

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX100220\
 Data File : VX018756.D
 Acq On : 02 Oct 2020 18:41
 Operator : JC/SP
 Sample : L4239-03
 Misc : 25.0mL/MSVOA X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BG3N2

Manual Integrations
 APPROVED

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 10/6/2020 1:25:29 PM

Quant Time: Oct 03 07:34:30 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\SOMXTR100220WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Oct 02 14:11:08 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.83	114	253198	5.00	ug/L	0.00
28) Chlorobenzene-d5	10.10	117	244113	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	12.07	152	130317	5.00	ug/L	0.01

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	92927	6.28	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	125.60%
7) Chloroethane-d5	1.70	69	60391	5.22	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	104.40%
11) 1,1-Dichloroethene-d2	2.36	63	426760	12.79	ug/L	0.01
Spiked Amount	5.000	Range	60 - 125	Recovery	=	255.80%#
20) 2-Butanone-d5	4.57	46	200689	51.73	ug/L	0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	103.46%
24) Chloroform-d	5.15	84	162957	4.55	ug/L	0.01
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.00%
26) 1,2-Dichloroethane-d4	6.03	65	97553	4.47	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	89.40%
32) Benzene-d6	6.05	84	303376	5.00	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	100.00%
36) 1,2-Dichloropropane-d6	7.37	67	88910	5.07	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	101.40%
41) Toluene-d8	8.71	98	299862	5.01	ug/L	0.02
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.20%
45) trans-1,3-Dichloropropene-	9.00	79	41882	4.44	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	88.80%
48) 2-Hexanone-d5	9.43	63	176073	55.68	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	111.36%
59) 1,1,2,2-Tetrachloroethane-	11.24	84	69999	4.91	ug/L	0.01
Spiked Amount	5.000	Range	65 - 120	Recovery	=	98.20%
65) 1,2-Dichlorobenzene-d4	12.37	152	126775	5.27	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	105.40%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.39	62	637436	46.659	ug/L #	80
8) Chloroethane	1.71	64	221182	26.692	ug/L	91
10) 1,1,2-Trichloro-1,2,2-trif	2.36	101	4925	0.346	ug/L #	59
12) 1,1-Dichloroethene	2.36	96	531754	42.160	ug/L #	64
14) Carbon disulfide	2.56	76	21329	0.540	ug/L	99
18) trans-1,2-Dichloroethene	3.14	96	237792	17.607	ug/L	96
19) 1,1-Dichloroethane	3.67	63	6923520	288.375	ug/L	97
22) cis-1,2-Dichloroethene	4.57	96	24903758	1788.077	ug/L #	80
29) 1,1,1-Trichloroethane	5.46	97	37125898m	1285.599	ug/L	
30) Cyclohexane	5.56	56	2387103	119.181	ug/L	98
33) Benzene	6.11	78	127263	2.490	ug/L	100
34) Trichloroethene	7.19	95	28450	1.885	ug/L	97
35) Methylcyclohexane	7.45	83	10232	0.478	ug/L #	65
42) Toluene	8.76	91	49576296m	886.287	ug/L	
47) 1,1,2-Trichloroethane	9.20	97	2274	0.235	ug/L #	88
49) Tetrachloroethene	9.32	164	9729	0.737	ug/L	97
53) Chlorobenzene	10.12	112	964424	25.206	ug/L	93

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) Ethylbenzene	10.24	91	16934278	270.063	ug/L #	54
55) m,p-xylene	10.35	106	21286210m	870.281	ug/L	
56) o-xylene	10.69	106	14990443	663.200	ug/L #	26
58) Isopropylbenzene	11.01	105	7048979	111.395	ug/L	98
63) 1,3-Dichlorobenzene	12.02	146	206407	6.516	ug/L	97
64) 1,4-Dichlorobenzene	12.09	146	285395	9.035	ug/L	97
66) 1,2-Dichlorobenzene	12.38	146	1280684	43.304	ug/L	99
69) 1,2,4-trichlorobenzene	13.63	180	130012	6.423	ug/L	92
71) 1,2,3-Trichlorobenzene	14.00	180	55310	3.037	ug/L #	87

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

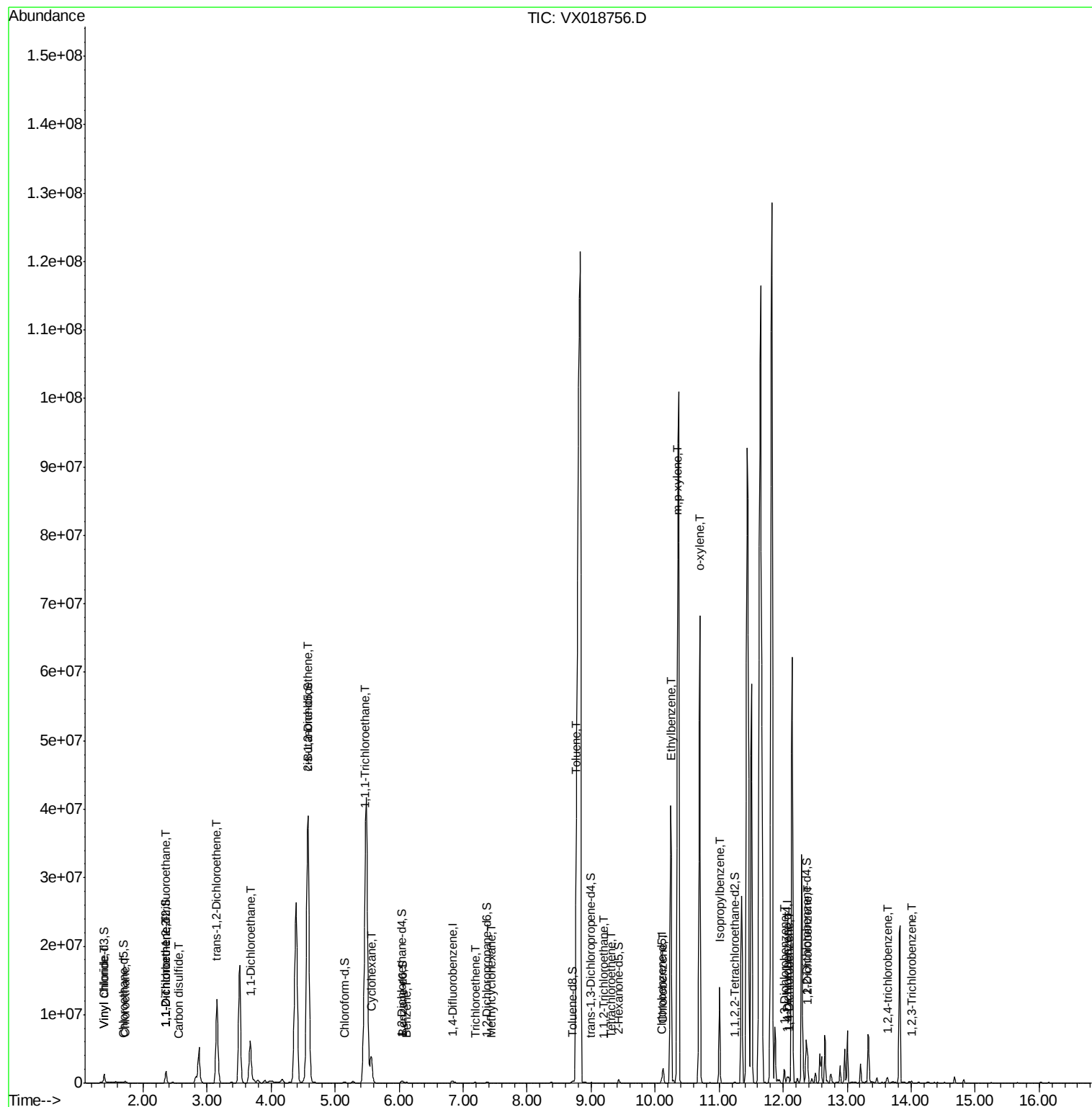
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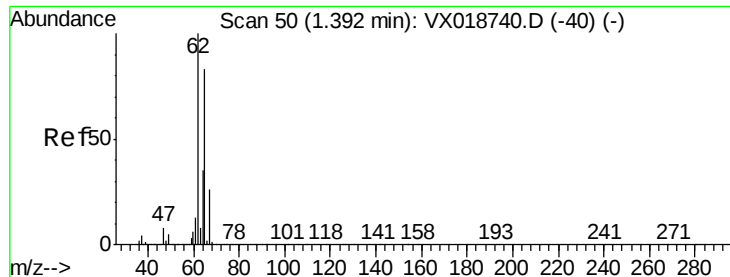
Instrument :
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#5

Vinyl chloride

Concen: 46.659 ug/L

RT: 1.39 min Scan# 50

Delta R.T. 0.00 min

Lab File: VX018756.D

Acq: 02 Oct 2020 18:41

Instrument :

MSVOA_X

ClientSampleId :

BG3N2

Tot Ion: 62 Resp: 637436

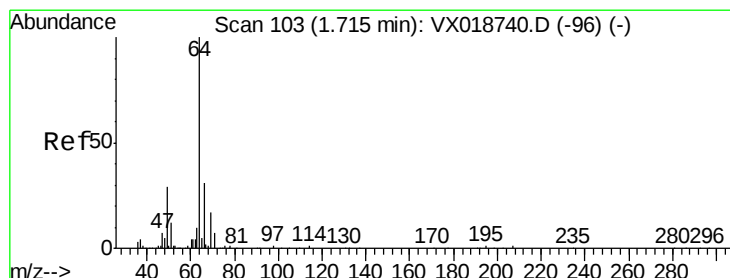
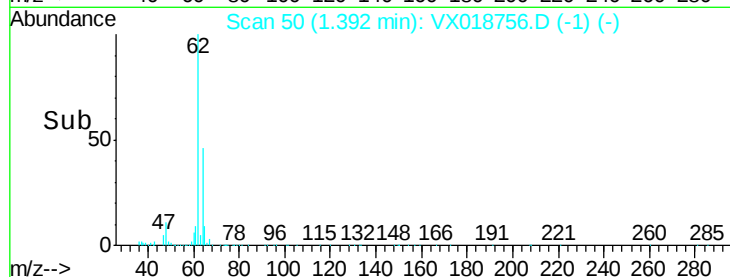
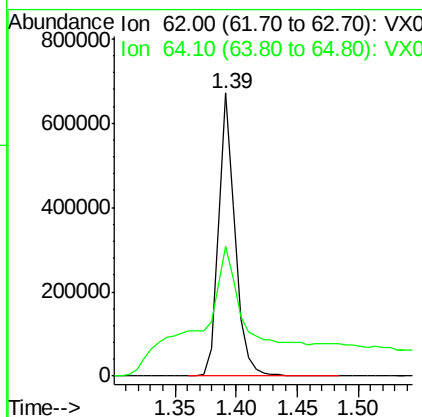
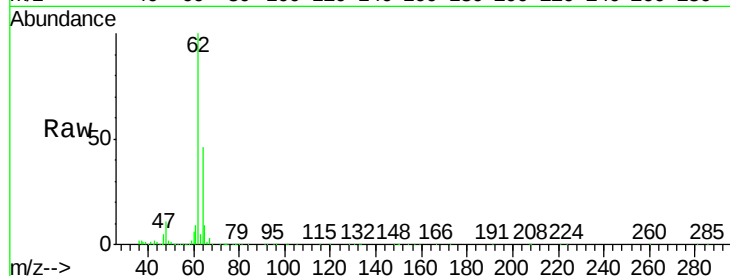
Ion Ratio Lower Upper

62 100

64 46.1 24.3 45.1#

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#8

Chloroethane

Concen: 26.692 ug/L

RT: 1.71 min Scan# 103

Delta R.T. 0.00 min

Lab File: VX018756.D

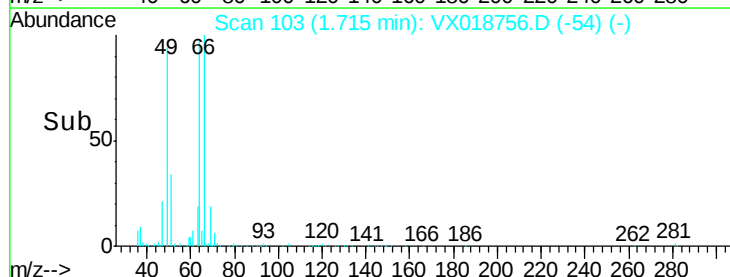
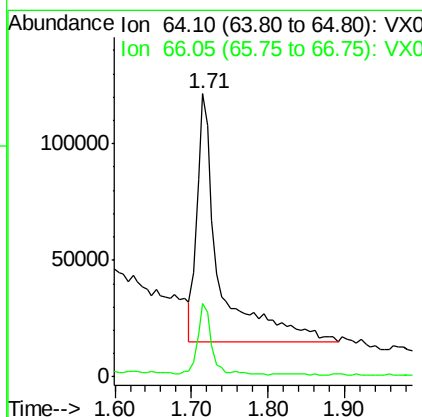
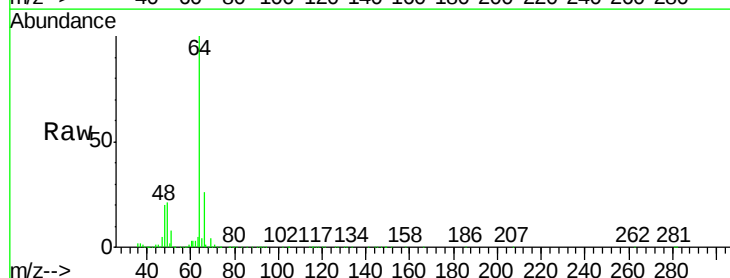
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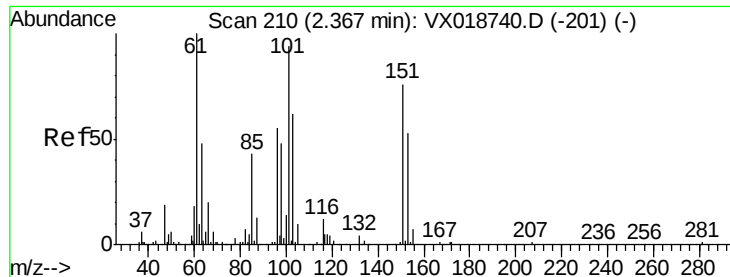
Tgt Ion: 64 Resp: 221182

Ion Ratio Lower Upper

64 100

66 25.9 21.5 39.9





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.346 ug/L

RT: 2.36 min Scan# 209

Delta R.T. -0.01 min

Lab File: VX018756.D

Acq: 02 Oct 2020 18:41

Instrument :

MSVOA_X

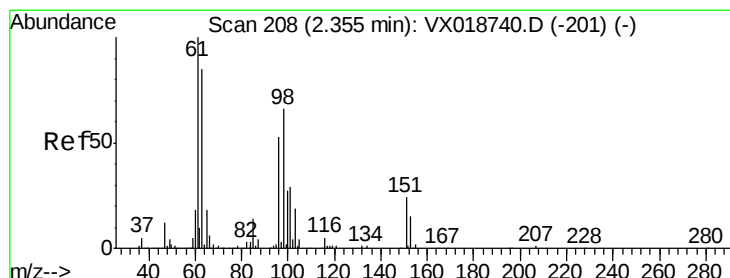
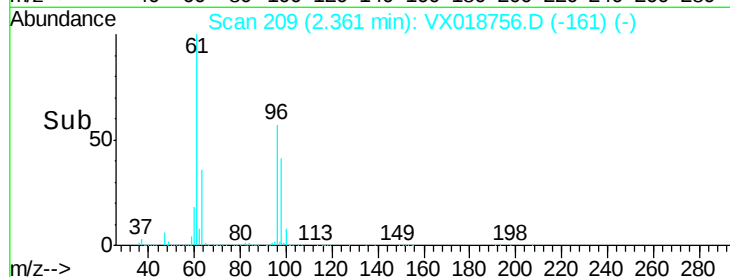
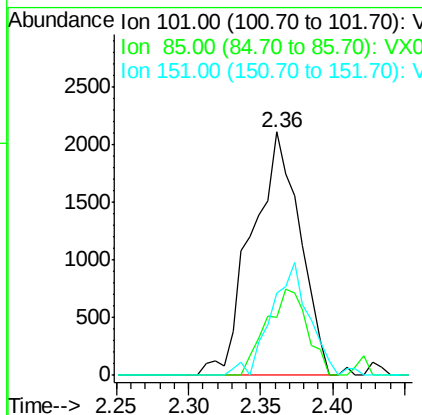
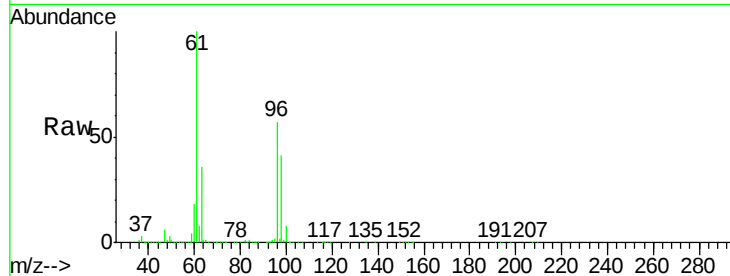
ClientSampleId :

BG3N2

Tot Ion:	101	Resp:	4925
Ion Ratio	Lower	Upper	
101	100		
85	29.9	37.1	55.7#
151	37.2	65.0	97.6#

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#12

1,1-Dichloroethene

Concen: 42.160 ug/L

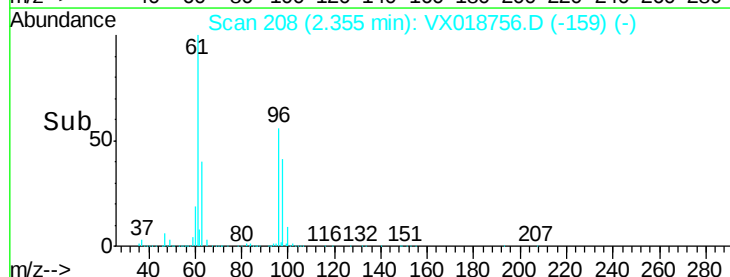
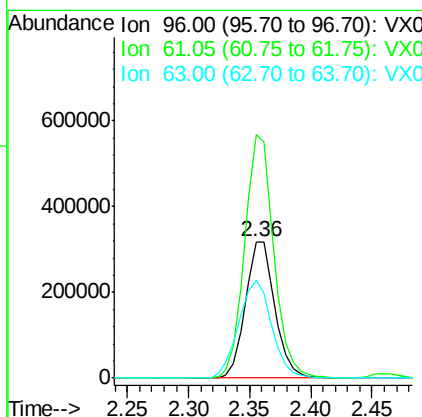
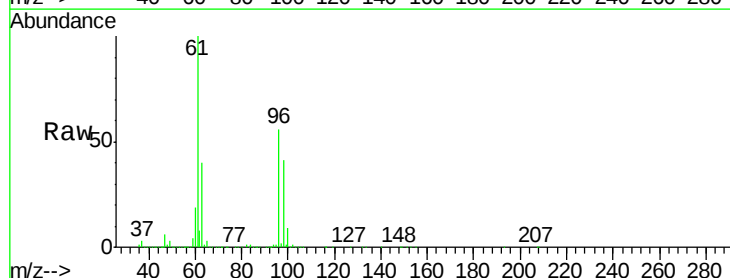
RT: 2.36 min Scan# 208

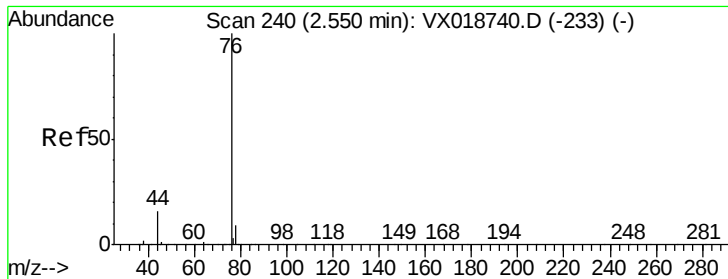
Delta R.T. 0.00 min

Lab File: VX018756.D

Acq: 02 Oct 2020 18:41

Tgt Ion:	96	Resp:	531754
Ion Ratio	Lower	Upper	
96	100		
61	178.5	133.2	247.4
63	71.8	115.1	213.7#





#14

Carbon disulfide

Concen: 0.540 ug/L

RT: 2.56 min Scan# 241

Delta R.T. 0.01 min

Lab File: VX018756.D

Acq: 02 Oct 2020 18:41

Instrument :

MSVOA_X

ClientSampleId :

BG3N2

Tot Ion: 76 Resp: 21329

Ion Ratio Lower Upper

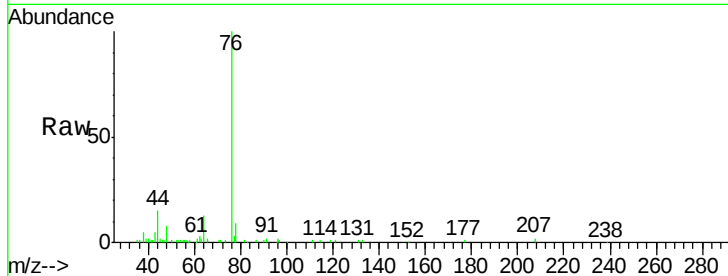
76 100

78 9.0 7.4 11.2

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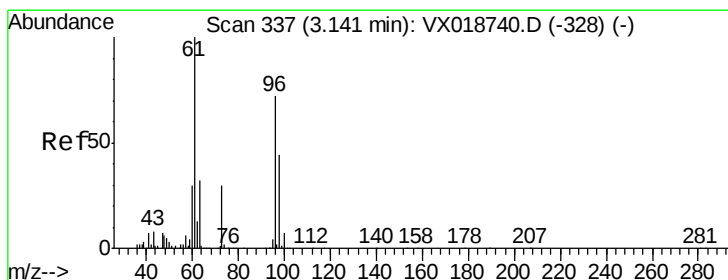
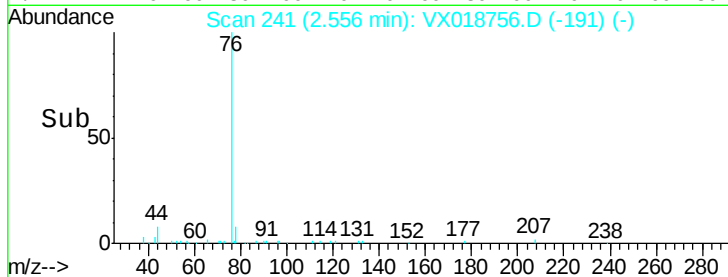
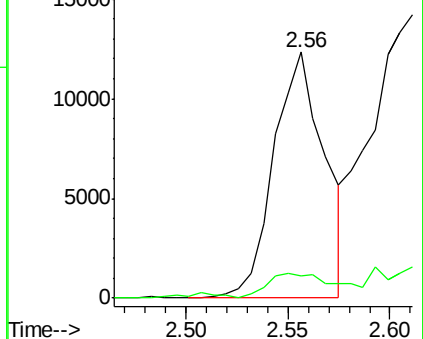
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Abundance Ion 76.05 (75.75 to 76.75): VX0

Ion 78.00 (77.70 to 78.70): VX0



#18

trans-1,2-Dichloroethene

Concen: 17.607 ug/L

RT: 3.14 min Scan# 337

Delta R.T. 0.00 min

Lab File: VX018756.D

Acq: 02 Oct 2020 18:41

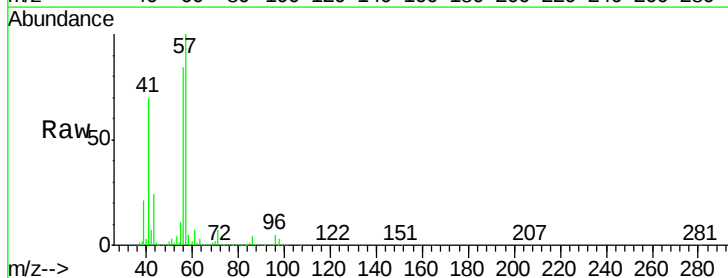
Tgt Ion: 96 Resp: 237792

Ion Ratio Lower Upper

96 100

61 145.4 97.6 181.4

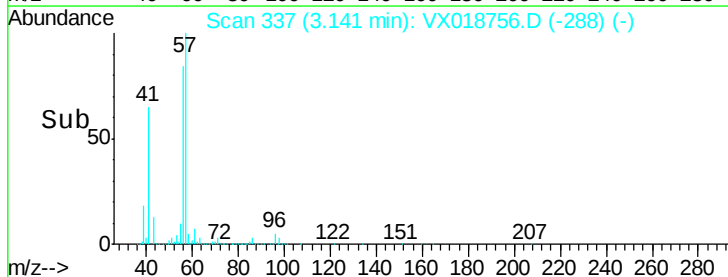
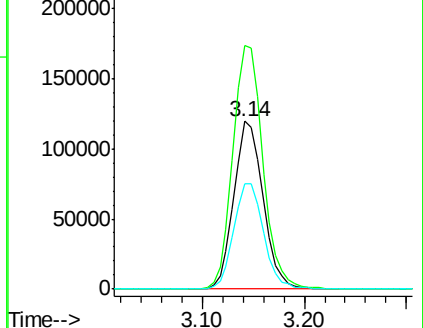
98 62.6 43.1 80.1

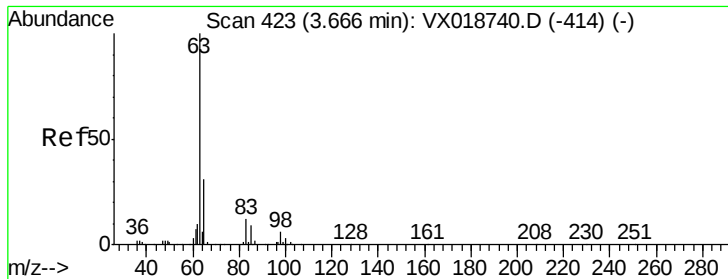


Abundance Ion 96.00 (95.70 to 96.70): VX0

Ion 61.05 (60.75 to 61.75): VX0

Ion 97.95 (97.65 to 98.65): VX0





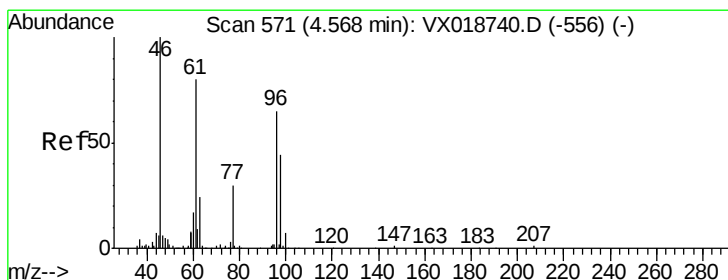
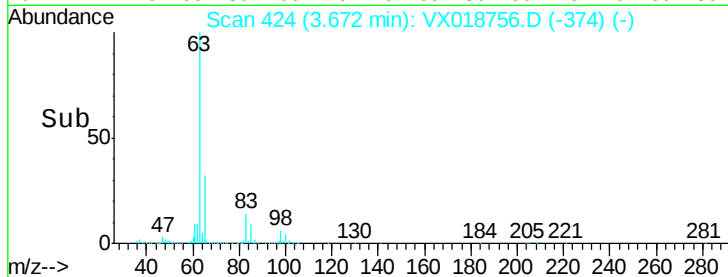
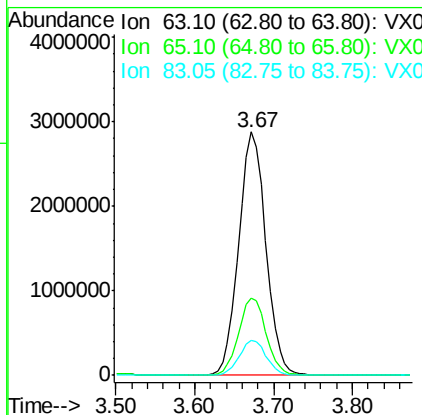
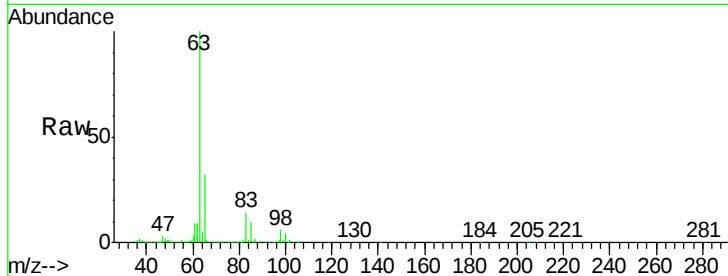
#19
 1,1-Dichloroethane
 Concen: 288.375 ug/L
 RT: 3.67 min Scan# 424
 Delta R.T. 0.01 min
 Lab File: VX018756.D
 Acq: 02 Oct 2020 18:41

Instrument :
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 ClientSampleId :
 BG3N2

Tot Ion:	63	Resp:	6923520
Ion	Ratio	Lower	Upper
63	100		
65	32.0	21.6	40.2
83	14.4	8.7	16.1

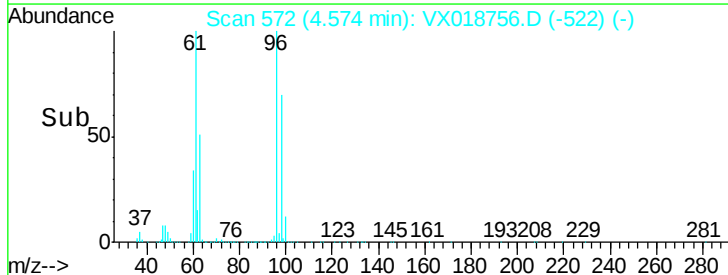
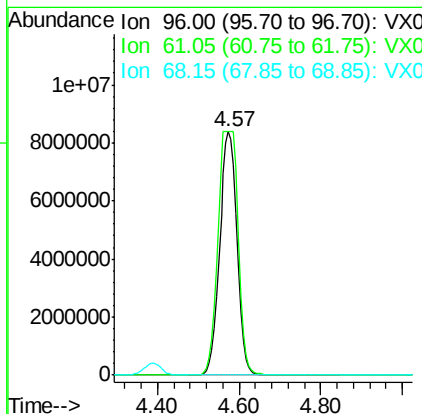
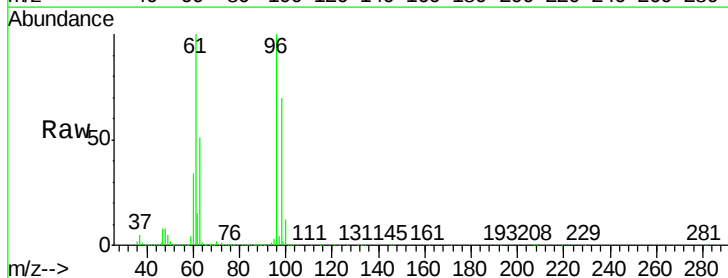
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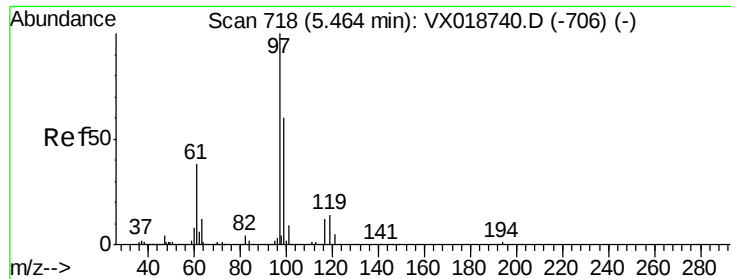
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#22
 cis-1,2-Dichloroethene
 Concen: 1788.077 ug/L
 RT: 4.57 min Scan# 572
 Delta R.T. 0.01 min
 Lab File: VX018756.D
 Acq: 02 Oct 2020 18:41

Tgt Ion:	96	Resp:	24903758
Ion	Ratio	Lower	Upper
96	100		
61	100.0	86.2	160.0
68	0.0	0.3	0.7#





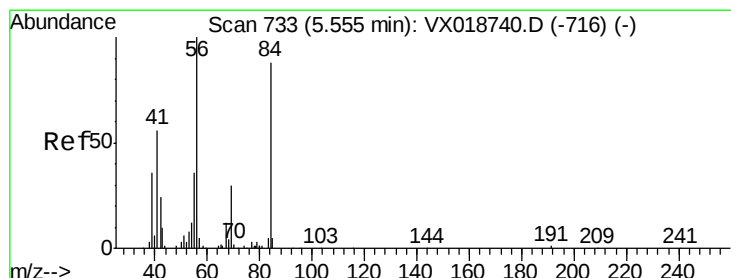
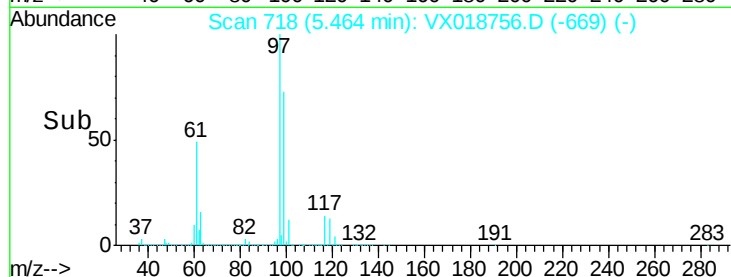
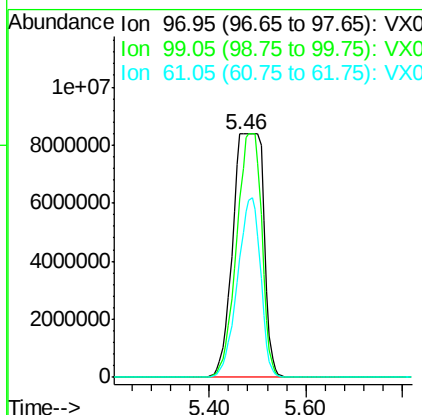
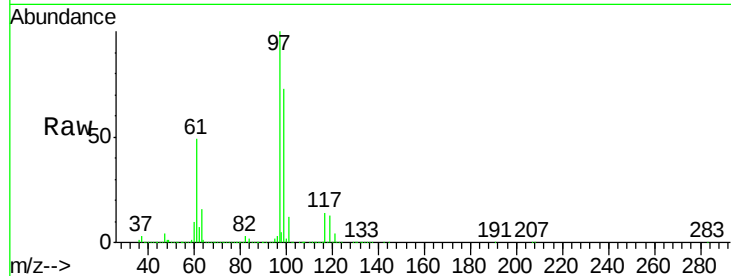
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 1,1,1-Trichloroethane
 Concen: 1285.599 ug/L m
 RT: 5.46 min Scan# 718
 Delta R.T. 0.00 min
 Lab File: VX018756.D
 Acq: 02 Oct 2020 18:41

Instrument :
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 ClientSampleId :
 BG3N2

Tot Ion: 97 Resp: 37125898
 Ion Ratio Lower Upper
 97 100
 99 0.0 51.3 76.9#
 61 0.0 33.3 49.9#

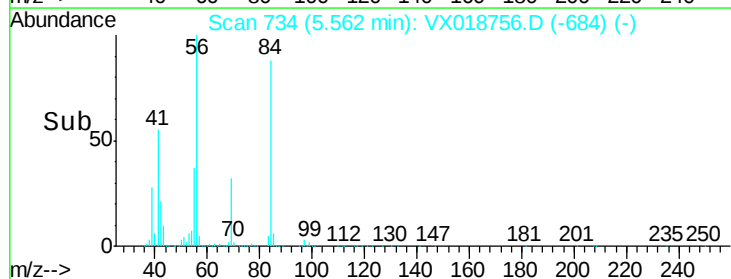
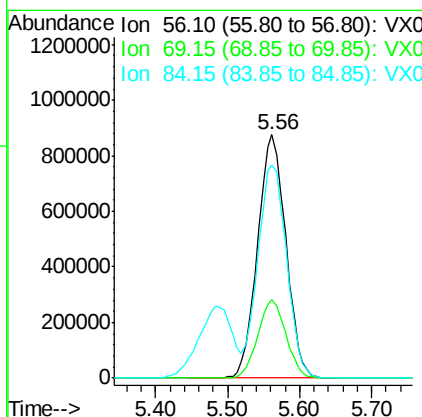
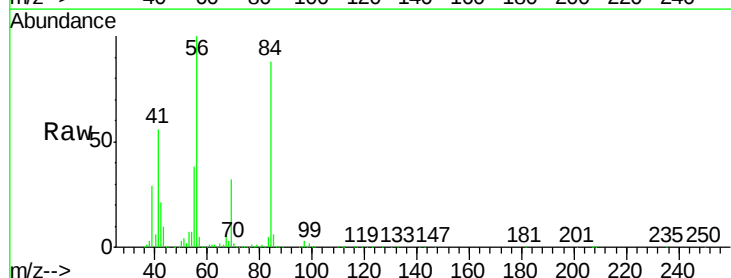
Manual Integrations
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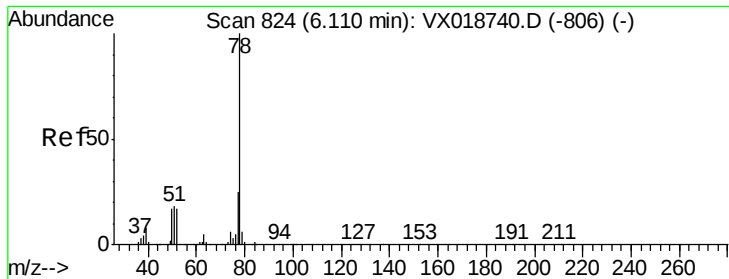
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#30
 Cyclohexane
 Concen: 119.181 ug/L
 RT: 5.56 min Scan# 734
 Delta R.T. 0.01 min
 Lab File: VX018756.D
 Acq: 02 Oct 2020 18:41

Tgt Ion: 56 Resp: 2387103
 Ion Ratio Lower Upper
 56 100
 69 32.0 26.0 39.0
 84 89.7 73.8 110.6





#33

Benzene

Concen: 2.490 ug/L

RT: 6.11 min Scan# 824

Delta R.T. 0.00 min

Lab File: VX018756.D

Acq: 02 Oct 2020 18:41

Instrument :

MSVOA_X

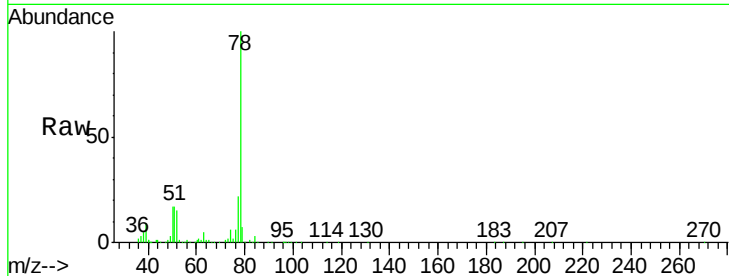
ClientSampled :

BG3N2

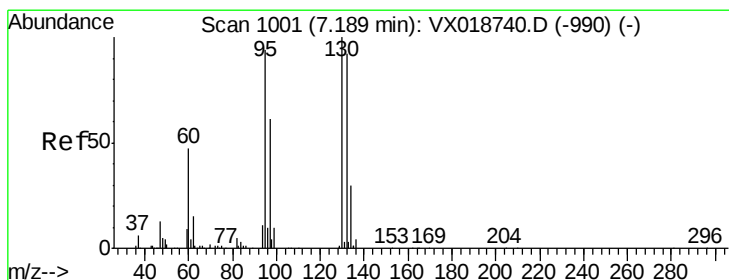
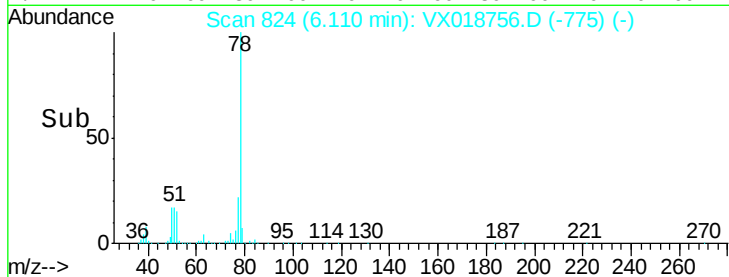
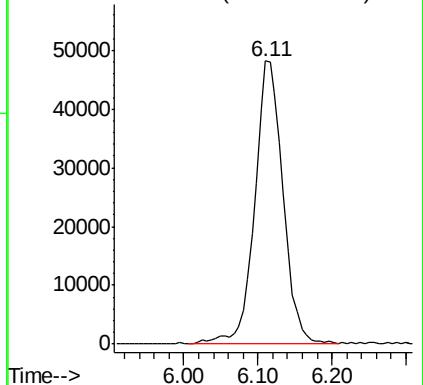
Tgt Ion: 78 Resp: 127263

Manual Integrations
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10/6/2020 1:25:29 PM



Abundance Ion 78.10 (77.80 to 78.80): VX0



#34

Trichloroethene

Concen: 1.885 ug/L

RT: 7.19 min Scan# 1001

Delta R.T. 0.00 min

Lab File: VX018756.D

Acq: 02 Oct 2020 18:41

Tgt Ion: 95 Resp: 28450

Ion	Ratio	Lower	Upper
95	100		
97	74.1	45.3	84.1
132	98.1	68.6	127.4
130	106.6	74.5	138.3

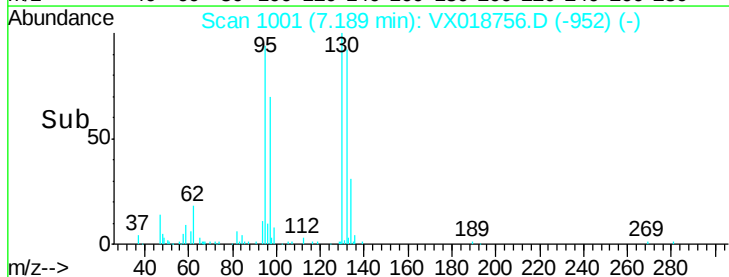
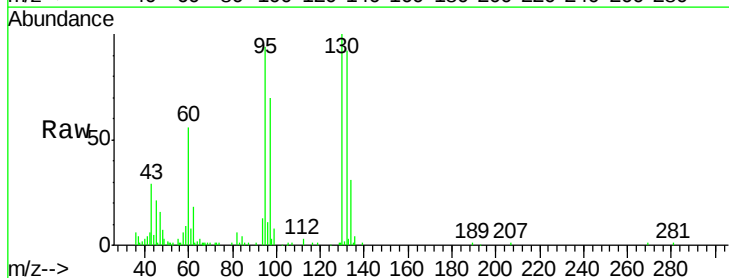
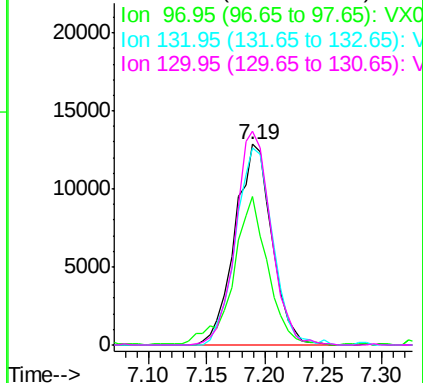
95 100

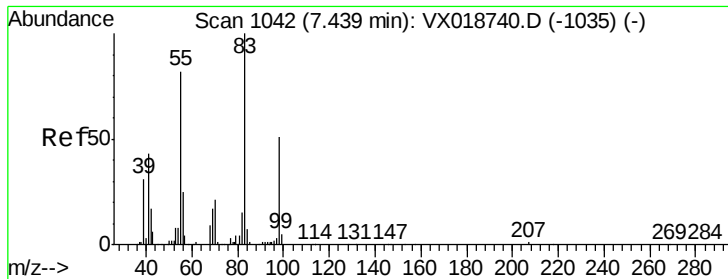
97 74.1 45.3 84.1

132 98.1 68.6 127.4

130 106.6 74.5 138.3

Abundance Ion 95.00 (94.70 to 95.70): VX0





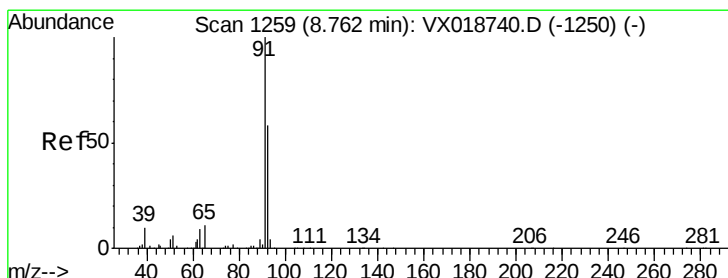
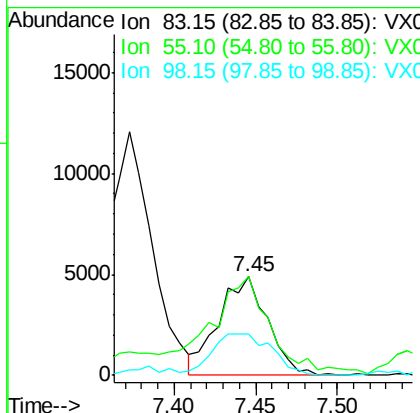
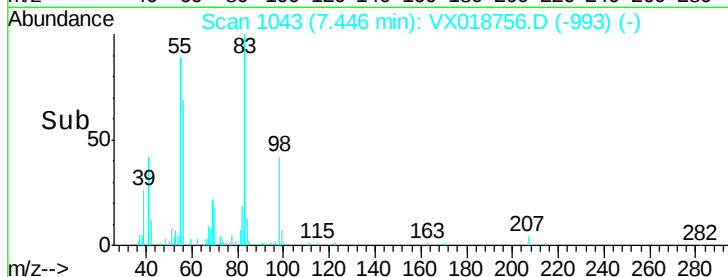
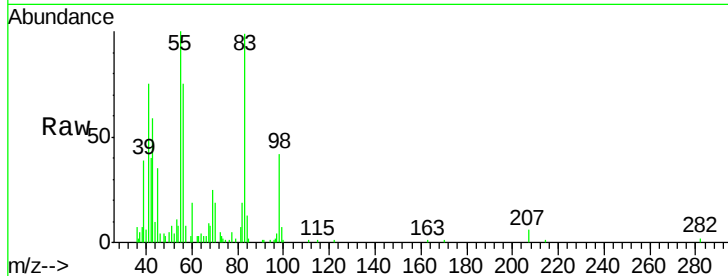
#35
Methvlcvclohexane
Concen: 0.478 ug/L
RT: 7.45 min Scan# 1043
Delta R.T. 0.01 min
Lab File: VX018756.D
Acq: 02 Oct 2020 18:41

Instrument :
MSVOA_X
ClientSampleId :
BG3N2

Tot Ion	Ratio	Lower	Upper
83	100		
55	122.1	60.3	90.5#
98	51.6	39.4	59.0

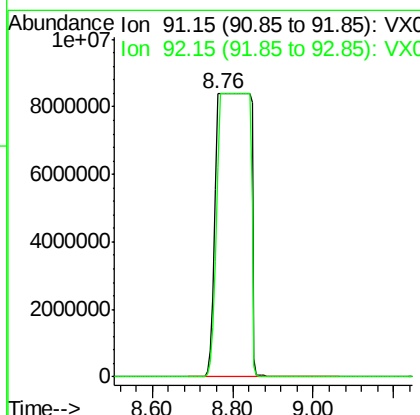
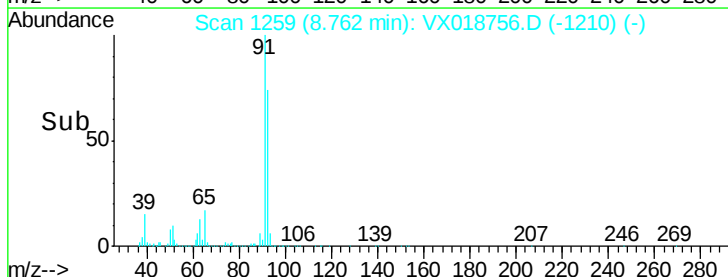
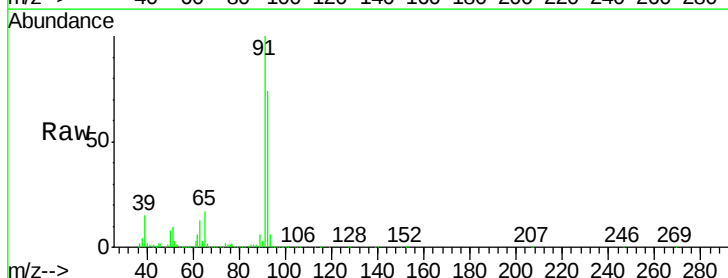
Manual Integrations
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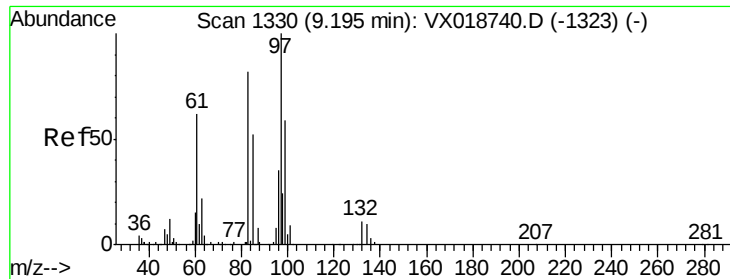
MMDadoda
10/6/2020 1:25:29 PM



#42
Toluene
Concen: 886.287 ug/L m
RT: 8.76 min Scan# 1259
Delta R.T. 0.00 min
Lab File: VX018756.D
Acq: 02 Oct 2020 18:41

Tgt Ion	Ratio	Lower	Upper
91	100		
92	74.0	40.3	74.9





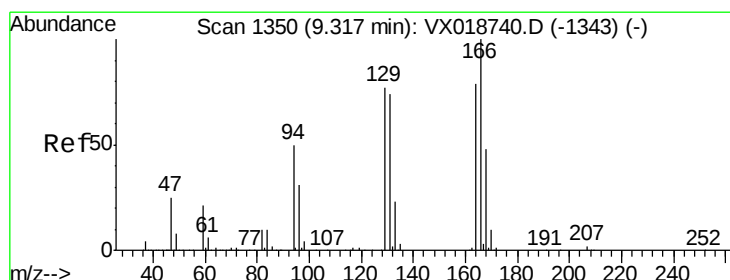
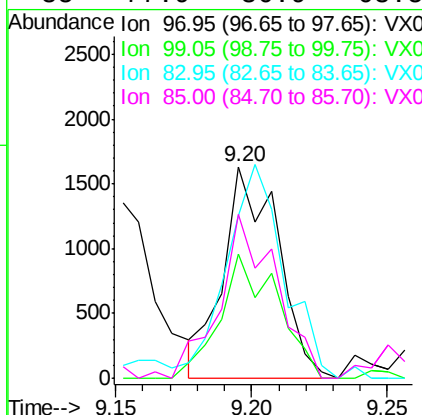
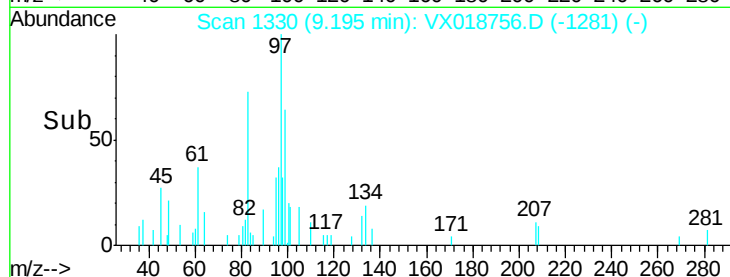
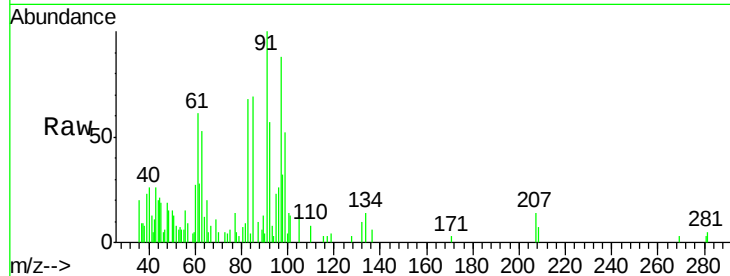
#47
 1,1,2-Trichloroethane
 Concen: 0.235 ug/L
 RT: 9.20 min Scan# 1330
 Delta R.T. 0.00 min
 Lab File: VX018756.D
 Acq: 02 Oct 2020 18:41

Instrument :
 MSVOA_X
 ClientSampled :
 BG3N2

Tot Ion:	97	Resp:	2274
Ion	Ratio	Lower	Upper
97	100		
99	59.0	41.1	76.3
83	77.0	57.5	106.7
85	77.9	36.9	68.5#

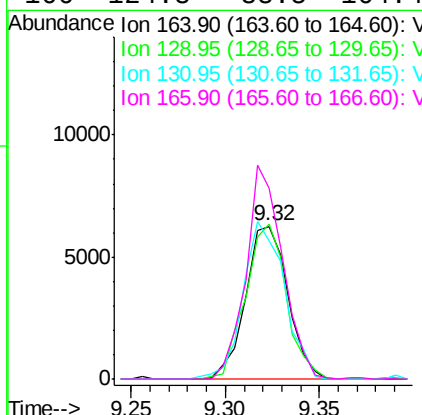
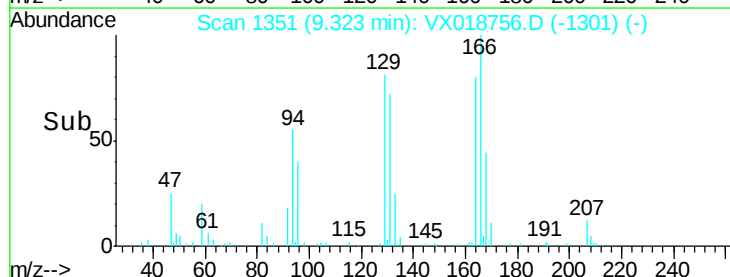
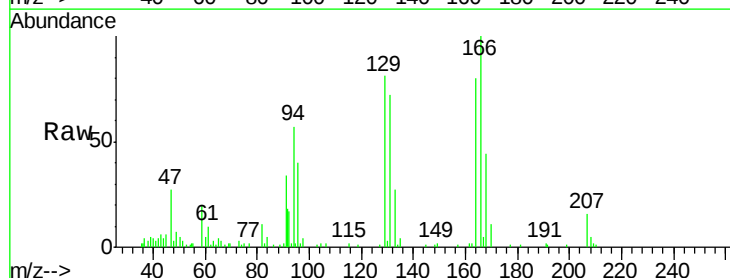
Manual Integrations
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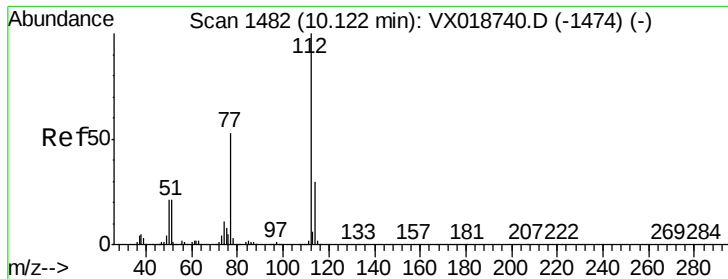
MMDadoda
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#49
 Tetrachloroethene
 Concen: 0.737 ug/L
 RT: 9.32 min Scan# 1351
 Delta R.T. 0.01 min
 Lab File: VX018756.D
 Acq: 02 Oct 2020 18:41

Tgt Ion:	164	Resp:	9729
Ion	Ratio	Lower	Upper
164	100		
129	101.6	68.7	127.5
131	90.3	65.3	121.3
166	124.8	88.5	164.4





#53

Chlorobenzene

Concen: 25.206 ug/L

RT: 10.12 min Scan# 1482

Delta R.T. 0.00 min

Lab File: VX018756.D

Acq: 02 Oct 2020 18:41

Instrument :

MSVOA_X

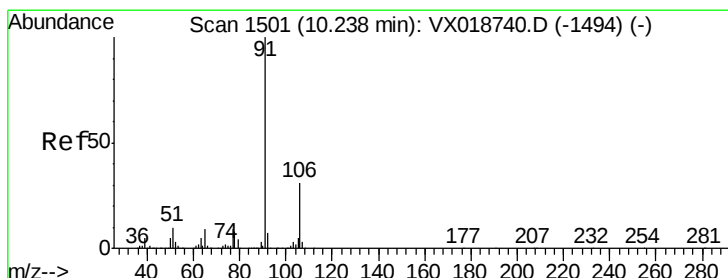
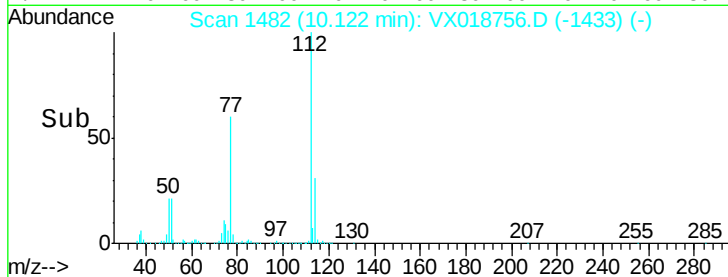
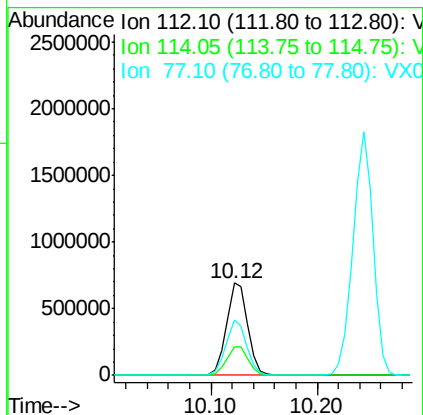
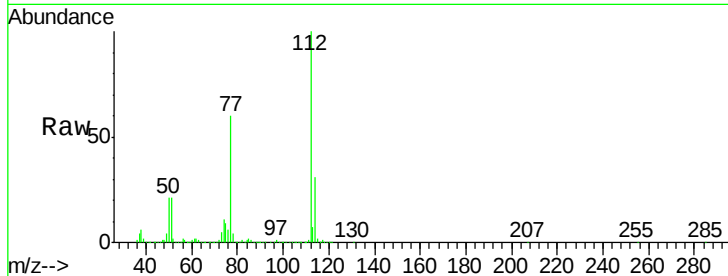
ClientSampled :

BG3N2

Tot Ion:	112	Resp:	964424
Ion Ratio	Lower	Upper	
112	100		
114	31.3	21.3	39.5
77	59.6	42.4	63.6

Manual Integrations
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#54

Ethylbenzene

Concen: 270.063 ug/L

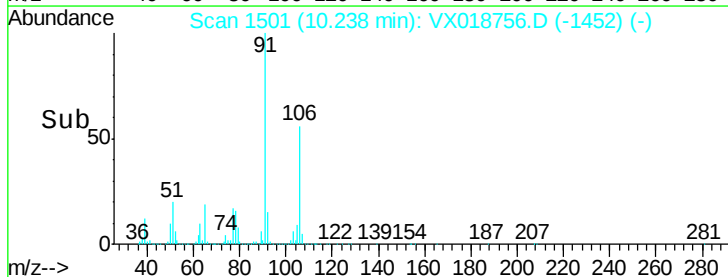
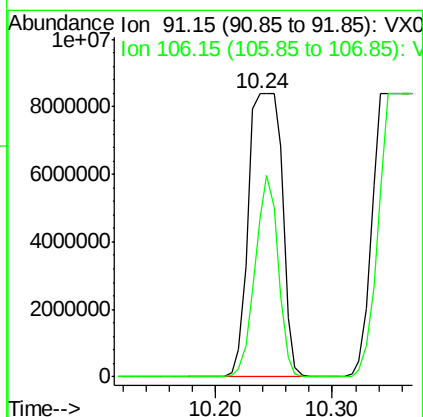
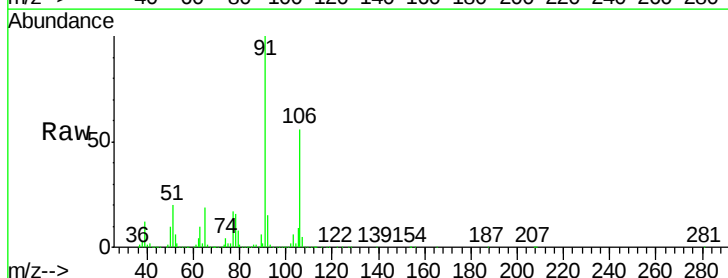
RT: 10.24 min Scan# 1501

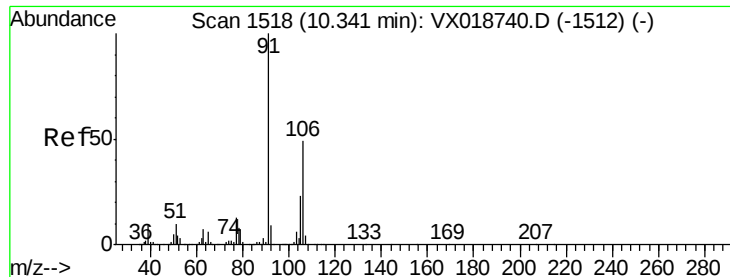
Delta R.T. 0.00 min

Lab File: VX018756.D

Acq: 02 Oct 2020 18:41

Tgt Ion:	91	Resp:	16934278
Ion Ratio	Lower	Upper	
91	100		
106	56.1	21.5	39.9#





#55

m,p-xylene

Concen: 870.281 ug/L m

RT: 10.35 min Scan# 1519

Delta R.T. 0.01 min

Lab File: VX018756.D

Acq: 02 Oct 2020 18:41

Instrument :

MSVOA_X

ClientSampled :

BG3N2

Tot Ion:106 Resp:21286210

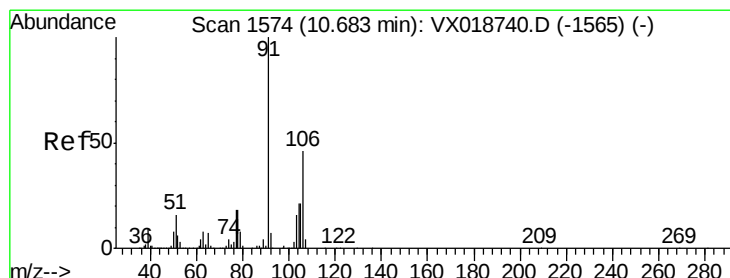
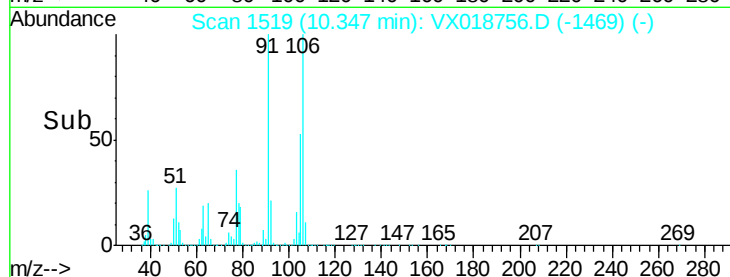
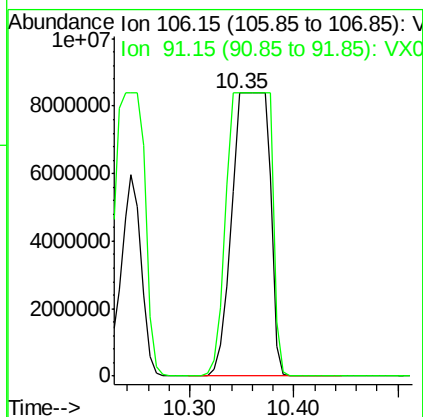
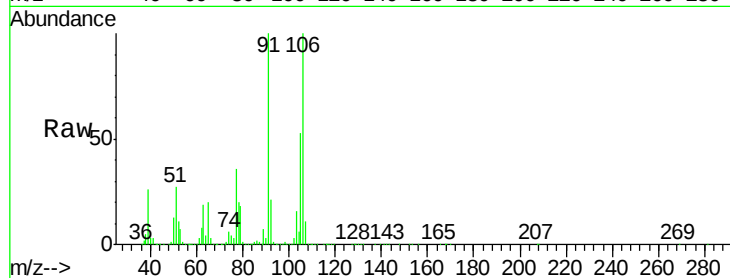
Ion Ratio Lower Upper

106 100

91 100.0 143.4 266.2#

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#56

o-xylene

Concen: 663.200 ug/L

RT: 10.69 min Scan# 1575

Delta R.T. 0.01 min

Lab File: VX018756.D

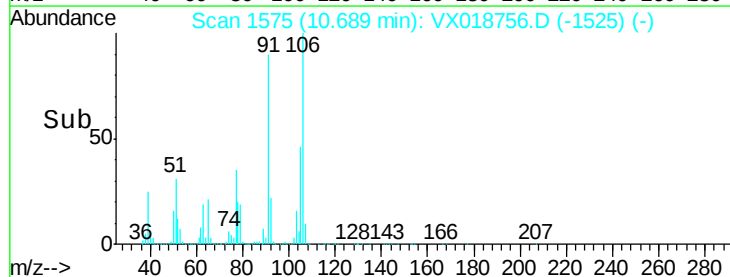
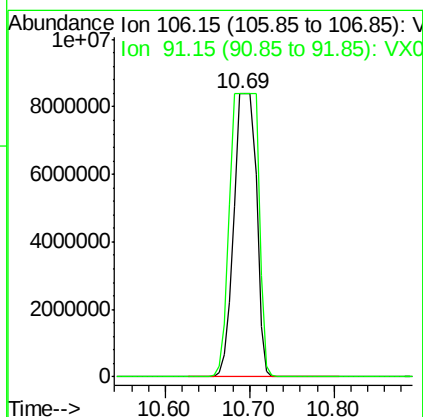
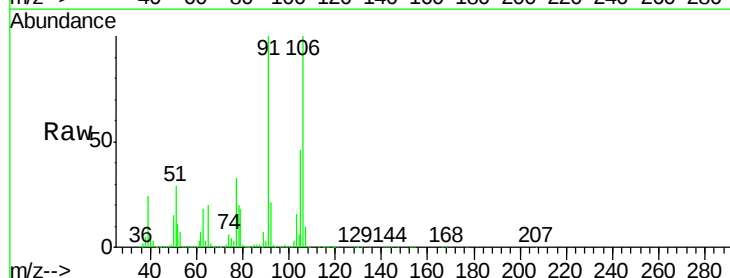
Acq: 02 Oct 2020 18:41

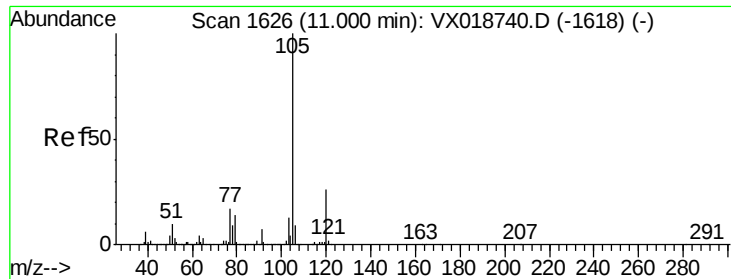
Tgt Ion:106 Resp:14990443

Ion Ratio Lower Upper

106 100

91 100.0 153.4 284.8#





#58

Isopropylbenzene

Concen: 111.395 ug/L

RT: 11.01 min Scan# 1627

Delta R.T. 0.01 min

Lab File: VX018756.D

Acq: 02 Oct 2020 18:41

Instrument :

MSVOA_X

ClientSampled :

BG3N2

Tot Ion:105 Resp: 7048979

Ion Ratio Lower Upper

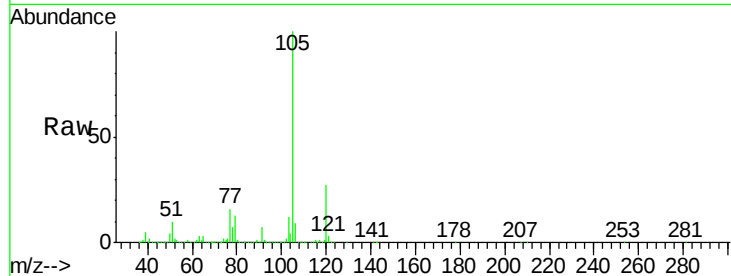
105 100

120 26.5 20.2 30.2

77 16.3 13.3 19.9

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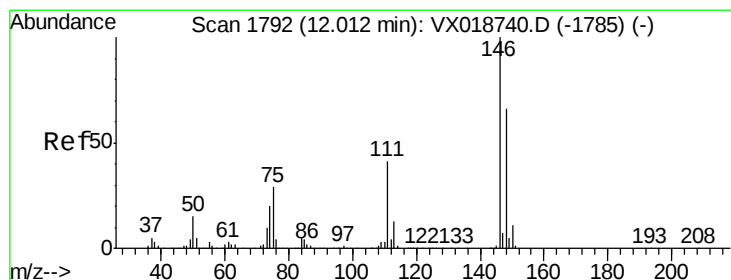
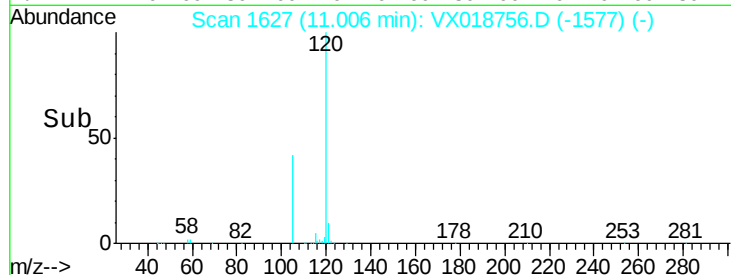
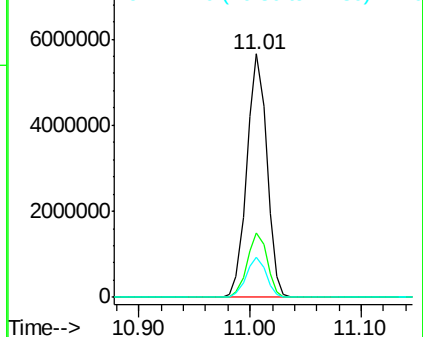
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Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#63

1,3-Dichlorobenzene

Concen: 6.516 ug/L

RT: 12.02 min Scan# 1793

Delta R.T. 0.01 min

Lab File: VX018756.D

Acq: 02 Oct 2020 18:41

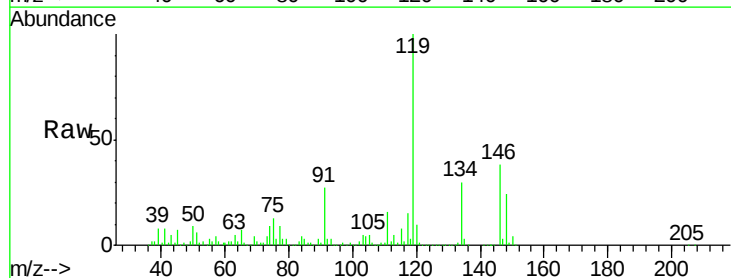
Tgt Ion:146 Resp: 206407

Ion Ratio Lower Upper

146 100

111 41.6 28.4 52.8

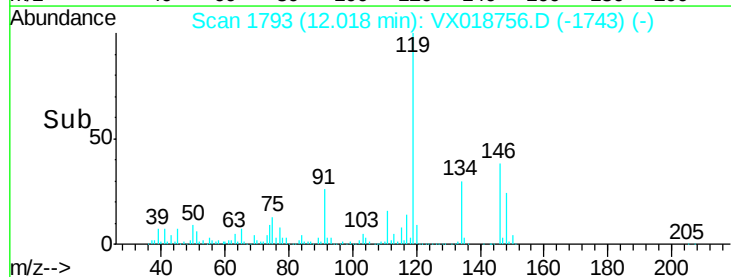
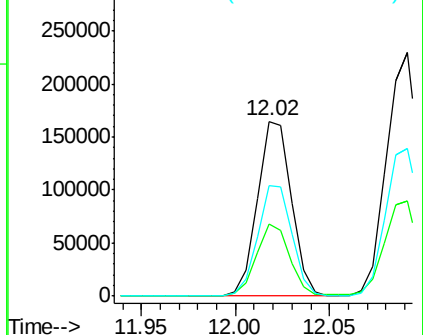
148 62.8 45.9 85.3

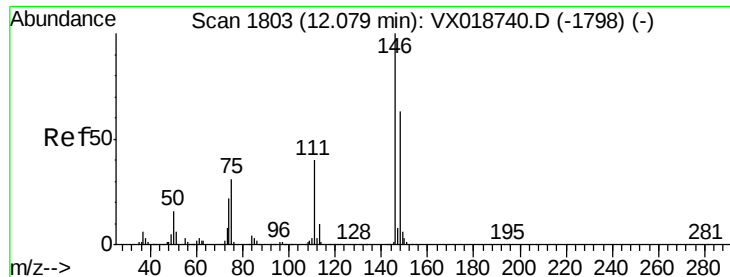


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





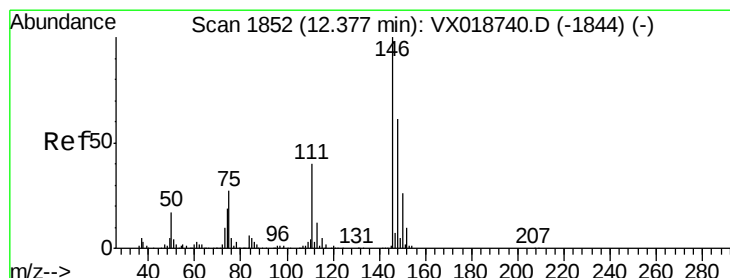
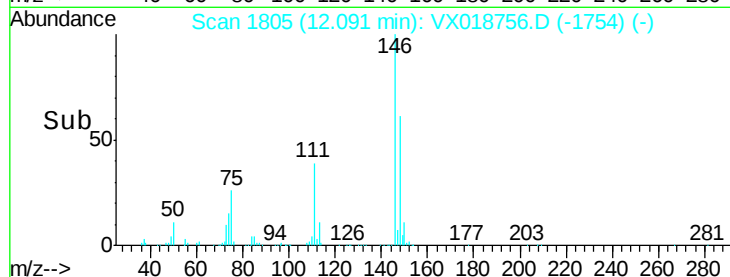
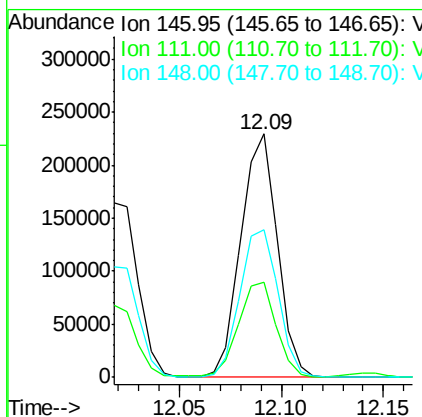
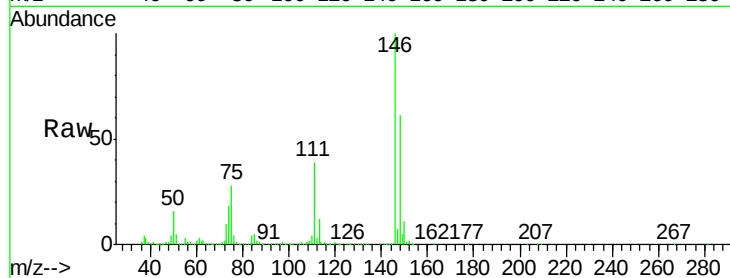
#64
 1,4-Dichlorobenzene
 Concen: 9.035 ug/L
 RT: 12.09 min Scan# 1805
 Delta R.T. 0.01 min
 Lab File: VX018756.D
 Acq: 02 Oct 2020 18:41

Instrument :
 MSVOA_X
 ClientSampled :
 BG3N2

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.1	28.6	53.2
148	60.9	44.2	82.0

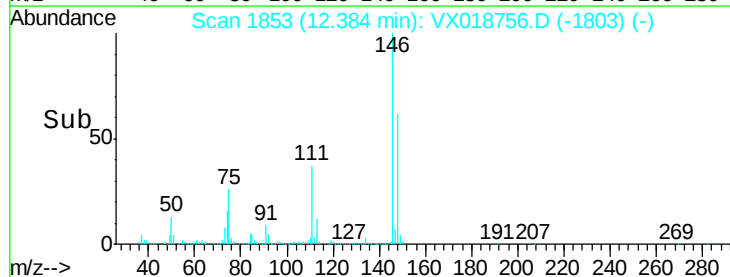
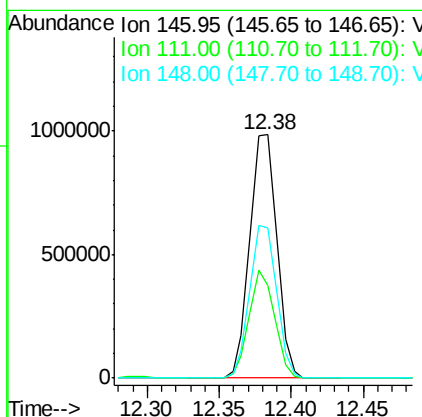
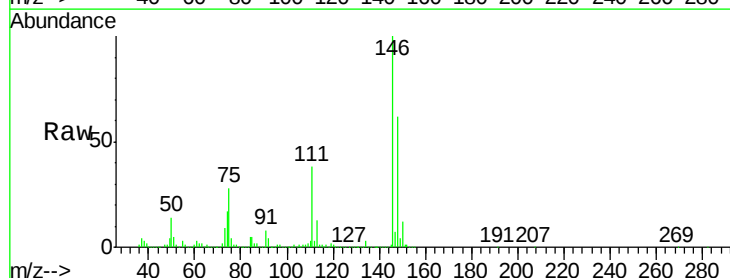
Manual Integrations
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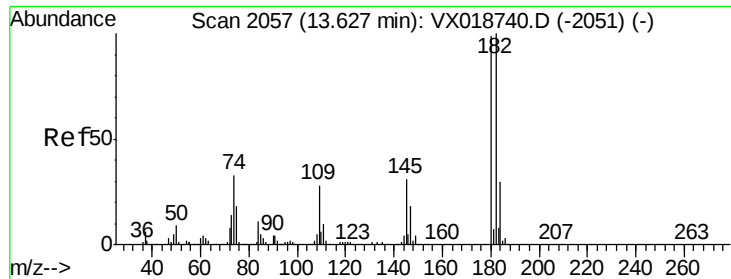
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#66
 1,2-Dichlorobenzene
 Concen: 43.304 ug/L
 RT: 12.38 min Scan# 1853
 Delta R.T. 0.01 min
 Lab File: VX018756.D
 Acq: 02 Oct 2020 18:41

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.8	31.7	47.5
148	61.6	49.0	73.6





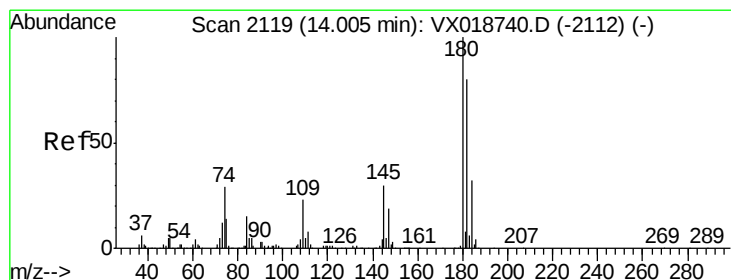
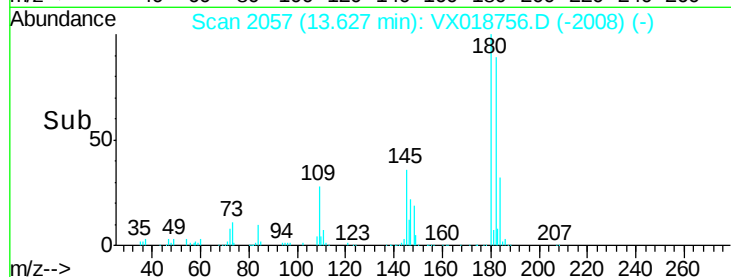
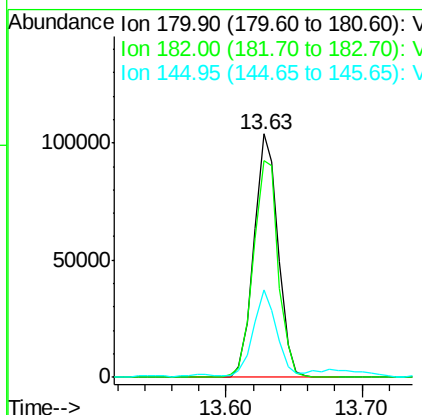
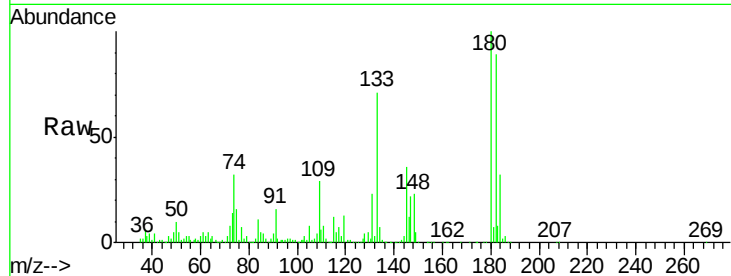
#69
 1,2,4-trichlorobenzene
 Concen: 6.423 ug/L
 RT: 13.63 min Scan# 2057
 Delta R.T. 0.00 min
 Lab File: VX018756.D
 Acq: 02 Oct 2020 18:41

Instrument :
 MSVOA_X
 ClientSampled :
 BG3N2

Tot Ion	Ratio	Resp	Lower	Upper
180	100	130012		
182	92.0		80.2	120.4
145	35.1		25.2	37.8

Manual Integrations
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#71
 1,2,3-Trichlorobenzene
 Concen: 3.037 ug/L
 RT: 14.00 min Scan# 2118
 Delta R.T. -0.01 min
 Lab File: VX018756.D
 Acq: 02 Oct 2020 18:41

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	55310		
182	99.2		73.6	110.4
145	48.9		26.6	40.0#

