Delta R.T. 0.01 min
Lab File: VX018488.D
Acq: 18 Sep 2020 13:29

Instrument :
MSVOA_X
ClientSampleId :
200916080-01-VOA

Tot Ion	Ratio	Lower	Upper
43	100		
58	2.9	42.5	63.7#
57	1.1	14.8	22.2#

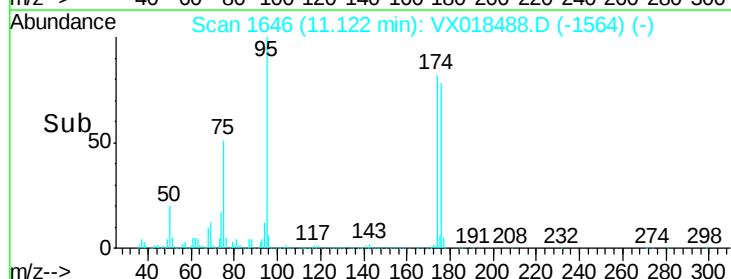
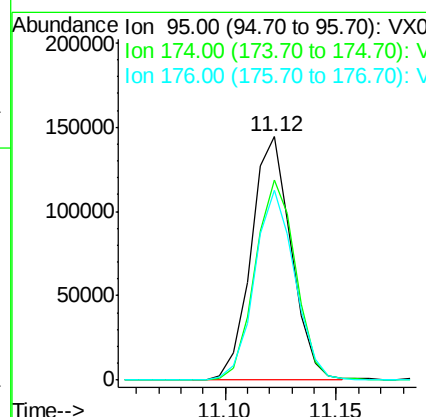
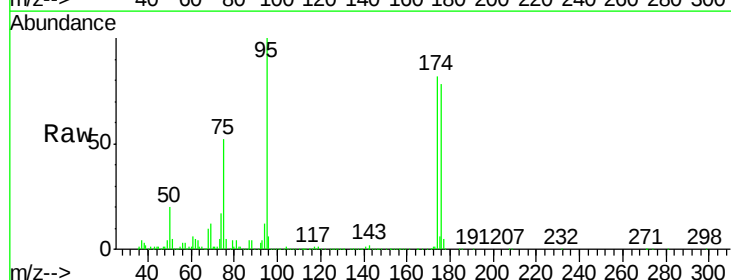
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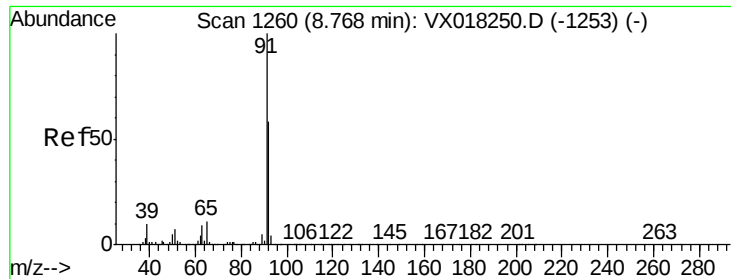
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#60
4-Bromofluorobenzene
Concen: 28.089 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.00 min
Lab File: VX018488.D
Acq: 18 Sep 2020 13:29

Tgt Ion	Ratio	Lower	Upper
95	100		
174	83.7	64.2	96.4
176	78.6	62.2	93.4





#62

Toluene

Concen: 4.207 ug/l

RT: 8.76 min Scan# 1259

Delta R.T. -0.01 min

Lab File: VX018488.D

Acq: 18 Sep 2020 13:29

Instrument :

MSVOA_X

ClientSampleId :

200916080-01-VOA

Tot Ion: 91 Resp: 78523

Ion Ratio Lower Upper

91 100

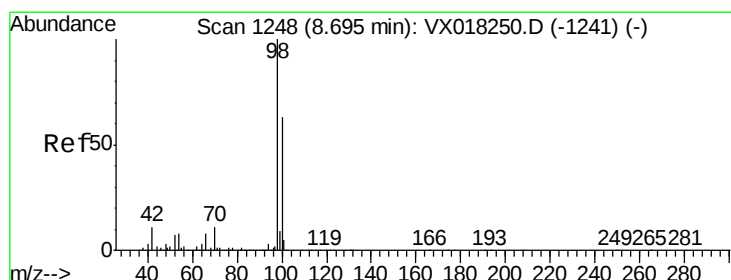
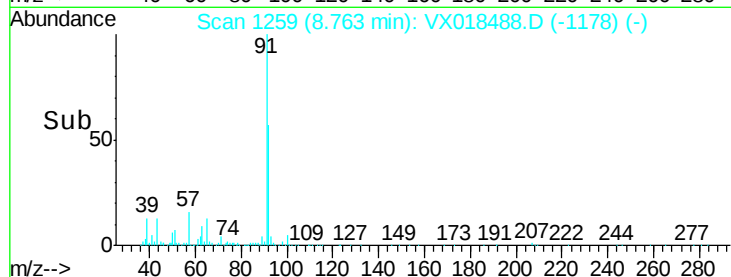
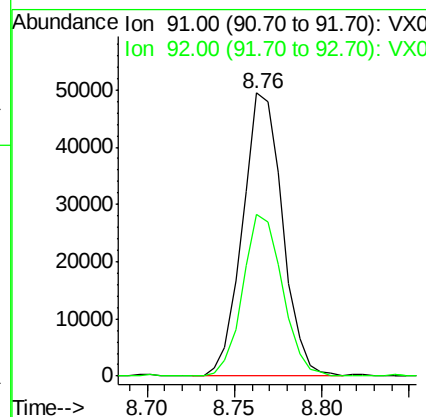
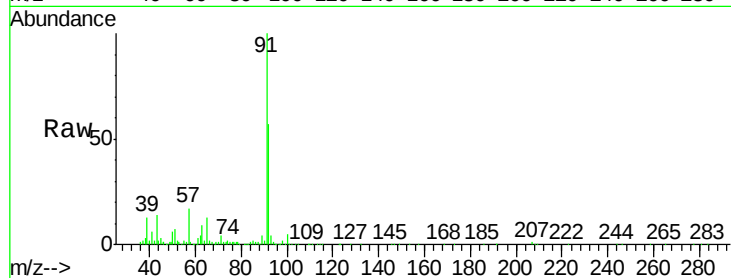
92 56.9 46.9 70.3

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#63

Toluene-d8

Concen: 28.525 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX018488.D

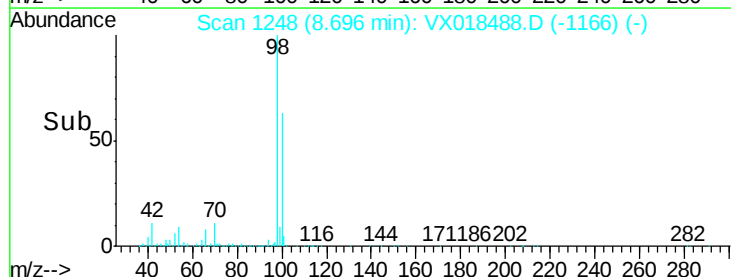
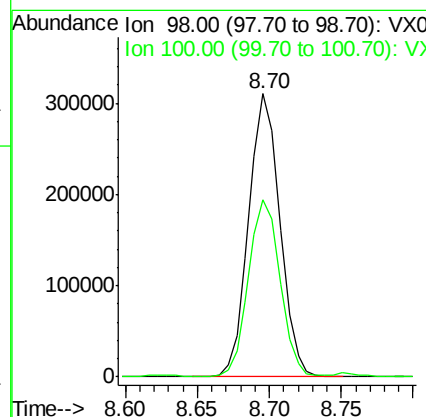
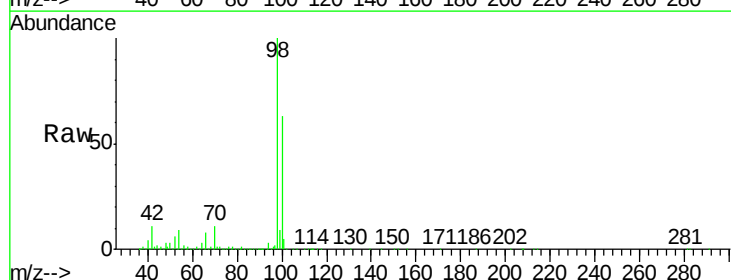
Acq: 18 Sep 2020 13:29

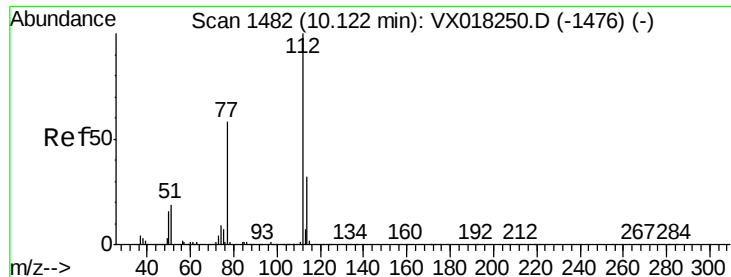
Tgt Ion: 98 Resp: 466327

Ion Ratio Lower Upper

98 100

100 63.3 51.4 77.0





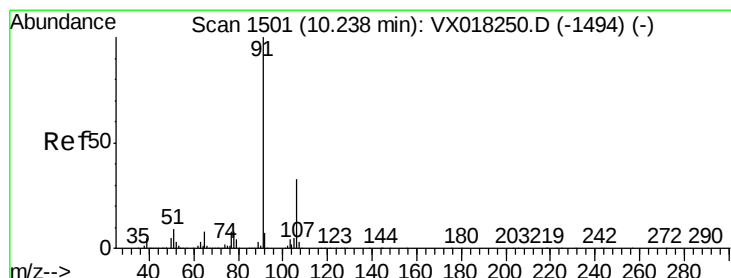
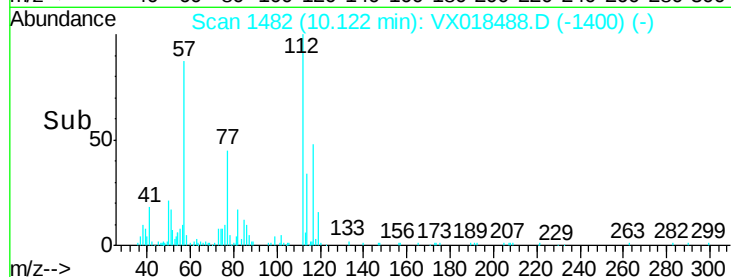
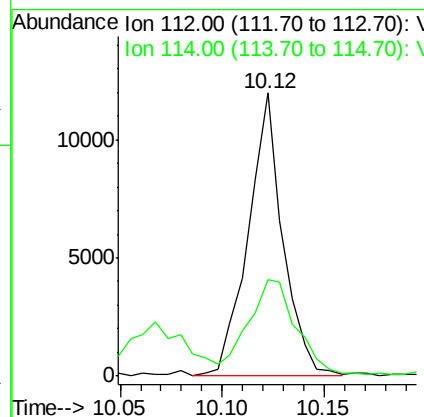
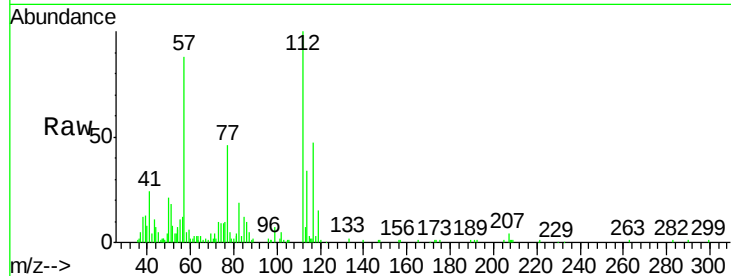
#64
Chlorobenzene
Concen: 1.185 ug/l
RT: 10.12 min Scan# 1482
Delta R.T. 0.00 min
Lab File: VX018488.D
Acq: 18 Sep 2020 13:29

Instrument :
MSVOA_X
ClientSampleId :
200916080-01-VOA

Tot Ion	Ratio	Lower	Upper
112	100		
114	32.8	25.8	38.8

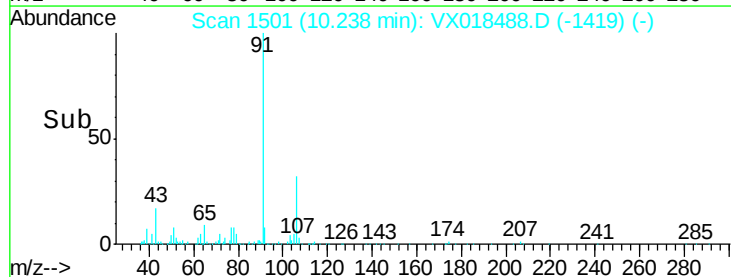
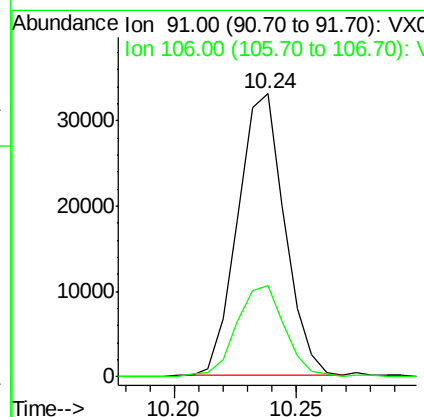
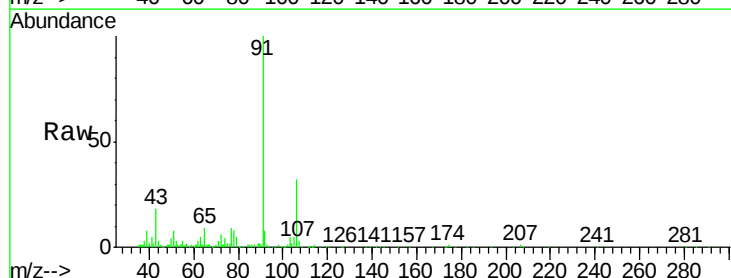
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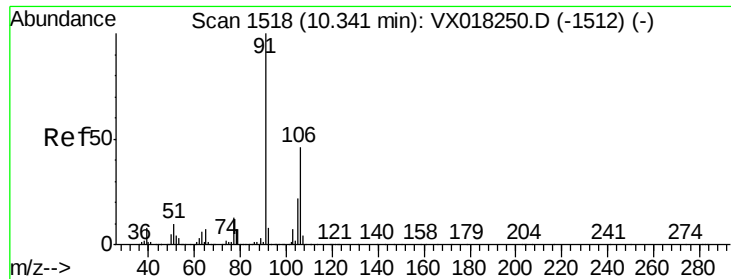
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#66
Ethyl Benzene
Concen: 2.132 ug/l
RT: 10.24 min Scan# 1501
Delta R.T. 0.00 min
Lab File: VX018488.D
Acq: 18 Sep 2020 13:29

Tgt Ion	Ratio	Lower	Upper
91	100		
106	32.3	26.3	39.5





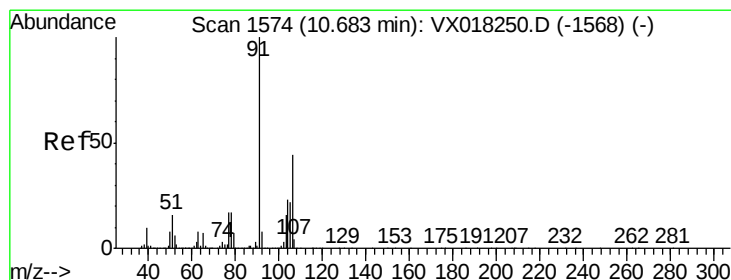
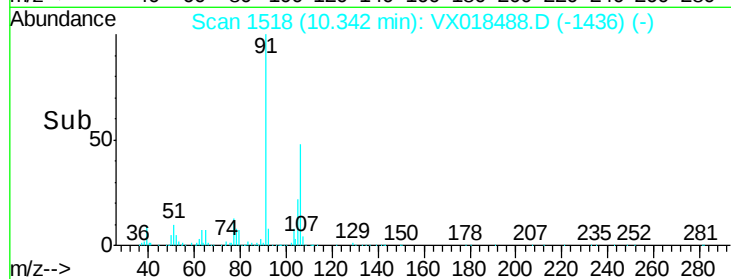
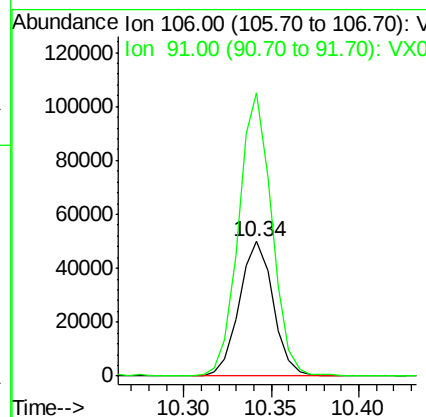
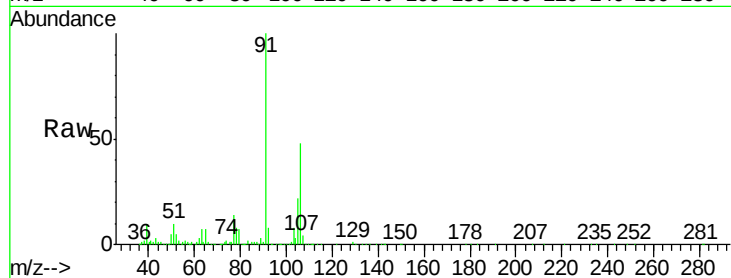
#67
m/p-Xvlenes
Concen: 8.595 ug/l
RT: 10.34 min Scan# 1518
Delta R.T. 0.00 min
Lab File: VX018488.D
Acq: 18 Sep 2020 13:29

Instrument :
MSVOA_X
ClientSampleId :
200916080-01-VOA

Tot Ion:106 Resp: 67793
Ion Ratio Lower Upper
106 100
91 203.0 166.2 249.2

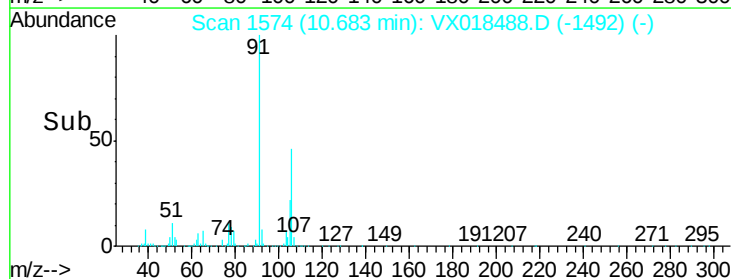
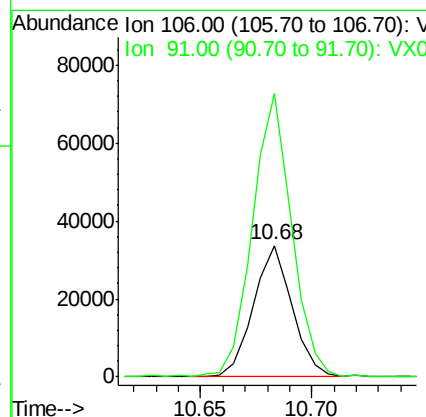
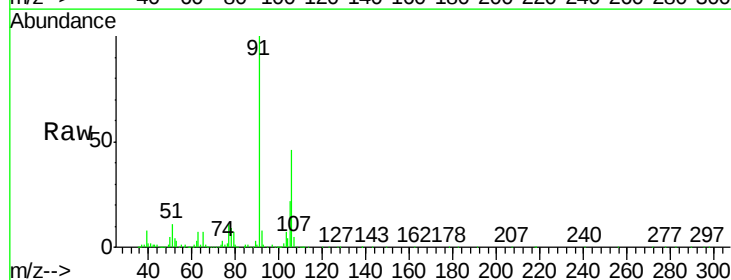
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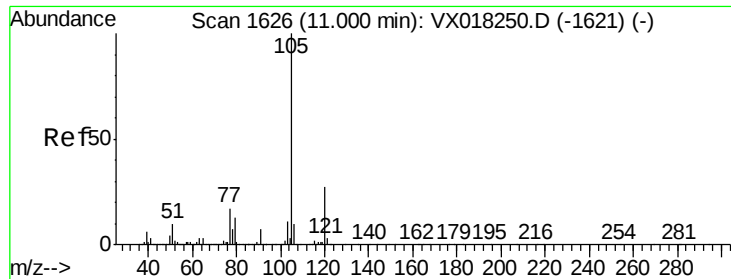
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#68
o-Xylene
Concen: 5.492 ug/l
RT: 10.68 min Scan# 1574
Delta R.T. 0.00 min
Lab File: VX018488.D
Acq: 18 Sep 2020 13:29

Tgt Ion:106 Resp: 40935
Ion Ratio Lower Upper
106 100
91 215.7 109.2 327.6





#70

Isopropylbenzene

Concen: 0.249 ug/l

RT: 11.00 min Scan# 1626

Delta R.T. 0.00 min

Lab File: VX018488.D

Acq: 18 Sep 2020 13:29

Instrument :

MSVOA_X

ClientSampleId :

200916080-01-VOA

Tot Ion:105 Resp: 5165

Ion Ratio Lower Upper

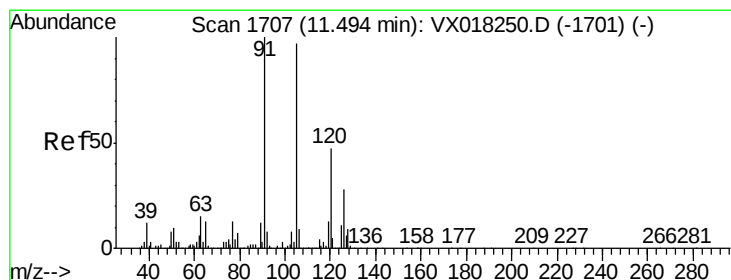
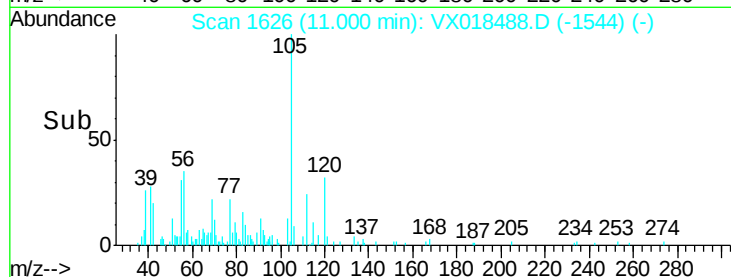
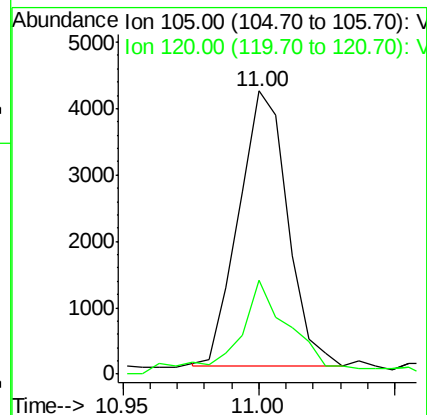
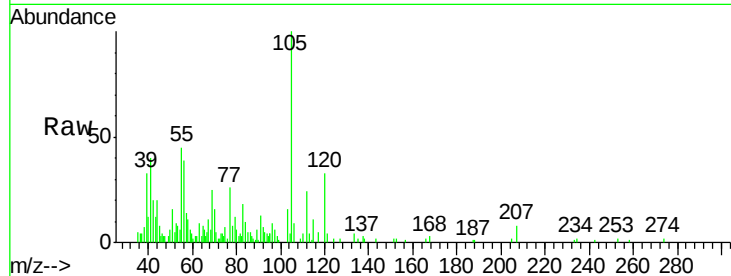
105 100

120 31.7 18.7 34.7

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#76

1,3,5-Trimethylbenzene

Concen: 0.774 ug/l

RT: 11.49 min Scan# 1706

Delta R.T. -0.01 min

Lab File: VX018488.D

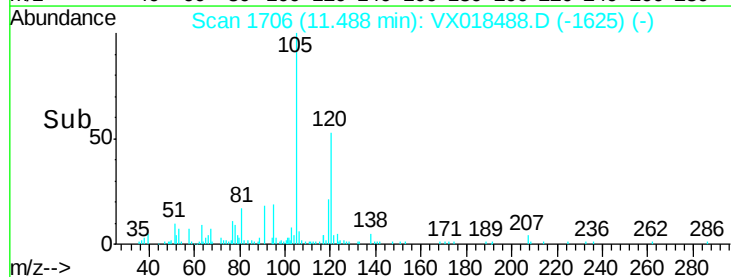
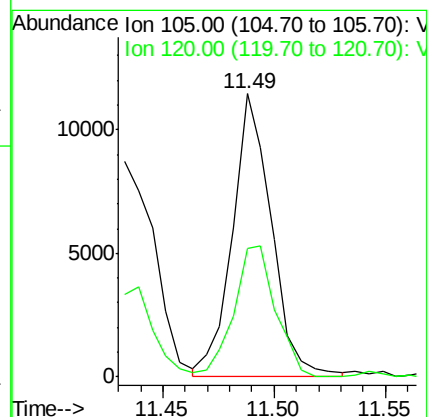
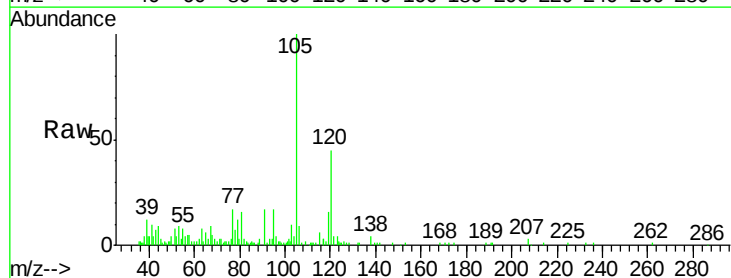
Acq: 18 Sep 2020 13:29

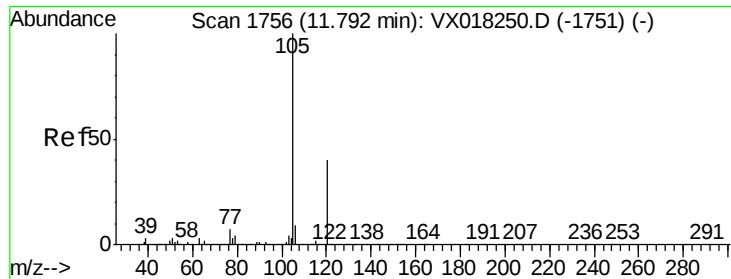
Tgt Ion:105 Resp: 13979

Ion Ratio Lower Upper

105 100

120 49.4 0.0 95.0





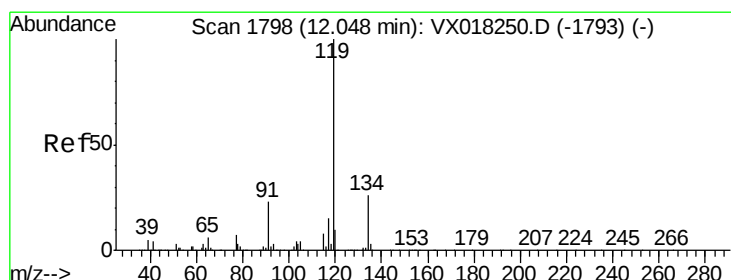
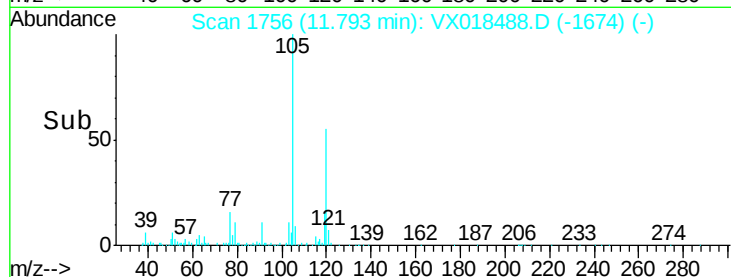
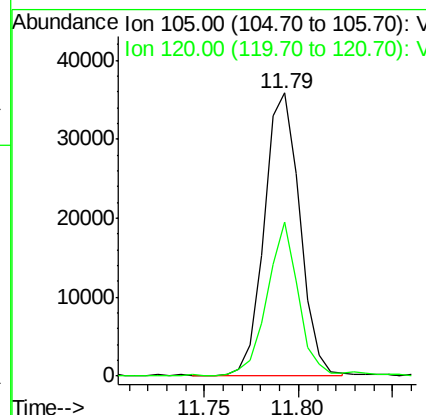
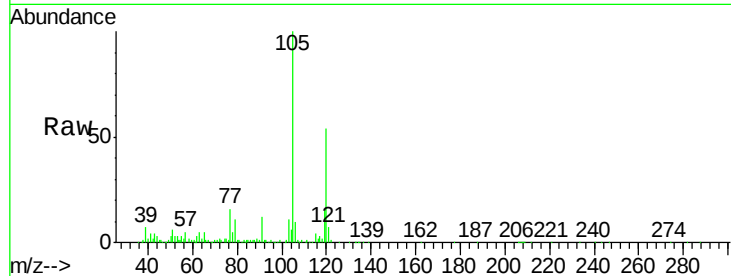
#80
 1,2,4-Trimethylbenzene
 Concen: 2.632 ug/l
 RT: 11.79 min Scan# 1756
 Delta R.T. 0.00 min
 Lab File: VX018488.D
 Acq: 18 Sep 2020 13:29

Instrument :
 MSVOA_X
 ClientSampleId :
 200916080-01-VOA

Tot Ion	Ratio	Lower	Upper
105	100		
120	48.1	0.0	89.2

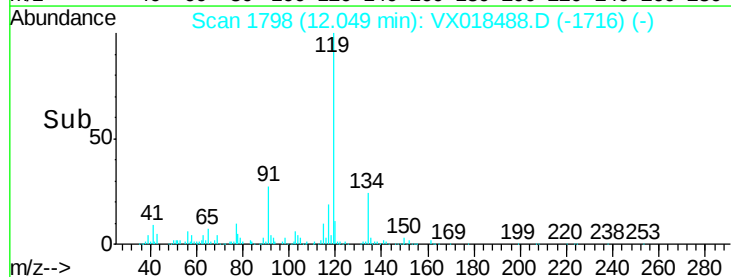
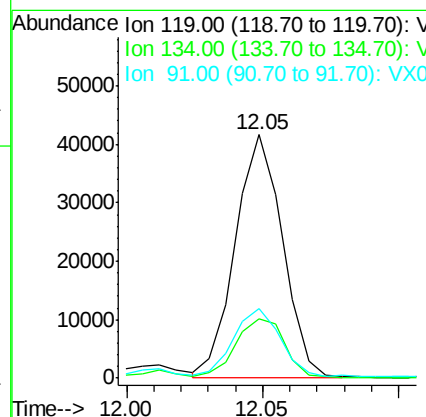
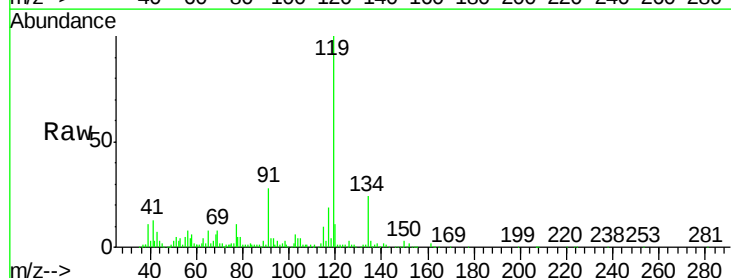
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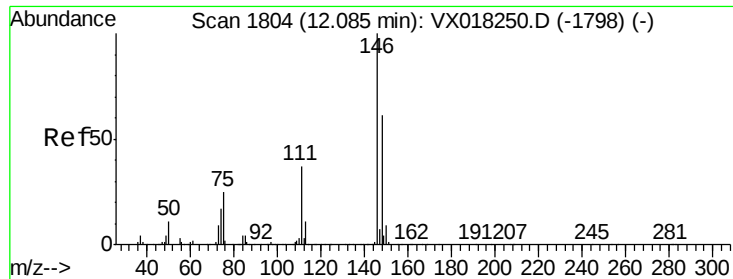
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#82
 p-Isopropyltoluene
 Concen: 2.667 ug/l
 RT: 12.05 min Scan# 1798
 Delta R.T. 0.00 min
 Lab File: VX018488.D
 Acq: 18 Sep 2020 13:29

Tgt Ion	Ratio	Lower	Upper
119	100		
134	25.4	0.0	53.0
91	26.4	0.0	49.8





#84

1,4-Dichlorobenzene

Concen: 4.125 ug/l

RT: 12.08 min Scan# 1803

Delta R.T. -0.01 min

Lab File: VX018488.D

Acq: 18 Sep 2020 13:29

Instrument :

MSVOA_X

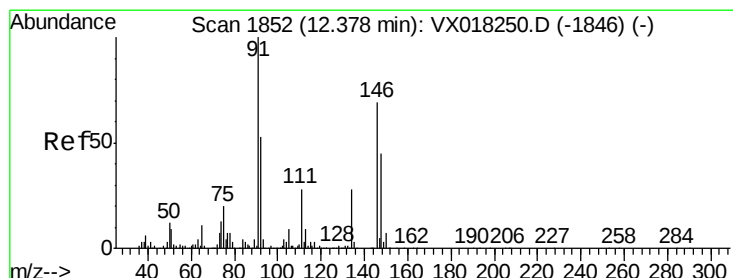
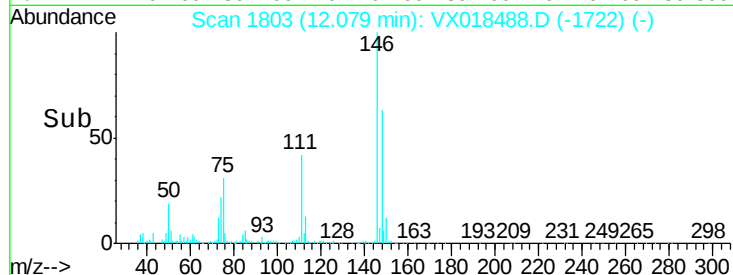
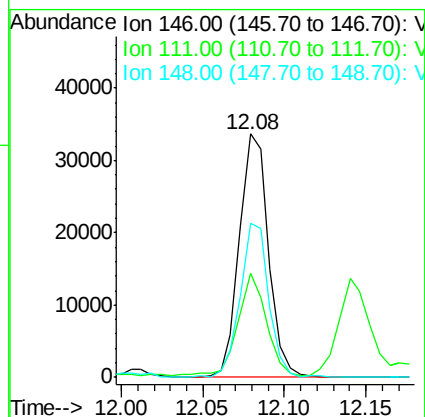
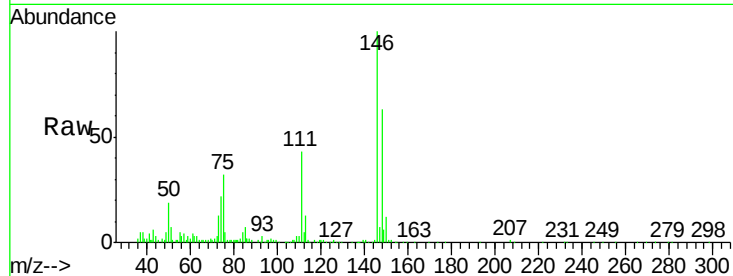
ClientSampleId :

200916080-01-VOA

Tot Ion:	146	Resp:	41875
Ion Ratio	Lower	Upper	
146	100		
111	41.3	19.3	57.8
148	62.2	31.7	95.1

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#87

1,2-Dichlorobenzene

Concen: 0.349 ug/l

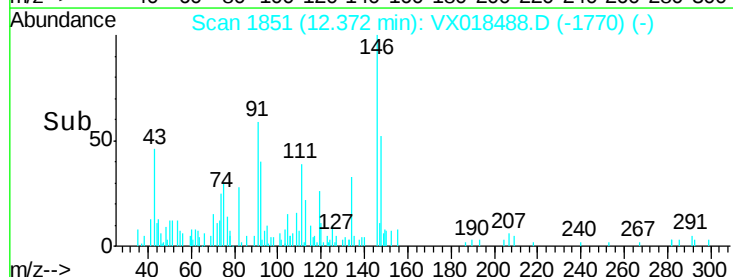
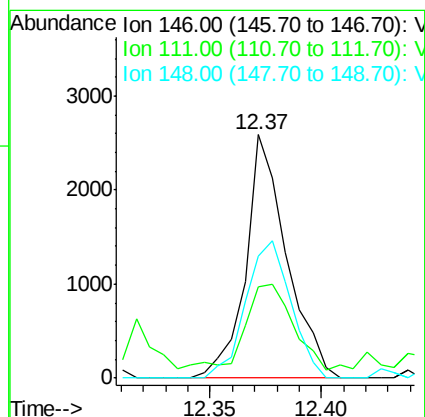
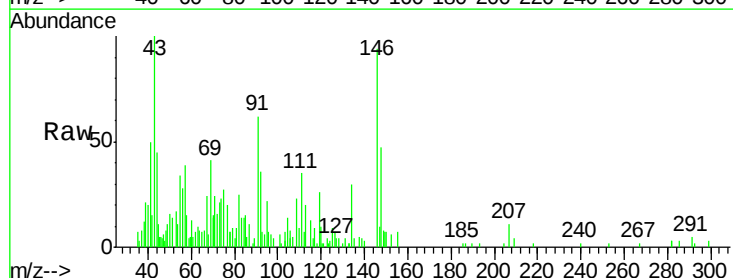
RT: 12.37 min Scan# 1851

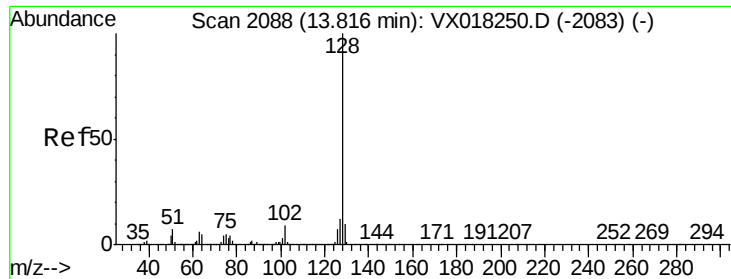
Delta R.T. -0.01 min

Lab File: VX018488.D

Acq: 18 Sep 2020 13:29

Tgt Ion:	146	Resp:	3322
Ion Ratio	Lower	Upper	
146	100		
111	38.9	21.4	64.3
148	62.0	32.0	96.2





#91
Naphthalene
Concen: 35.592 ug/l
RT: 13.82 min Scan# 2088
Delta R.T. 0.00 min
Lab File: VX018488.D
Acq: 18 Sep 2020 13:29

Instrument :
MSVOA_X
ClientSampleId :
200916080-01-VOA

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.2	15.4
129	10.9	8.7	13.1

Manual Integrations
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