

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX071620\
 Data File : VX017392.D
 Acq On : 16 Jul 2020 15:43
 Operator : JC/SP
 Sample : L3321-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 200715084-02-VOA

Manual Integrations
 APPROVED

MMDadoda
 7/17/2020 4:44:15 PM

Quant Time: Jul 17 01:45:57 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071320W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 14 02:59:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	279598	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	470718	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	514569	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	284897	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.03	65	180350	51.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.78%	
35) Dibromofluoromethane	5.47	113	155711	49.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.22%	
50) Toluene-d8	8.70	98	597582	52.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.50%	
62) 4-Bromofluorobenzene	11.12	95	263758	58.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	116.10%	
Target Compounds						
					Qvalue	
4) Vinyl Chloride	1.39	62	1378	0.523	ug/l	99
8) Diethyl Ether	2.17	74	10530	6.698	ug/l	86
11) Tert butyl alcohol	3.01	59	3540491	5988.303	ug/l	100
16) Acetone	2.42	43	560430	447.653	ug/l	98
18) Methyl Acetate	2.75	43	15242	4.929	ug/l	99
19) Methyl tert-butyl Ether	3.17	73	27519	3.185	ug/l	96
20) Methylene Chloride	2.84	84	1829	0.599	ug/l #	88
25) 2-Butanone	4.64	43	1836065	923.372	ug/l	99
27) cis-1,2-Dichloroethene	4.57	96	2276	0.713	ug/l #	9
29) Tetrahydrofuran	5.09	42	930509	722.922	ug/l	95
37) Ethyl Acetate	4.80	43	51128m	11.418	ug/l	
40) Benzene	6.11	78	48894	3.929	ug/l	97
42) 1,2-Dichloroethane	6.17	62	3653	0.756	ug/l	89
43) Isopropyl Acetate	6.42	43	5939	0.830	ug/l #	85
49) 1,4-Dioxane	7.71	88	8039	114.413	ug/l #	79
52) Toluene	8.76	92	32895	4.120	ug/l	100
65) Chlorobenzene	10.12	112	10974	1.049	ug/l	89
67) Ethyl Benzene	10.24	91	88873	5.105	ug/l	97
68) m/p-Xylenes	10.34	106	47189	7.124	ug/l	100
69) o-Xylene	10.68	106	28569	4.514	ug/l	97
73) Isopropylbenzene	11.00	105	8779	0.492	ug/l	95
80) 1,3,5-Trimethylbenzene	11.49	105	7919	0.522	ug/l	90
84) 1,2,4-Trimethylbenzene	11.79	105	31058	2.028	ug/l	97
86) p-Isopropyltoluene	12.05	119	27444	1.691	ug/l	93
88) 1,4-Dichlorobenzene	12.08	146	25779	2.804	ug/l	89
95) Naphthalene	13.82	128	334557	19.169	ug/l	100

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

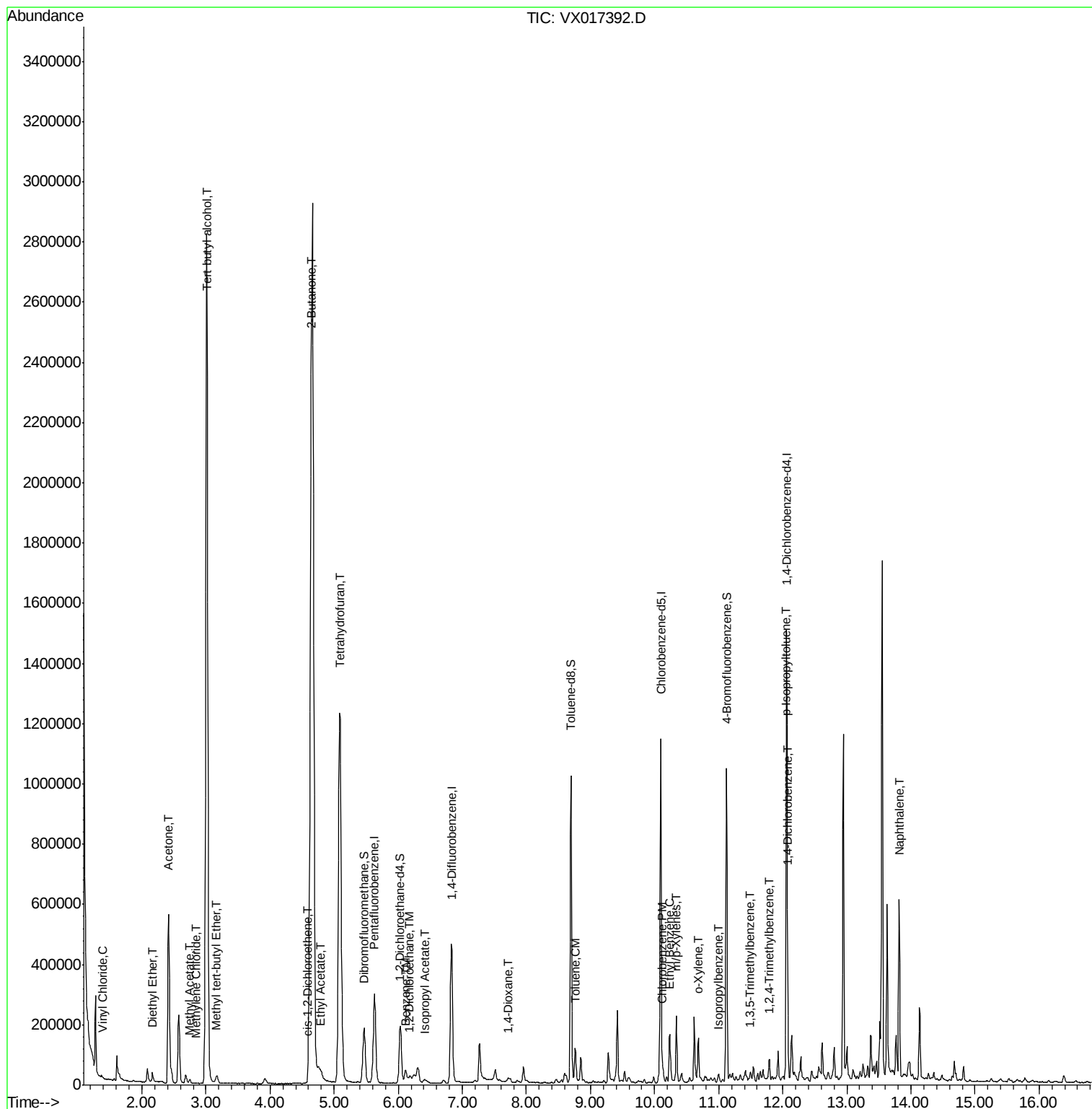
Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071620\
Data File : VX017392.D
Acq On : 16 Jul 2020 15:43
Operator : JC/SP
Sample : L3321-01
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 12 Sample Multiplier: 1

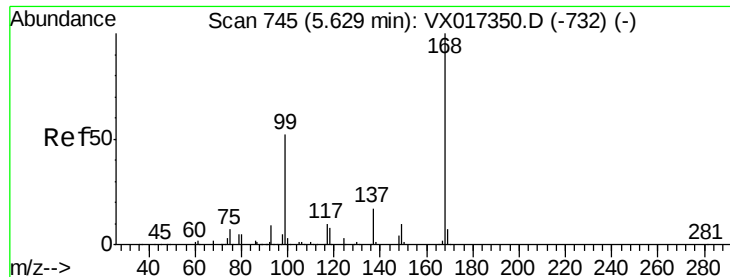
Instrument :
MSVOA_X
ClientSampleId :
200715084-02-VOA

Manual Integrations
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7/17/2020 4:44:15 PM

Quant Time: Jul 17 01:45:57 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071320W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 14 02:59:51 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.00 min

Lab File: VX017392.D

Acq: 16 Jul 2020 15:43

Instrument :

MSVOA_X

ClientSampleId :

200715084-02-VOA

Tot Ion:168 Resp: 279598

Ion Ratio Lower Upper

168 100

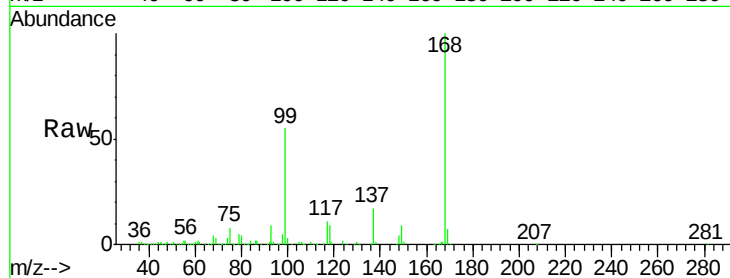
99 54.9 41.6 62.4

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

120000

100000

80000

60000

40000

20000

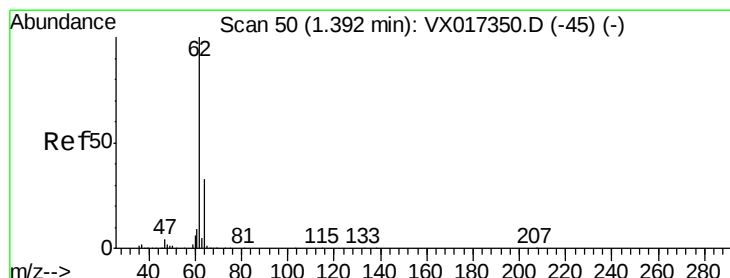
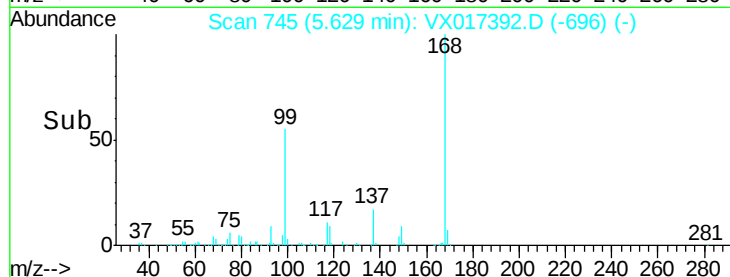
0

5.50

5.60

5.70

Time-->



#4

Vinyl Chloride

Concen: 0.523 ug/l

RT: 1.39 min Scan# 50

Delta R.T. 0.00 min

Lab File: VX017392.D

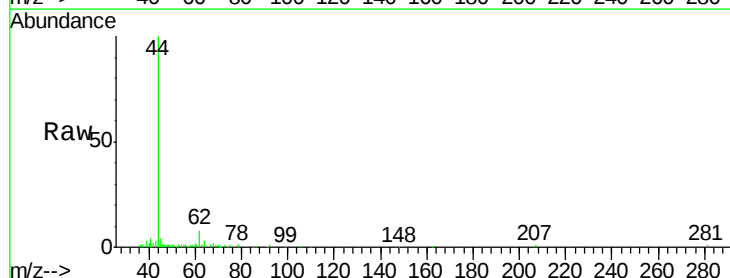
Acq: 16 Jul 2020 15:43

Tgt Ion: 62 Resp: 1378

Ion Ratio Lower Upper

62 100

64 33.5 26.3 39.5



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1000

500

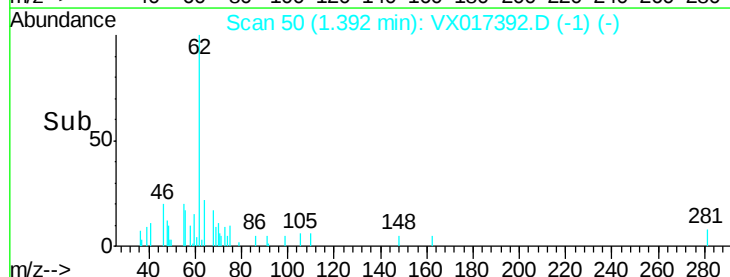
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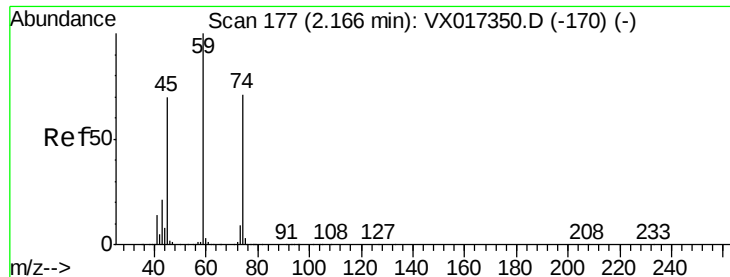
1.35

1.40

1.45

Time-->





#8

Diethyl Ether

Concen: 6.698 ug/l

RT: 2.17 min Scan# 177

Delta R.T. 0.00 min

Lab File: VX017392.D

Acq: 16 Jul 2020 15:43

Instrument :

MSVOA_X

ClientSampleId :

200715084-02-VOA

Tot Ion: 74 Resp: 10530

Ion Ratio Lower Upper

74 100

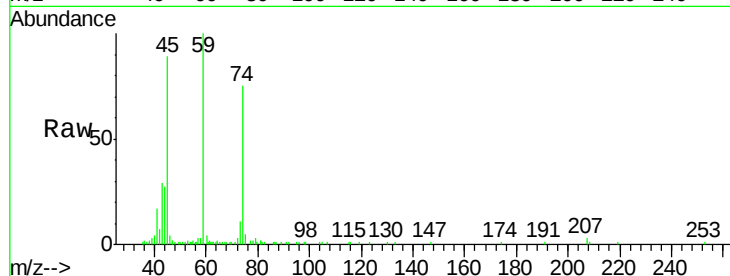
45 107.9 47.2 141.6

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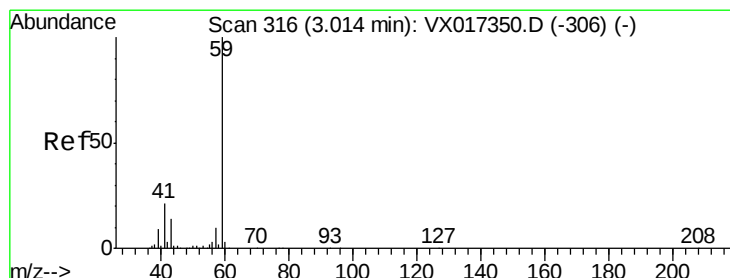
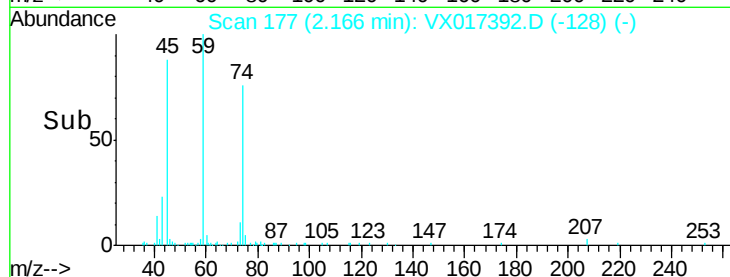
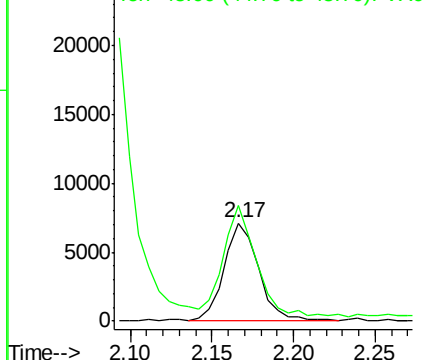
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Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



#11

Tert butyl alcohol

Concen: 5988.303 ug/l

RT: 3.01 min Scan# 316

Delta R.T. 0.00 min

Lab File: VX017392.D

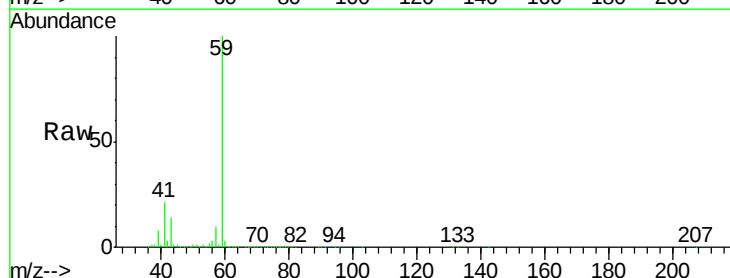
Acq: 16 Jul 2020 15:43

Tgt Ion: 59 Resp: 3540491

Ion Ratio Lower Upper

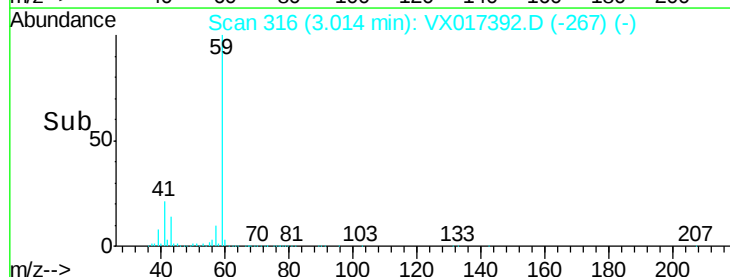
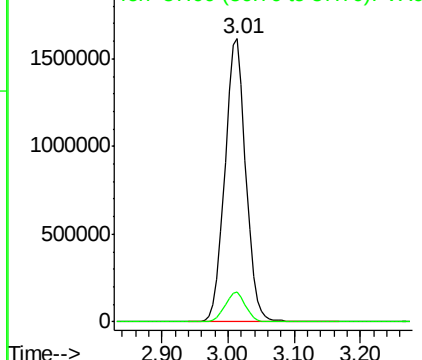
59 100

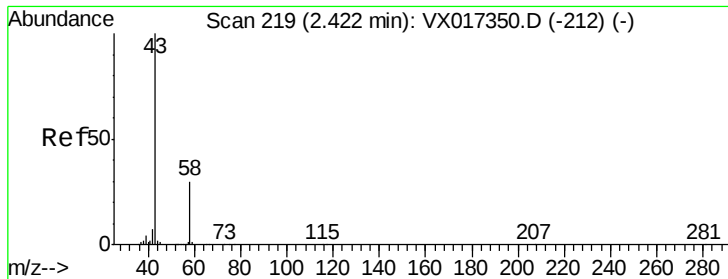
57 10.4 8.3 12.5



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





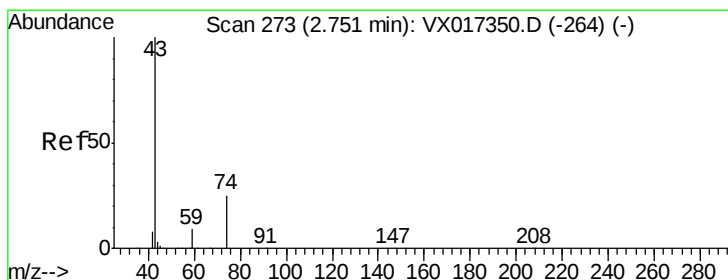
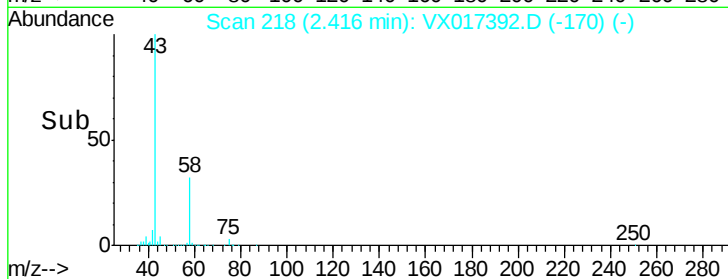
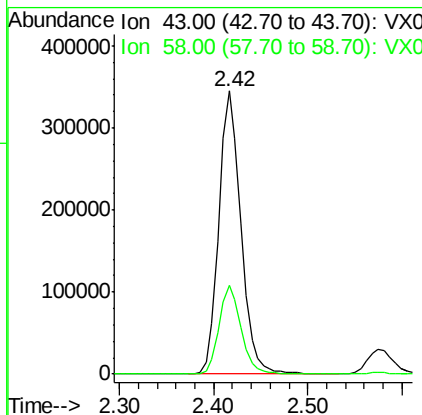
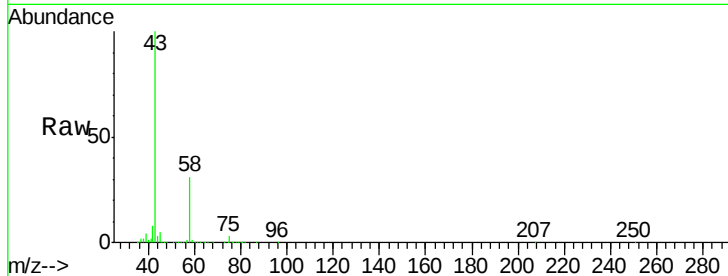
#16
Acetone
Concen: 447.653 ug/l
RT: 2.42 min Scan# 218
Delta R.T. -0.01 min
Lab File: VX017392.D
Acq: 16 Jul 2020 15:43

Instrument :
MSVOA_X
ClientSampleId :
200715084-02-VOA

Tot Ion	Ratio	Lower	Upper
43	100		
58	31.5	24.2	36.2

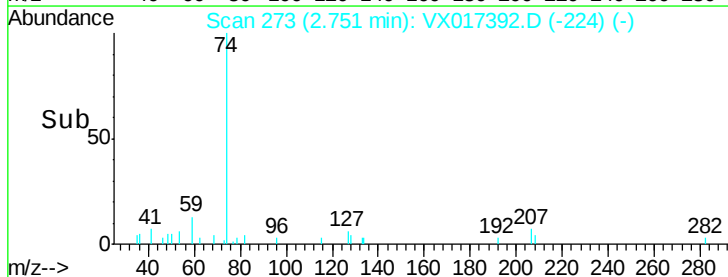
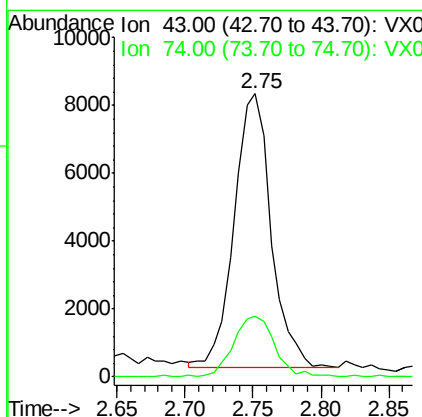
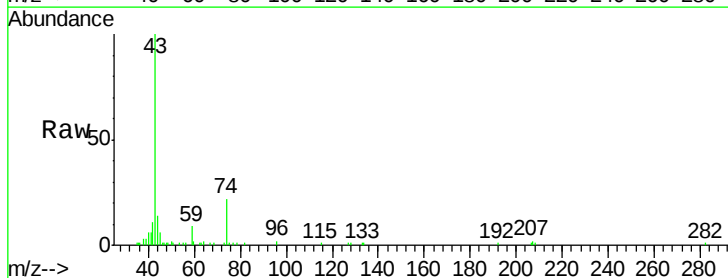
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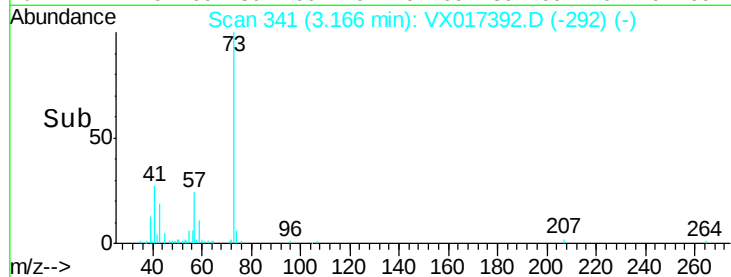
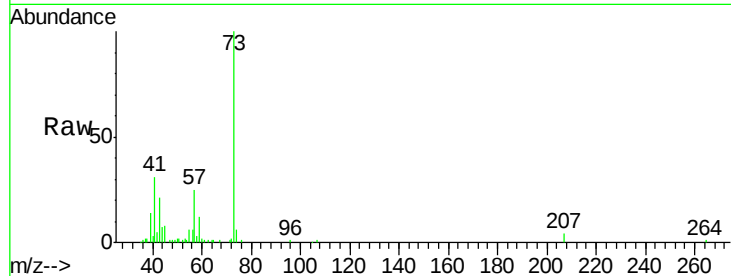
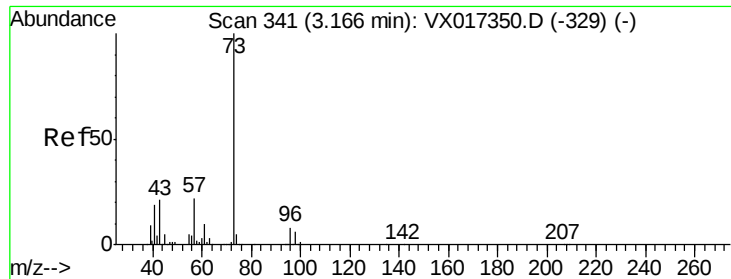
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#18
Methyl Acetate
Concen: 4.929 ug/l
RT: 2.75 min Scan# 273
Delta R.T. 0.00 min
Lab File: VX017392.D
Acq: 16 Jul 2020 15:43

Tgt Ion	Ratio	Lower	Upper
43	100		
74	25.0	19.4	29.2





#19

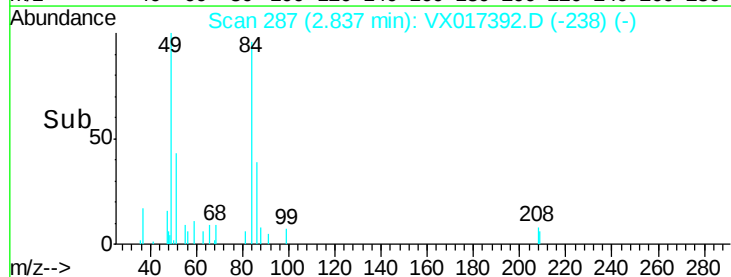
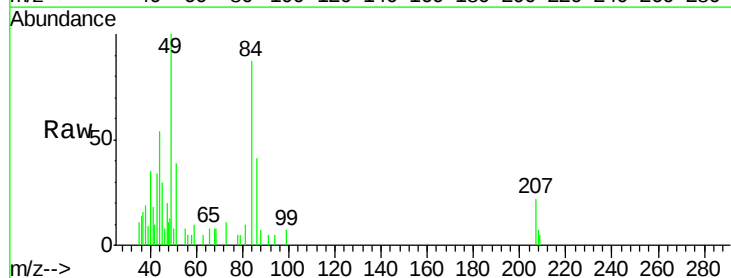
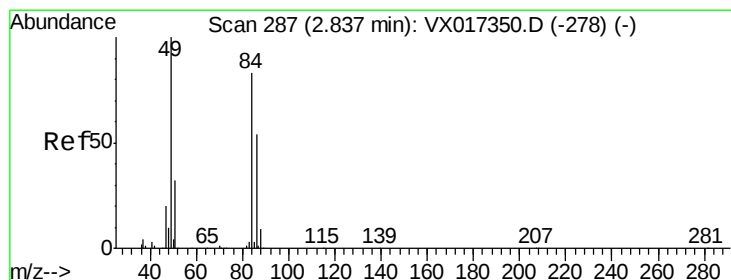
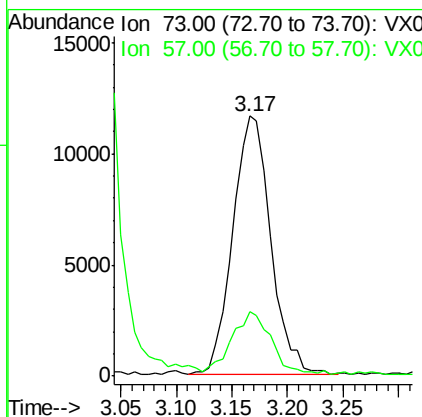
Methyl tert-butyl Ether
Concen: 3.185 ug/l
RT: 3.17 min Scan# 341
Delta R.T. 0.00 min
Lab File: VX017392.D
Acq: 16 Jul 2020 15:43

Tot Ion	Ratio	Lower	Upper
73	100		
57	23.9	17.5	26.3

Instrument :
MSVOA_X
ClientSampleId :
200715084-02-VOA

Manual Integrations
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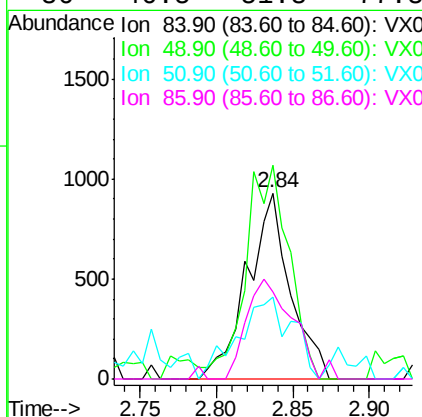
MMDadoda
7/17/2020 4:44:15 PM

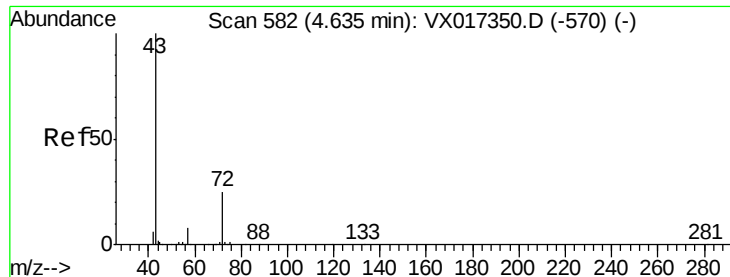


#20

Methylene Chloride
Concen: 0.599 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX017392.D
Acq: 16 Jul 2020 15:43

Tgt Ion	Ratio	Lower	Upper
84	100		
49	114.7	95.8	143.8
51	30.3	31.0	46.4#
86	46.5	51.8	77.8#





#25

2-Butanone

Concen: 923.372 ug/l

RT: 4.64 min Scan# 582

Delta R.T. 0.00 min

Lab File: VX017392.D

Acq: 16 Jul 2020 15:43

Instrument :

MSVOA_X

ClientSampleId :

200715084-02-VOA

Tot Ion: 43 Resp: 1836065

Ion Ratio Lower Upper

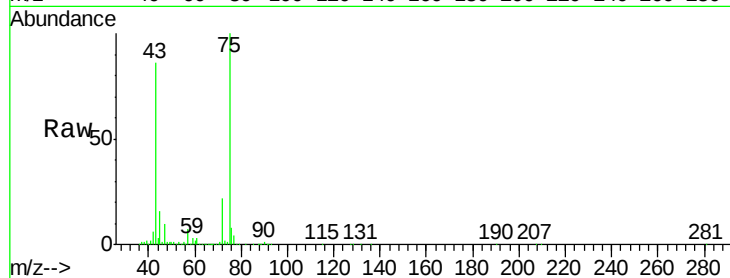
43 100

72 25.1 20.4 30.6

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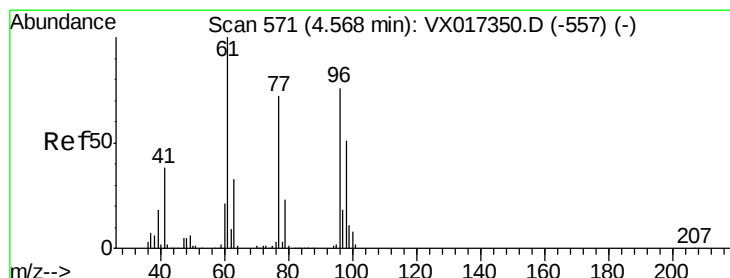
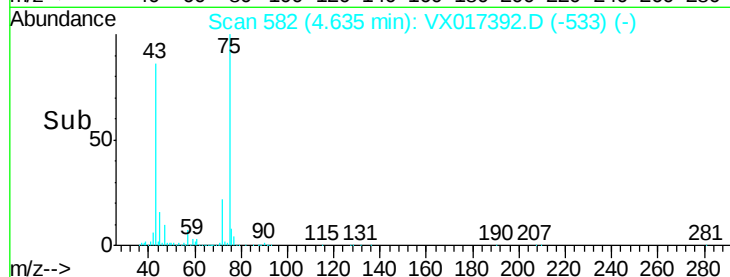
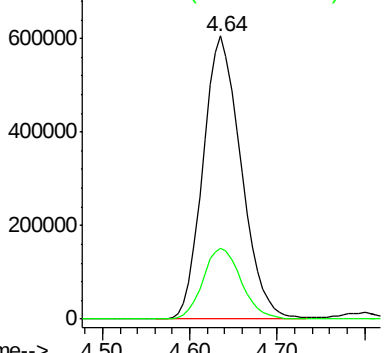
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Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#27

cis-1,2-Dichloroethene

Concen: 0.713 ug/l

RT: 4.57 min Scan# 572

Delta R.T. 0.01 min

Lab File: VX017392.D

Acq: 16 Jul 2020 15:43

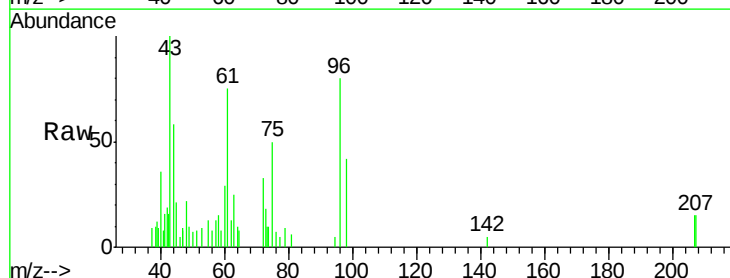
Tgt Ion: 96 Resp: 2276

Ion Ratio Lower Upper

96 100

61 0.0 0.0 281.2

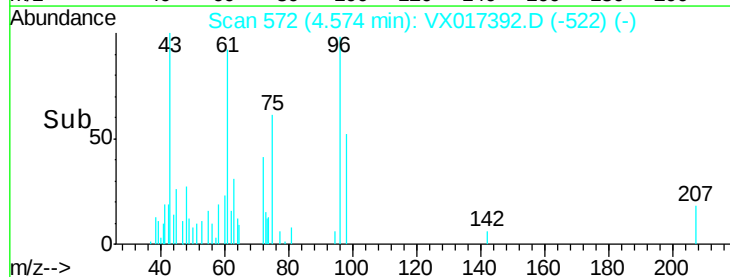
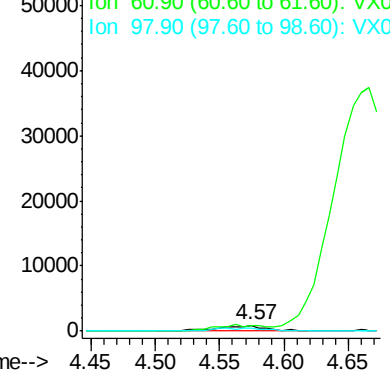
98 34.1 0.0 131.4

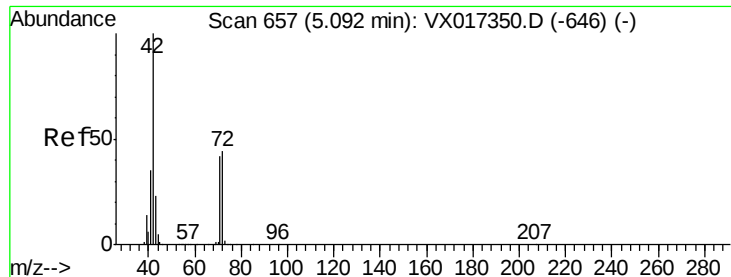


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#29

Tetrahydrofuran

Concen: 722.922 ug/l

RT: 5.09 min Scan# 657

Delta R.T. 0.00 min

Lab File: VX017392.D

Acq: 16 Jul 2020 15:43

Instrument :

MSVOA_X

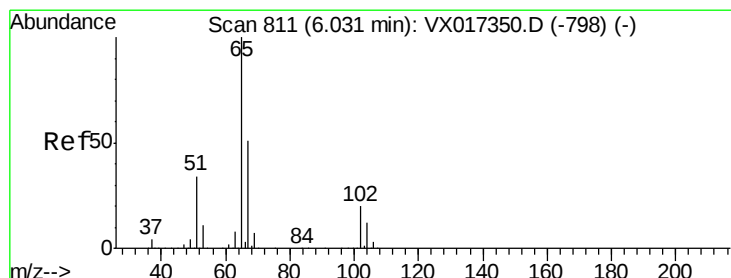
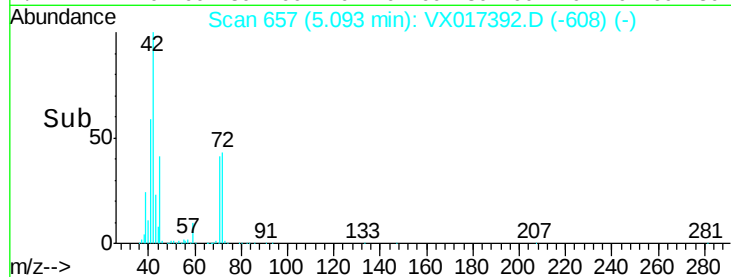
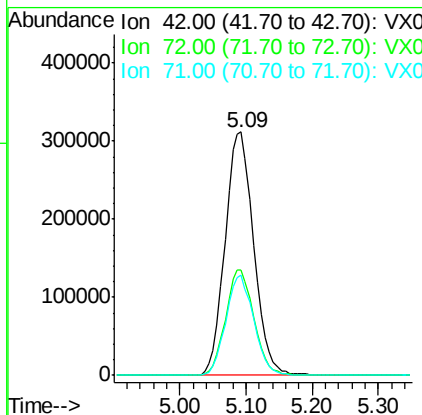
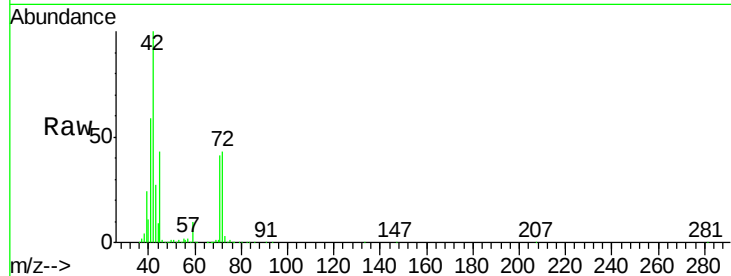
ClientSampleId :

200715084-02-VOA

Tot Ion:	42	Resp:	930509
Ion Ratio		Lower	Upper
42	100		
72	43.1	37.2	55.8
71	40.3	34.4	51.6

Manual Integrations
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#33

1,2-Dichloroethane-d4

Concen: 51.394 ug/l

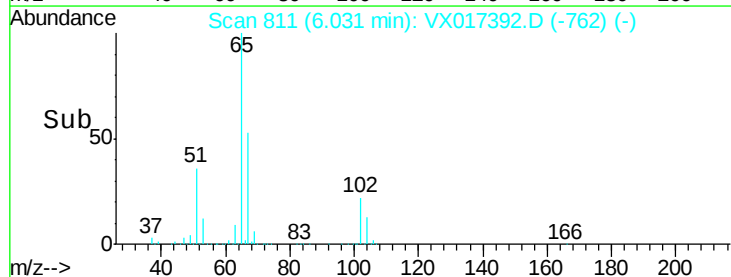
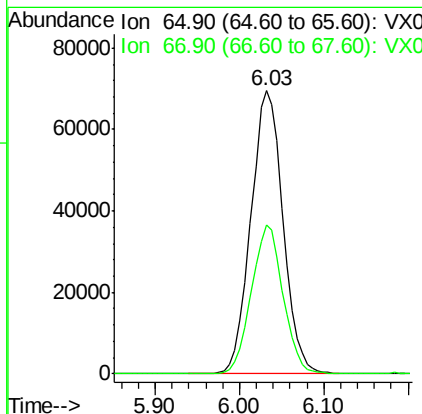
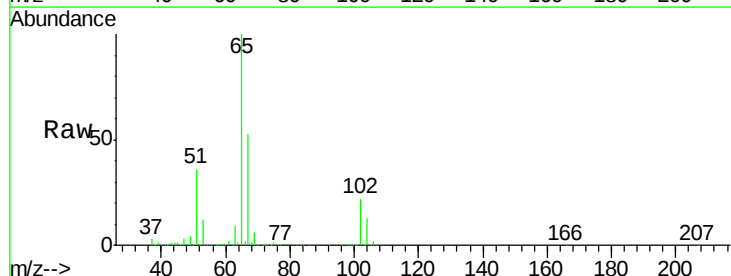
RT: 6.03 min Scan# 811

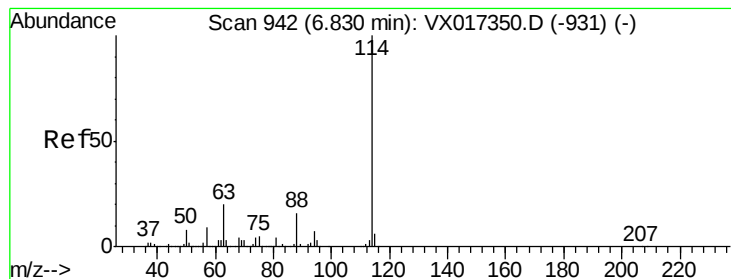
Delta R.T. 0.00 min

Lab File: VX017392.D

Acq: 16 Jul 2020 15:43

Tgt Ion:	65	Resp:	180350
Ion Ratio		Lower	Upper
65	100		
67	52.0	0.0	101.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. 0.00 min

Lab File: VX017392.D

Acq: 16 Jul 2020 15:43

Instrument :

MSVOA_X

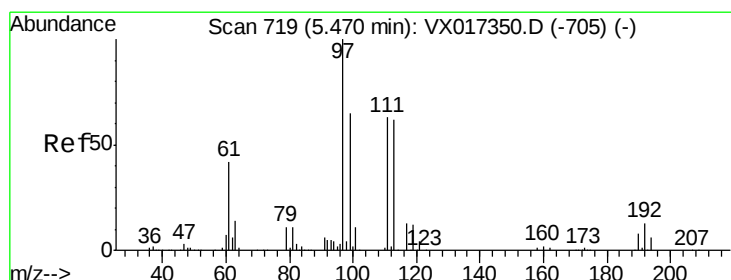
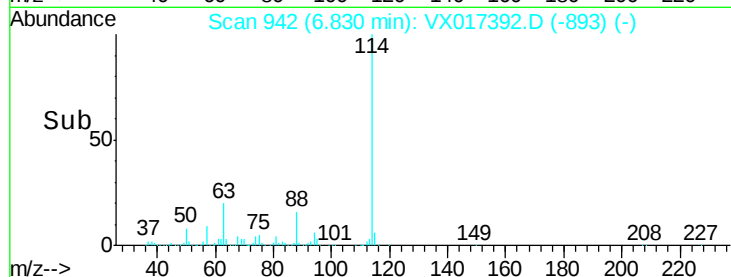
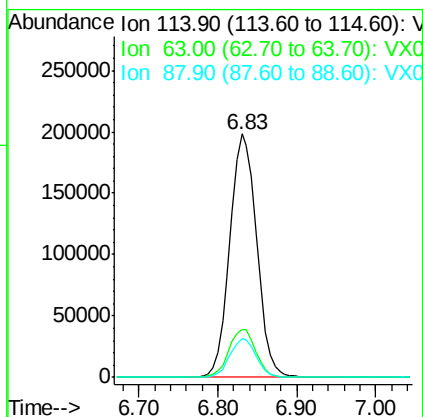
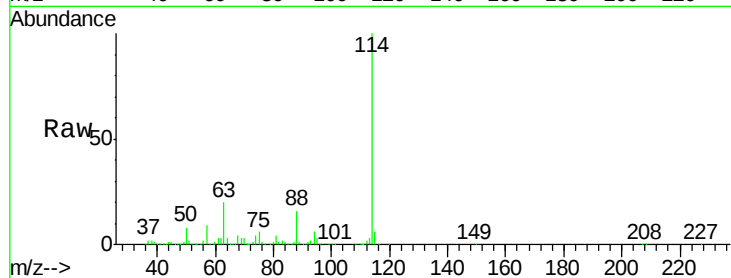
ClientSampleId :

200715084-02-VOA

Tot Ion:	114	Resp:	470718
Ion Ratio		Lower	Upper
114	100		
63	19.6	0.0	40.0
88	15.9	0.0	32.8

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#35

Dibromofluoromethane

Concen: 49.107 ug/l

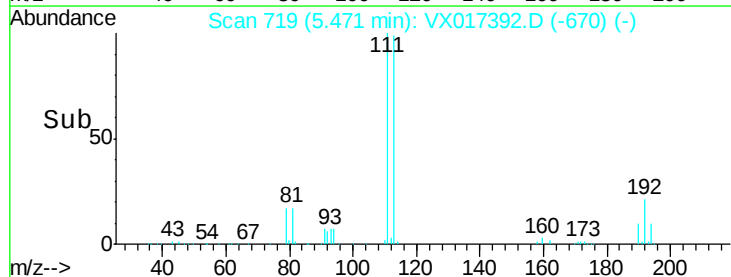
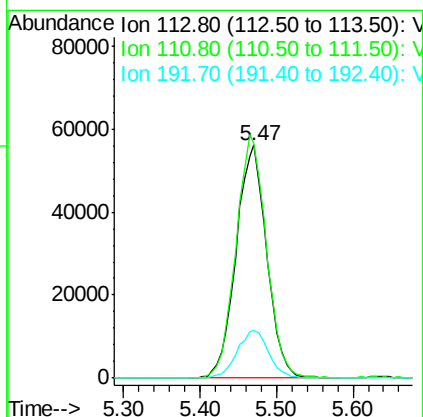
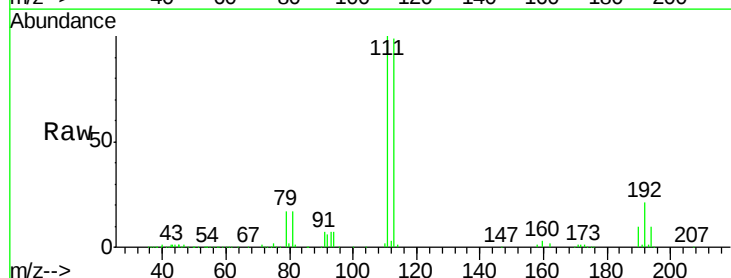
RT: 5.47 min Scan# 719

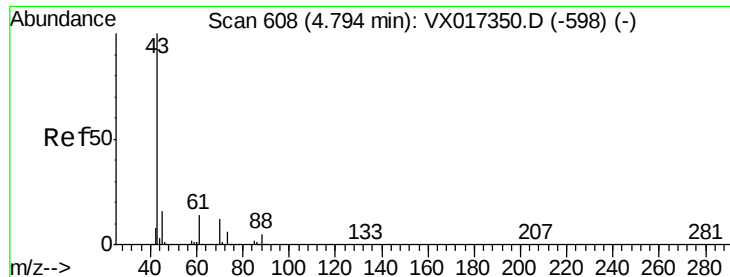
Delta R.T. 0.00 min

Lab File: VX017392.D

Acq: 16 Jul 2020 15:43

Tgt Ion:	113	Resp:	155711
Ion Ratio		Lower	Upper
113	100		
111	103.9	82.4	123.6
192	21.1	17.2	25.8





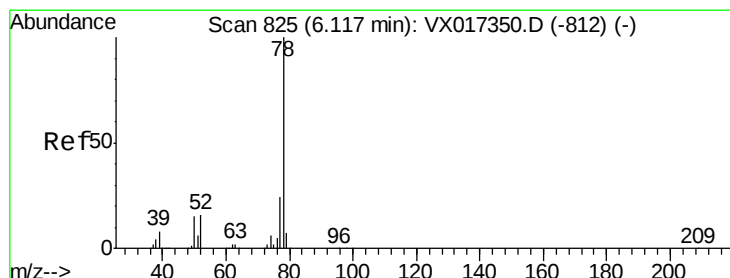
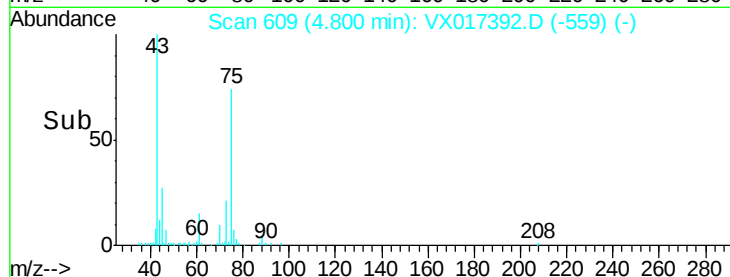
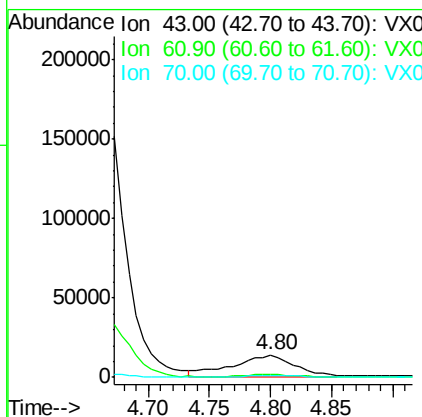
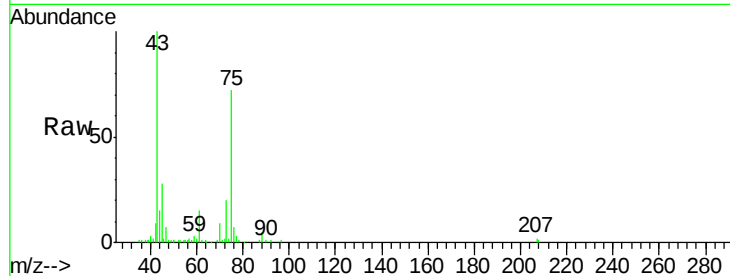
#37
Ethyl Acetate
Concen: 11.418 ug/l m
RT: 4.80 min Scan# 609
Delta R.T. 0.01 min
Lab File: VX017392.D
Acq: 16 Jul 2020 15:43

Instrument :
MSVOA_X
ClientSampleId :
200715084-02-VOA

Tot Ion	Ratio	Lower	Upper
43	100		
61	0.0	10.7	16.1#
70	0.0	9.0	13.6#

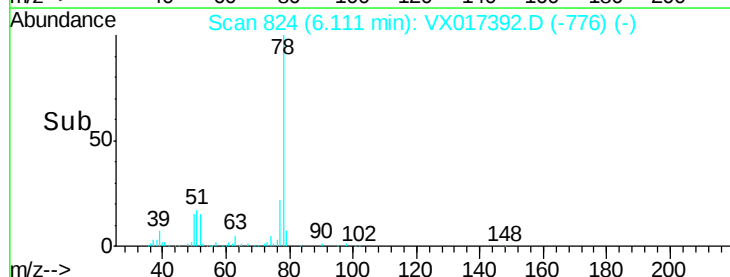
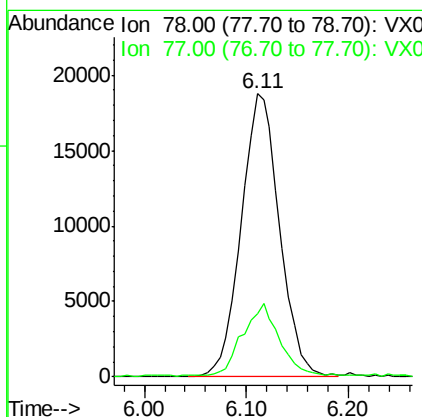
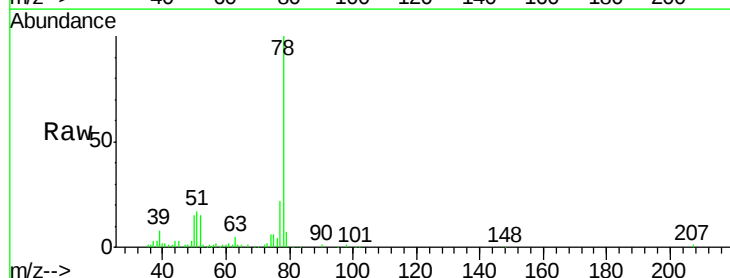
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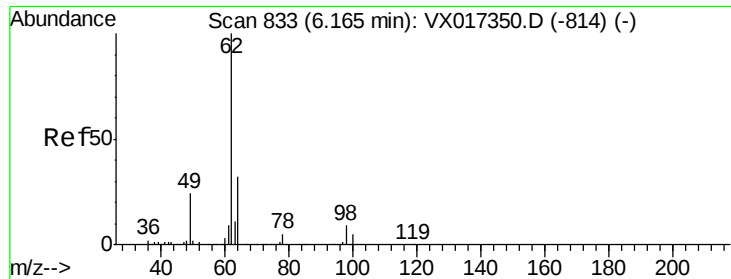
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#40
Benzene
Concen: 3.929 ug/l
RT: 6.11 min Scan# 824
Delta R.T. -0.01 min
Lab File: VX017392.D
Acq: 16 Jul 2020 15:43

Tgt Ion	Ratio	Lower	Upper
78	100		
77	21.9	18.9	28.3





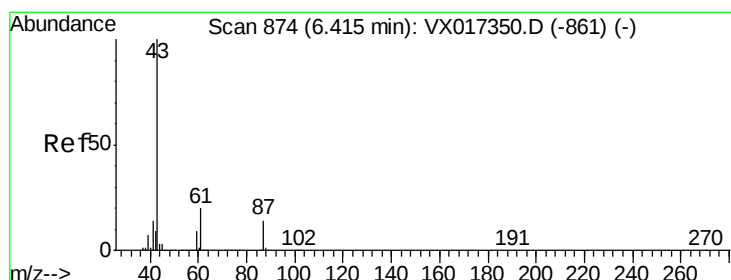
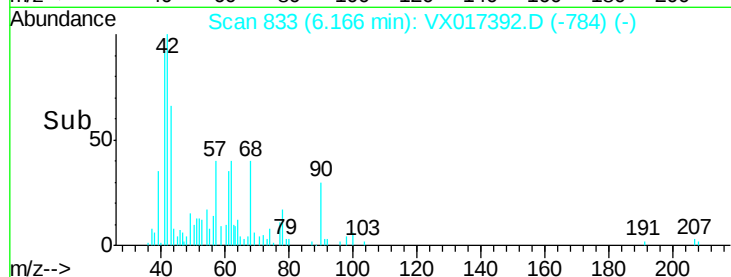
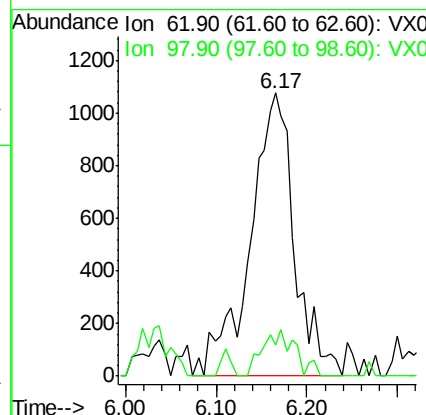
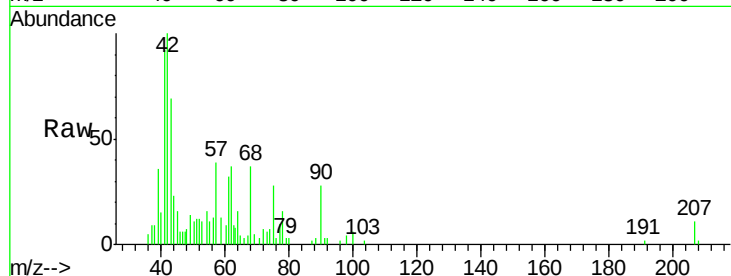
#42
 1,2-Dichloroethane
 Concen: 0.756 ug/l
 RT: 6.17 min Scan# 833
 Delta R.T. 0.00 min
 Lab File: VX017392.D
 Acq: 16 Jul 2020 15:43

Instrument :
 MSVOA_X
 ClientSampleId :
 200715084-02-VOA

Tot Ion	Ratio	Resp	Lower	Upper
62	100	3653		
98	5.6	0.0	19.4	

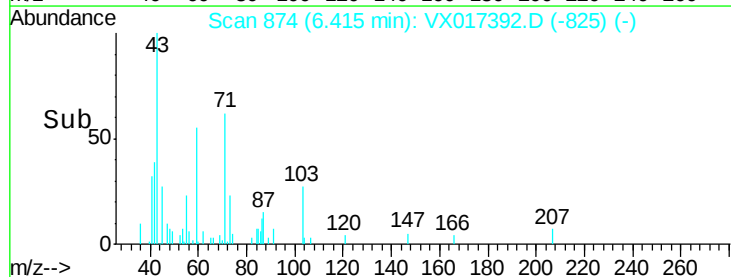
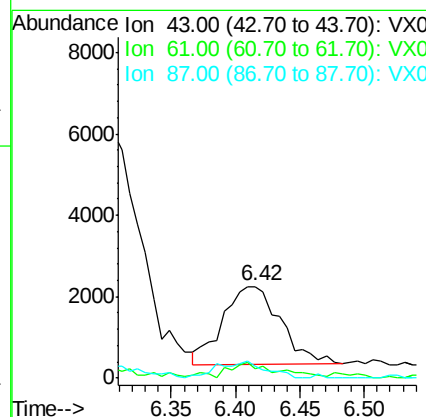
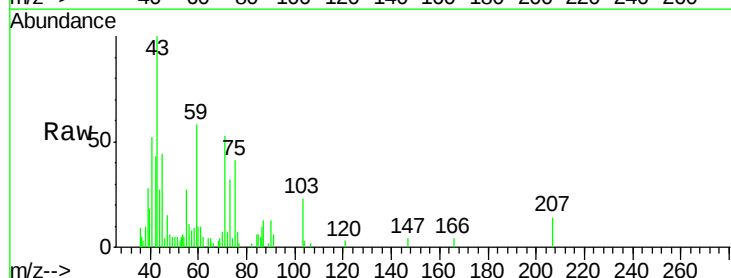
Manual Integrations
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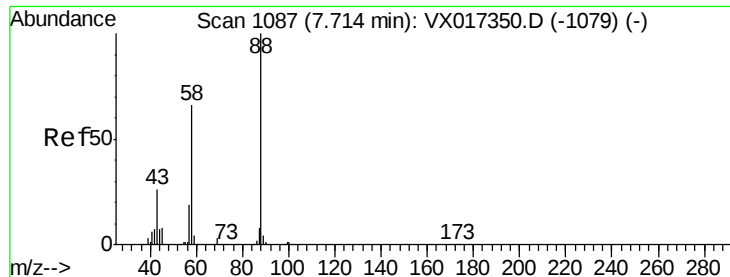
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#43
 Isopropyl Acetate
 Concen: 0.830 ug/l
 RT: 6.42 min Scan# 874
 Delta R.T. 0.00 min
 Lab File: VX017392.D
 Acq: 16 Jul 2020 15:43

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	5939		
61	12.1	16.4	24.6#	
87	18.4	11.2	16.8#	





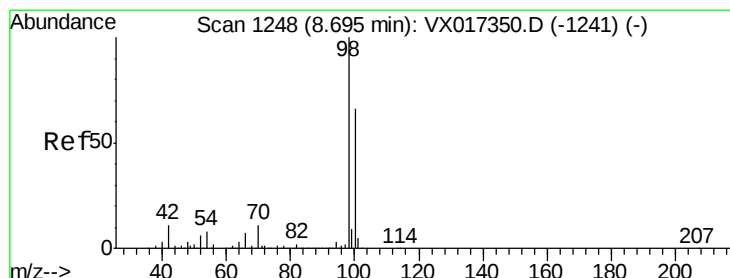
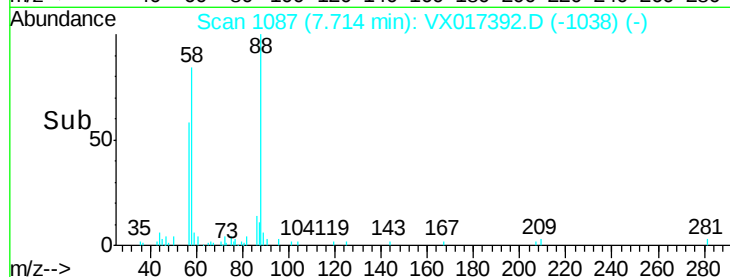
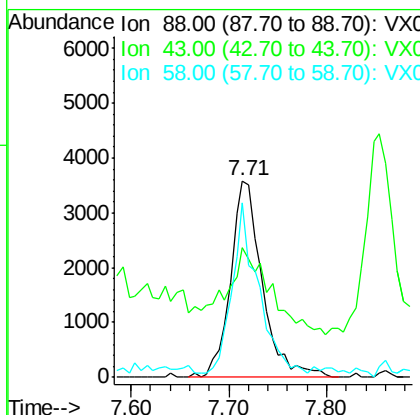
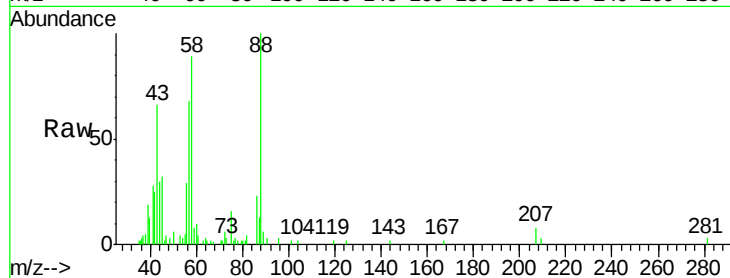
#49
1,4-Dioxane
Concen: 114.413 ug/l
RT: 7.71 min Scan# 1087
Delta R.T. 0.00 min
Lab File: VX017392.D
Acq: 16 Jul 2020 15:43

Instrument :
MSVOA_X
ClientSampleId :
200715084-02-VOA

Tot Ion	Ratio	Lower	Upper
88	100		
43	63.2	25.6	38.4#
58	71.1	53.9	80.9

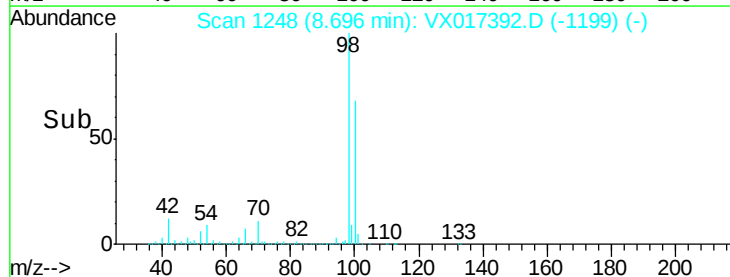
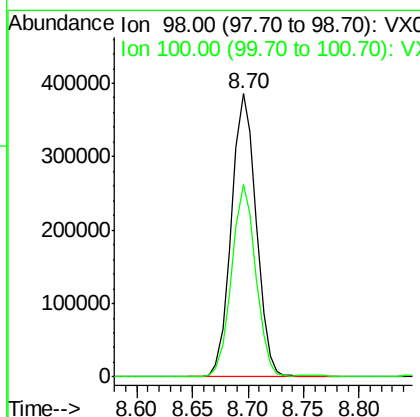
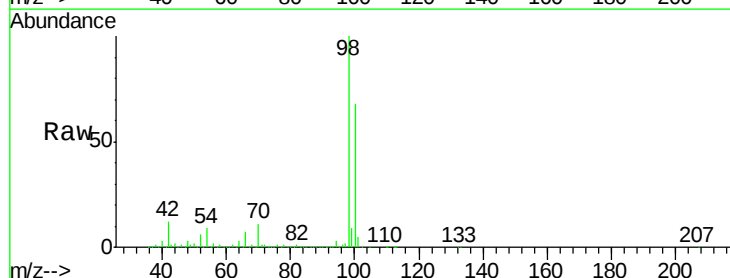
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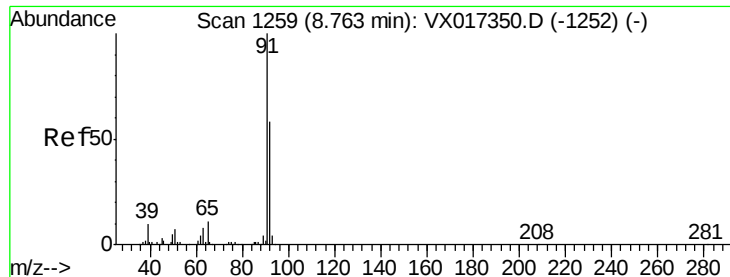
MMDadoda
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#50
Toluene-d8
Concen: 52.247 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VX017392.D
Acq: 16 Jul 2020 15:43

Tgt Ion	Ratio	Lower	Upper
98	100		
100	65.5	53.4	80.2





#52

Toluene

Concen: 4.120 ug/l

RT: 8.76 min Scan# 1259

Delta R.T. 0.00 min

Lab File: VX017392.D

Acq: 16 Jul 2020 15:43

Instrument :

MSVOA_X

ClientSampleId :

200715084-02-VOA

Tot Ion: 92 Resp: 32895

Ion Ratio Lower Upper

92 100

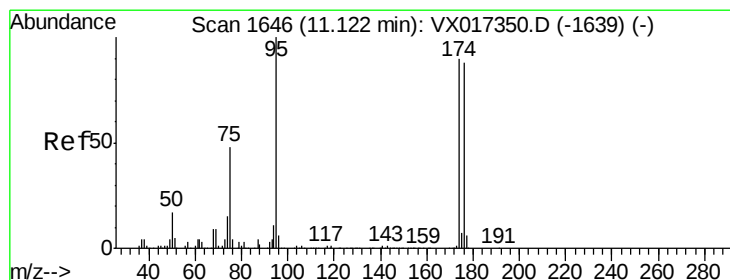
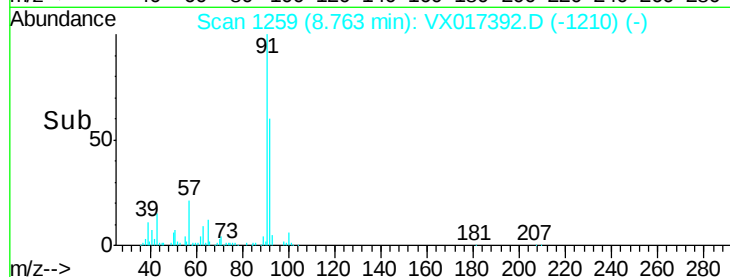
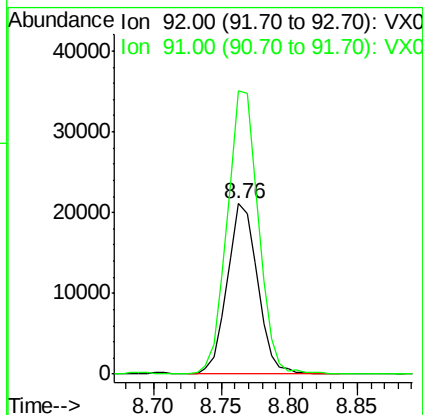
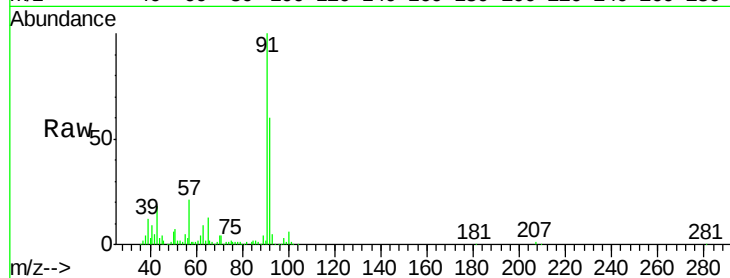
91 170.7 136.7 205.1

Manual Integrations

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#62

4-Bromofluorobenzene

Concen: 58.055 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX017392.D

Acq: 16 Jul 2020 15:43

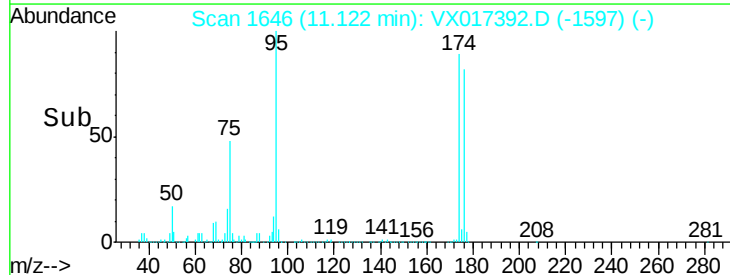
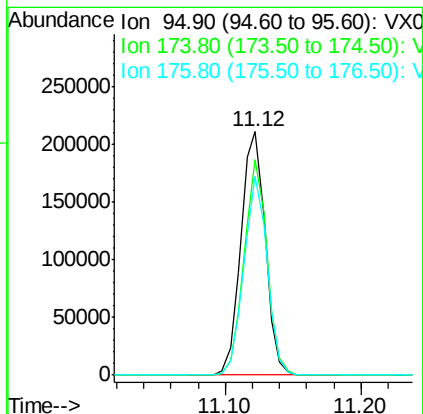
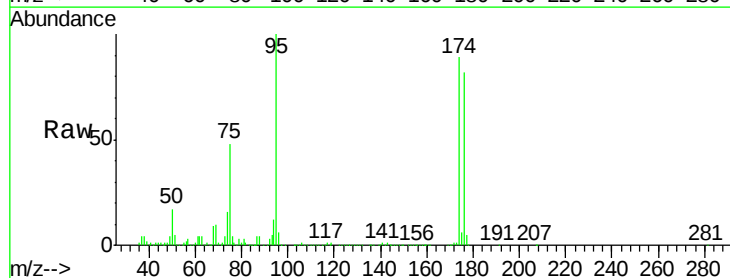
Tgt Ion: 95 Resp: 263758

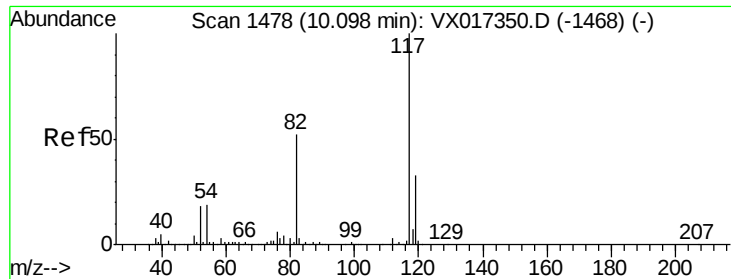
Ion Ratio Lower Upper

95 100

174 84.1 0.0 175.8

176 78.5 0.0 164.6





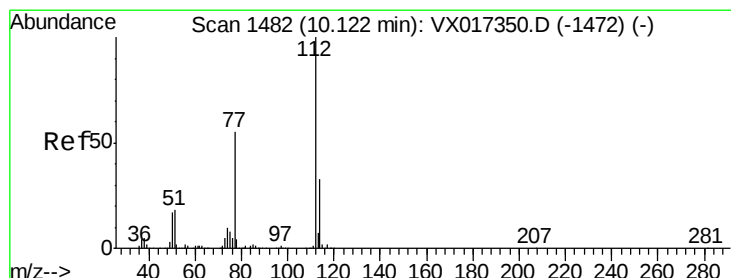
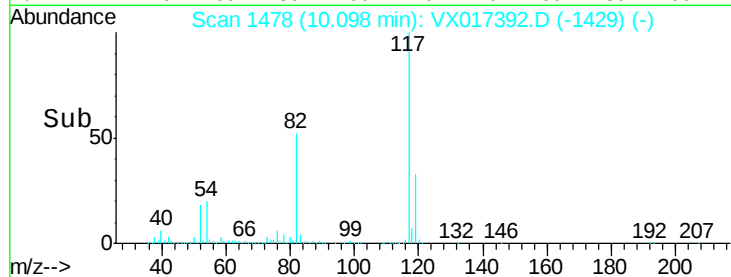
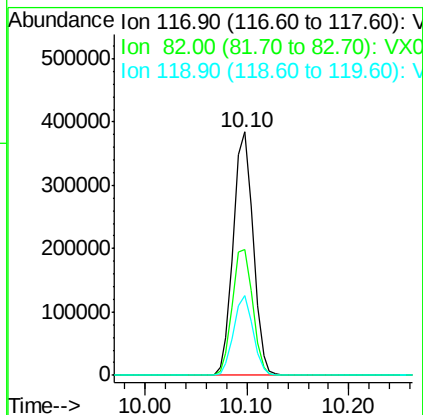
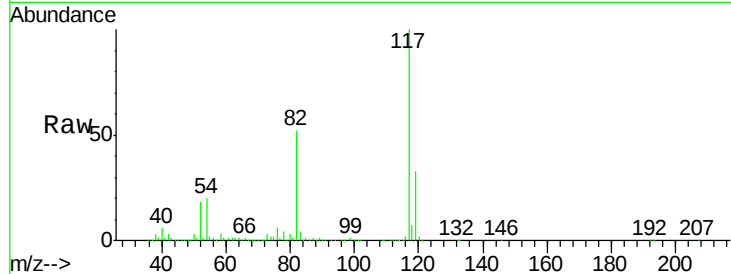
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.00 min
Lab File: VX017392.D
Acq: 16 Jul 2020 15:43

Instrument :
MSVOA_X
ClientSampleId :
200715084-02-VOA

Tot Ion	Ratio	Resp	Lower	Upper
117	100	514569		
82	51.6	42.0	63.0	
119	32.7	26.3	39.5	

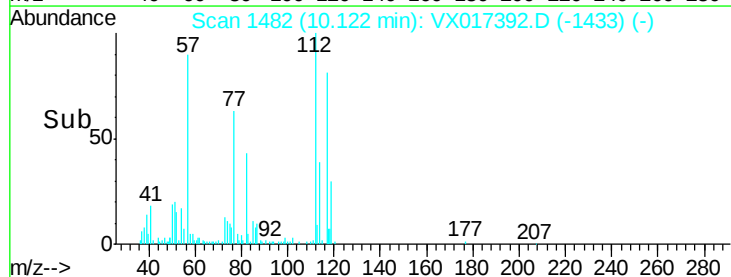
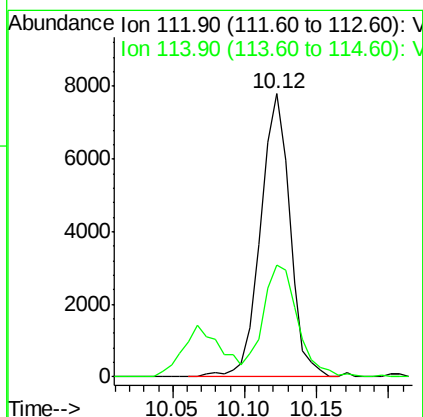
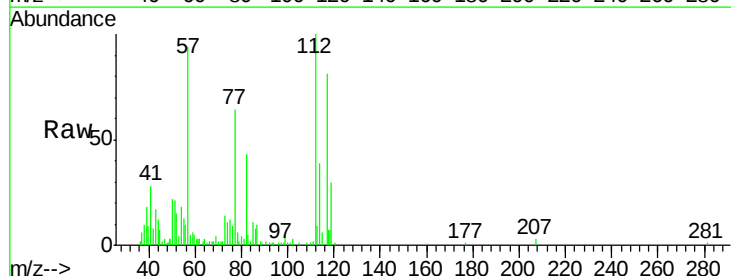
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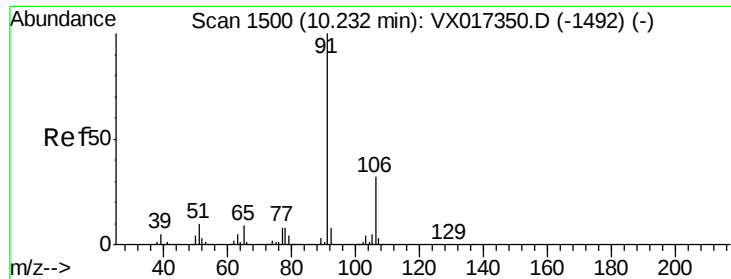
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#65
Chlorobenzene
Concen: 1.049 ug/l
RT: 10.12 min Scan# 1482
Delta R.T. 0.00 min
Lab File: VX017392.D
Acq: 16 Jul 2020 15:43

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	10974		
114	38.6	26.0	39.0	





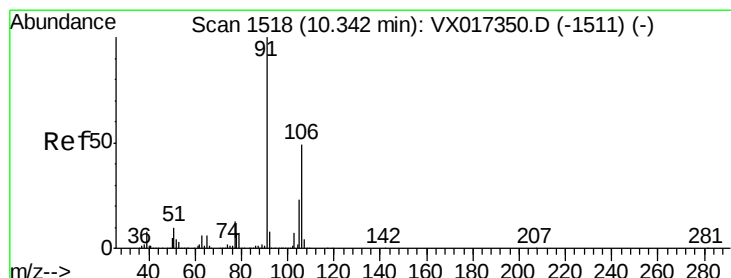
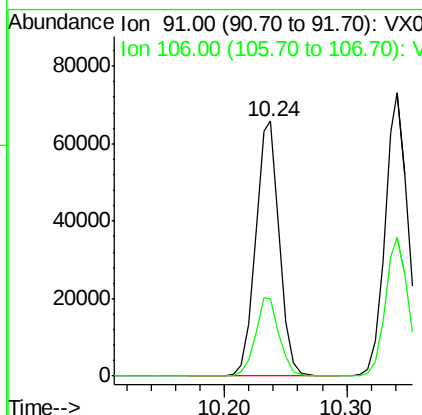
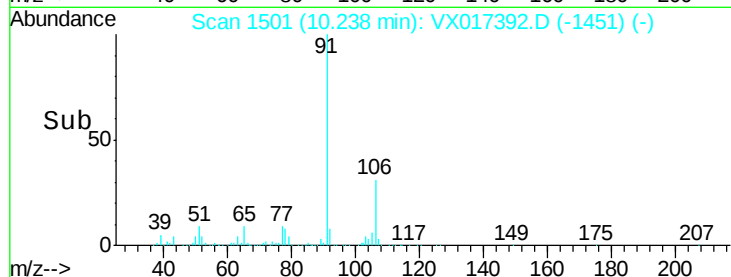
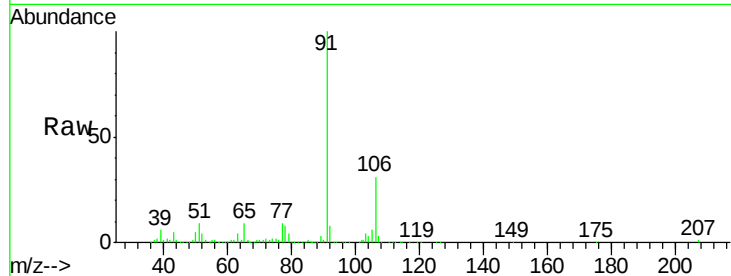
#67
Ethyl Benzene
Concen: 5.105 ug/l
RT: 10.24 min Scan# 1501
Delta R.T. 0.01 min
Lab File: VX017392.D
Acq: 16 Jul 2020 15:43

Instrument :
MSVOA_X
ClientSampleId :
200715084-02-VOA

Tot Ion: 91 Resp: 88873
Ion Ratio Lower Upper
91 100
106 30.5 25.7 38.5

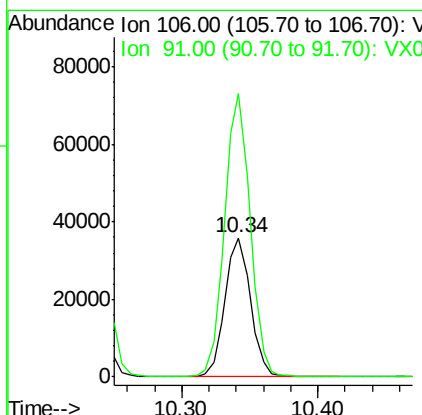
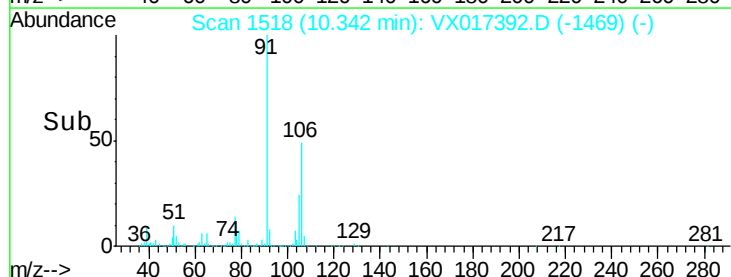
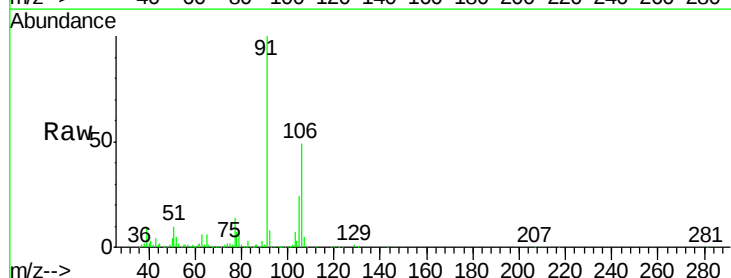
Manual Integrations
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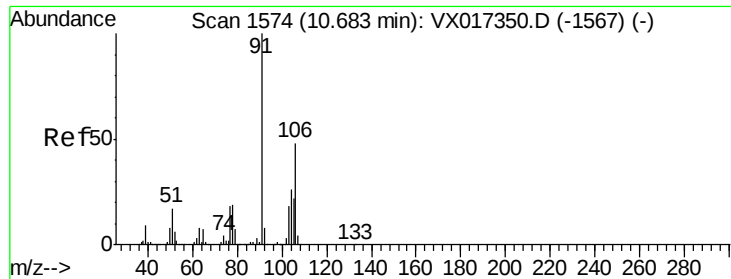
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#68
m/p-Xylenes
Concen: 7.124 ug/l
RT: 10.34 min Scan# 1518
Delta R.T. 0.00 min
Lab File: VX017392.D
Acq: 16 Jul 2020 15:43

Tgt Ion: 106 Resp: 47189
Ion Ratio Lower Upper
106 100
91 202.5 162.5 243.7





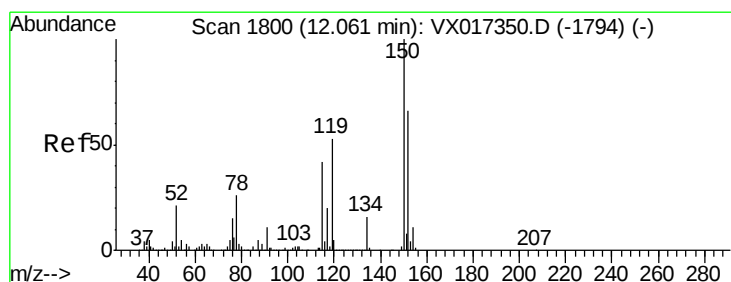
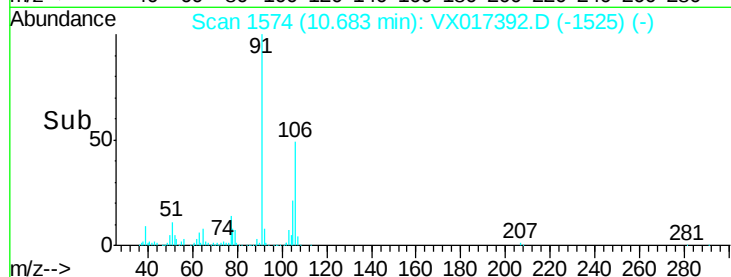
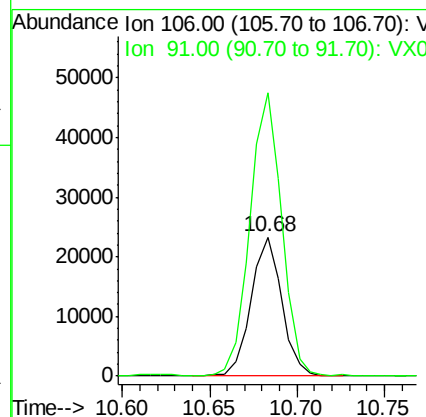
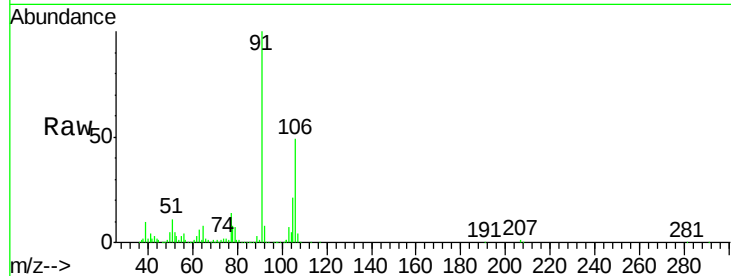
#69
o-Xylene
Concen: 4.514 ug/l
RT: 10.68 min Scan# 1574
Delta R.T. 0.00 min
Lab File: VX017392.D
Acq: 16 Jul 2020 15:43

Instrument :
MSVOA_X
ClientSampleId :
200715084-02-VOA

Tot Ion:106 Resp: 28569
Ion Ratio Lower Upper
106 100
91 207.6 106.1 318.1

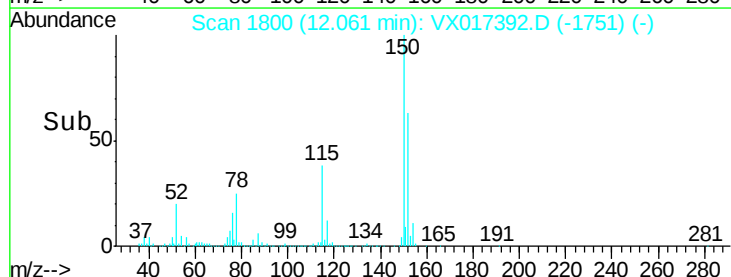
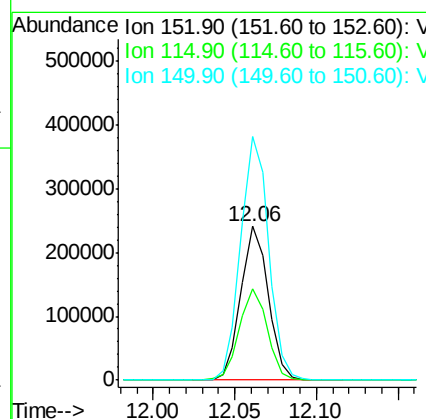
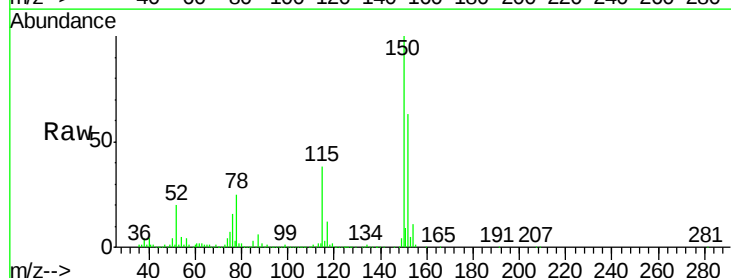
Manual Integrations
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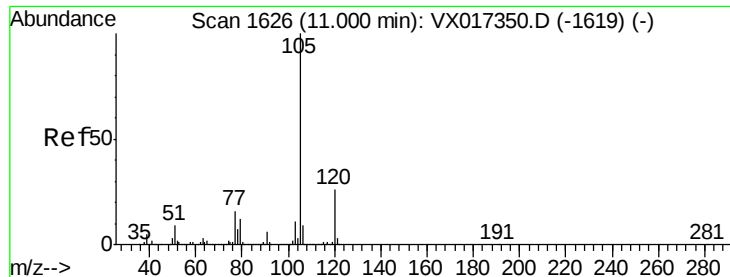
MMDadoda
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#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. 0.00 min
Lab File: VX017392.D
Acq: 16 Jul 2020 15:43

Tgt Ion:152 Resp: 284897
Ion Ratio Lower Upper
152 100
115 59.9 39.9 119.7
150 161.4 0.0 343.4





#73

Isopropylbenzene

Concen: 0.492 ug/l

RT: 11.00 min Scan# 1626

Delta R.T. 0.00 min

Lab File: VX017392.D

Acq: 16 Jul 2020 15:43

Instrument :

MSVOA_X

ClientSampleId :

200715084-02-VOA

Tot Ion:105 Resp: 8779

Ion Ratio Lower Upper

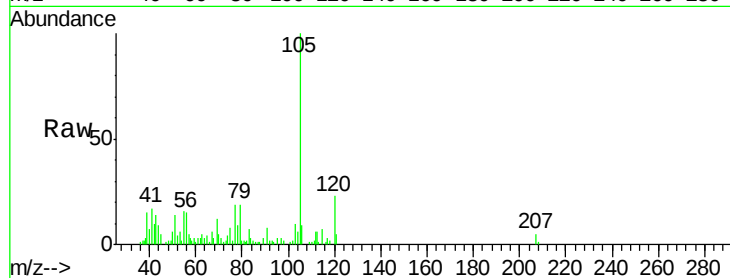
105 100

120 29.3 13.3 39.8

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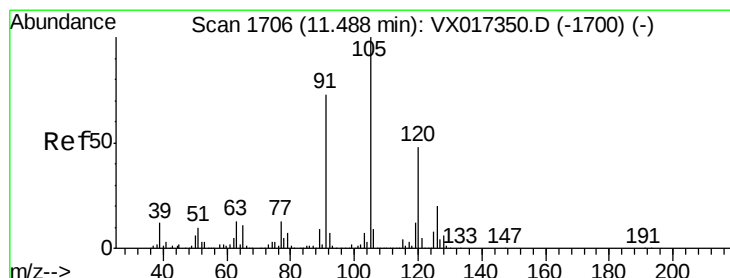
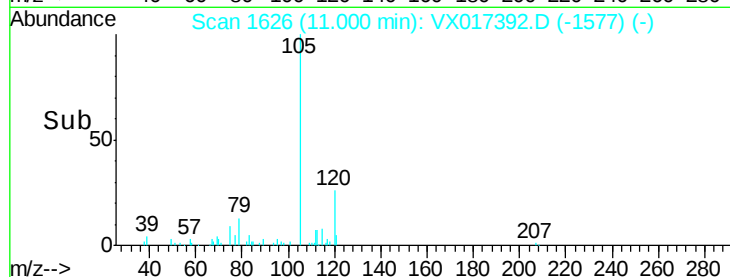
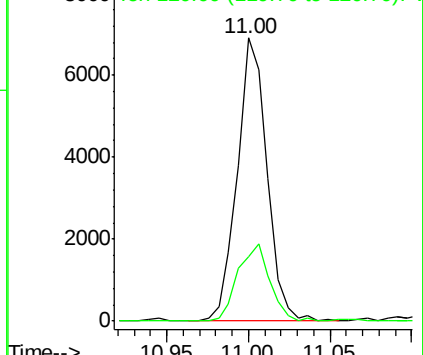
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#80

1,3,5-Trimethylbenzene

Concen: 0.522 ug/l

RT: 11.49 min Scan# 1706

Delta R.T. 0.00 min

Lab File: VX017392.D

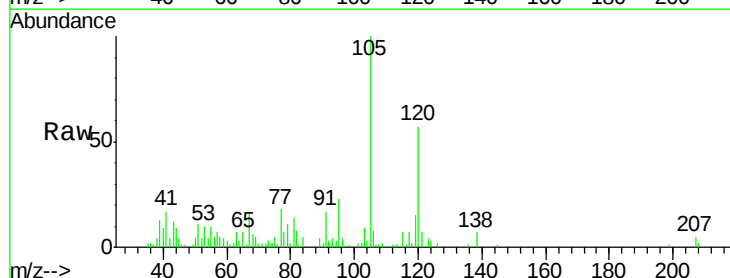
Acq: 16 Jul 2020 15:43

Tgt Ion:105 Resp: 7919

Ion Ratio Lower Upper

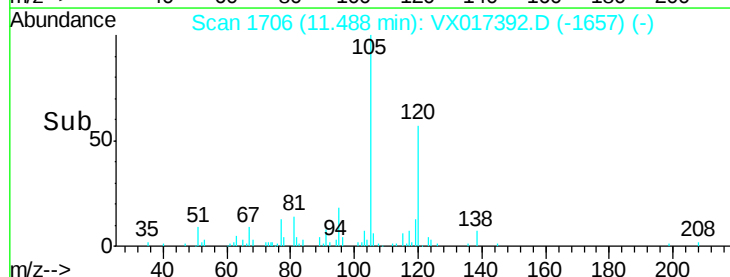
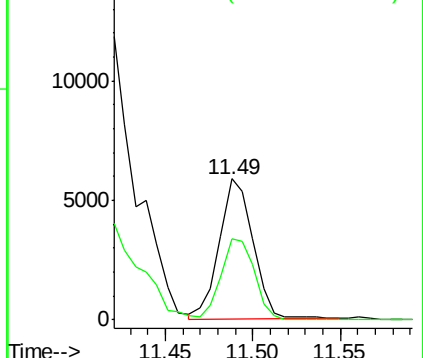
105 100

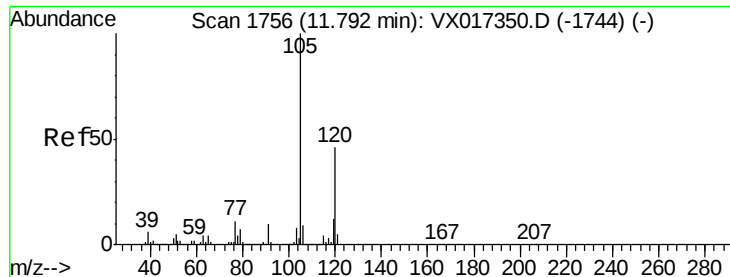
120 56.4 24.8 74.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





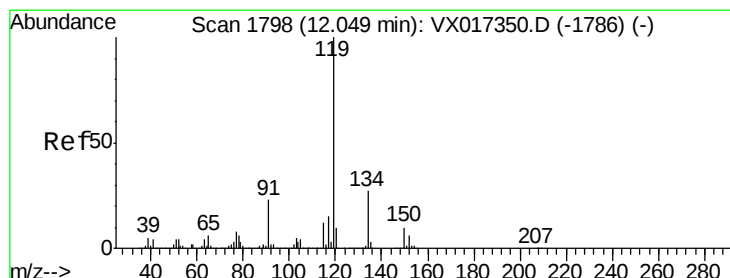
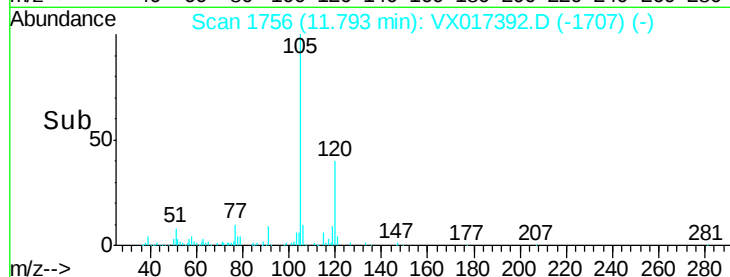
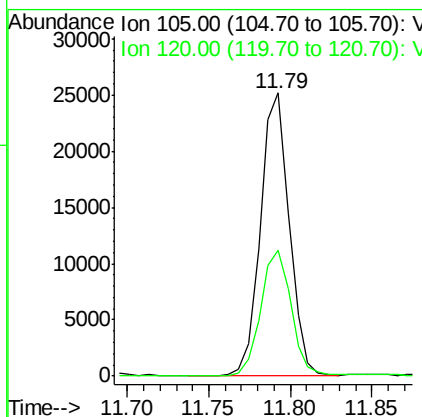
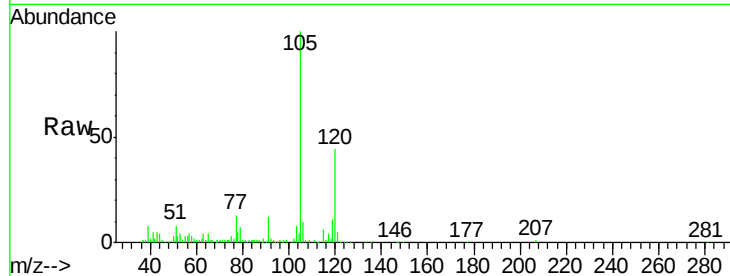
#84
1,2,4-Trimethylbenzene
Concen: 2.028 ug/l
RT: 11.79 min Scan# 1756
Delta R.T. 0.00 min
Lab File: VX017392.D
Acq: 16 Jul 2020 15:43

Instrument :
MSVOA_X
ClientSampleId :
200715084-02-VOA

Tot Ion	Ratio	Lower	Upper
105	100		
120	47.6	22.8	68.4

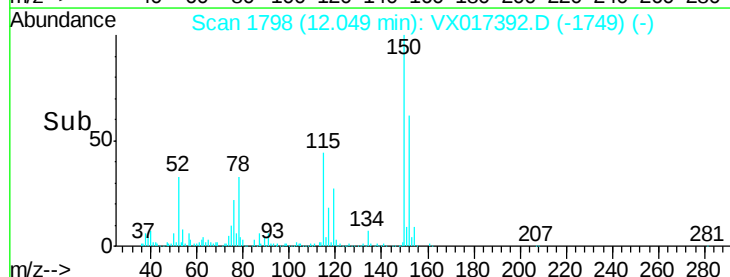
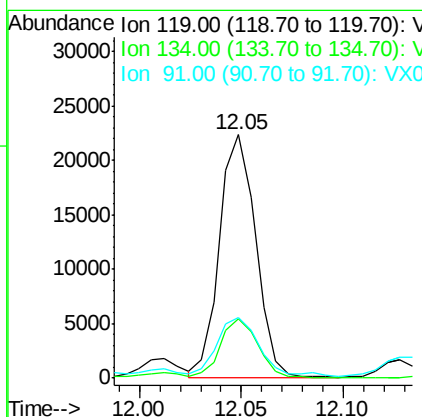
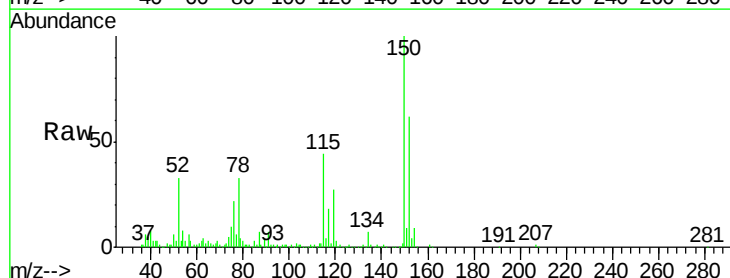
Manual Integrations
APPROVED

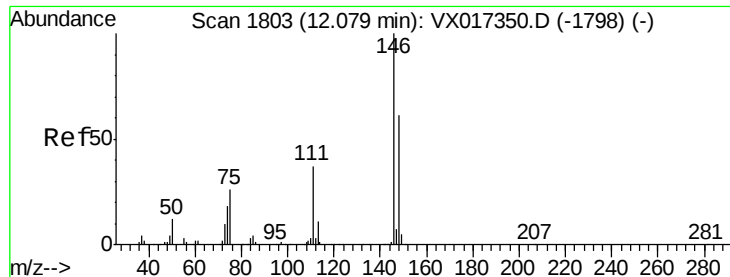
MMDadoda
7/17/2020 4:44:15 PM



#86
p-Isopropyltoluene
Concen: 1.691 ug/l
RT: 12.05 min Scan# 1798
Delta R.T. 0.00 min
Lab File: VX017392.D
Acq: 16 Jul 2020 15:43

Tgt Ion	Ratio	Lower	Upper
119	100		
134	25.3	13.5	40.5
91	28.8	11.8	35.3





#88

1,4-Dichlorobenzene

Concen: 2.804 ug/l

RT: 12.08 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VX017392.D

Acq: 16 Jul 2020 15:43

Instrument :

MSVOA_X

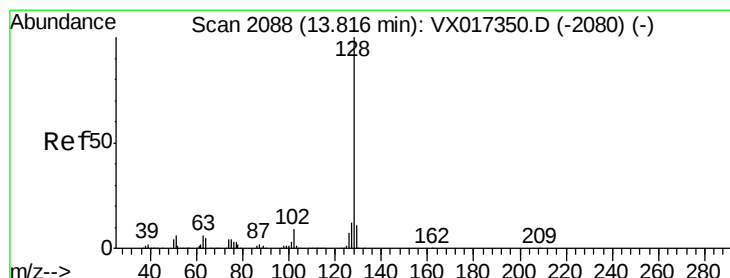
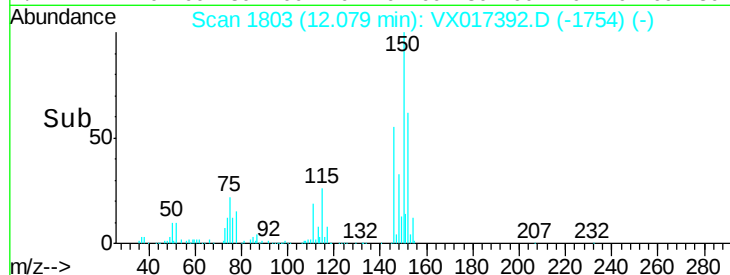
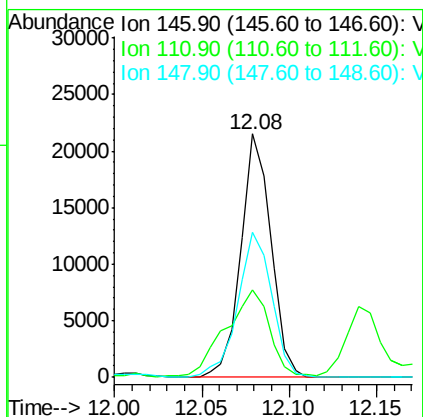
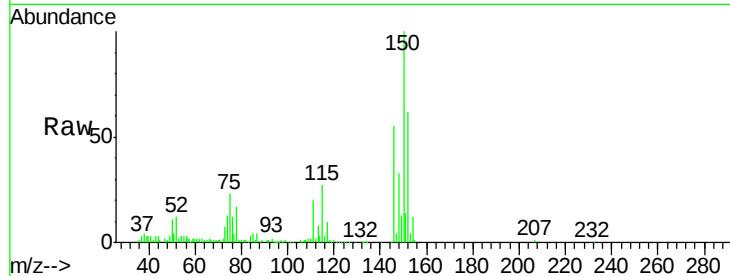
ClientSampleId :

200715084-02-VOA

Tot Ion:	146	Resp:	25779
Ion Ratio	Lower	Upper	
146	100		
111	51.7	18.9	56.9
148	67.3	31.9	95.9

Manual Integrations
APPROVED

MMDadoda
7/17/2020 4:44:15 PM



#95

Naphthalene

Concen: 19.169 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. 0.00 min

Lab File: VX017392.D

Acq: 16 Jul 2020 15:43

Tgt Ion:	128	Resp:	334557
Ion Ratio	Lower	Upper	
128	100		
127	12.6	10.2	15.4
129	11.0	8.9	13.3

