

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100520\
 Data File : VX018768.D
 Acq On : 05 Oct 2020 16:12
 Operator : JC/SP
 Sample : L4239-03DL2 400X
 Misc : 25.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BG3N2DL2

Quant Time: Oct 06 01:45:36 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\SOMXTR100220WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Oct 06 01:36:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.83	114	148057	5.00	ug/L	0.00
28) Chlorobenzene-d5	10.10	117	139838	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	12.06	152	70213	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	46838	5.41	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	108.20%
7) Chloroethane-d5	1.70	69	40714	6.02	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	120.40%
11) 1,1-Dichloroethene-d2	2.34	63	79610	4.08	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	81.60%
20) 2-Butanone-d5	4.57	46	157454	69.41	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	138.82%#
24) Chloroform-d	5.14	84	114077	5.45	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	109.00%
26) 1,2-Dichloroethane-d4	6.03	65	64731	5.07	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.40%
32) Benzene-d6	6.05	84	213238	6.14	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	122.80%
36) 1,2-Dichloropropane-d6	7.37	67	64102	6.38	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	127.60%
41) Toluene-d8	8.70	98	193741	5.66	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	113.20%
45) trans-1,3-Dichloropropene-	8.99	79	28693	5.31	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	106.20%
48) 2-Hexanone-d5	9.43	63	129451	71.46	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	142.92%#
59) 1,1,2,2-Tetrachloroethane-	11.23	84	51217	6.27	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	125.40%#
65) 1,2-Dichlorobenzene-d4	12.36	152	79995	6.18	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	123.60%#

Target Compounds

					Ovalue
5) Vinyl chloride	1.39	62	1320	0.165 ug/L #	23
8) Chloroethane	1.73	64	494	0.102 ug/L #	44
12) 1,1-Dichloroethene	2.35	96	1540	0.209 ug/L #	1
15) Methyl Acetate	2.77	43	395	0.130 ug/L #	71
16) Methylene chloride	2.83	84	2711	0.303 ug/L	97
19) 1,1-Dichloroethane	3.67	63	11220	0.799 ug/L	97
22) cis-1,2-Dichloroethene	4.56	96	43548	5.347 ug/L	91
29) 1,1,1-Trichloroethane	5.46	97	71037	4.294 ug/L	98
30) Cyclohexane	5.54	56	4575	0.399 ug/L	99
35) Methylcyclohexane	7.37	83	16869	1.377 ug/L #	20
37) 1,2-Dichloropropane	7.37	63	7998	1.090 ug/L #	85
39) cis-1,3-Dichloropropene	8.37	75	2226	0.190 ug/L	92
42) Toluene	8.76	91	488781	15.254 ug/L	95
43) 1,3,5-Trimethylbenzene	11.49	105	44262	1.459 ug/L	95
44) 1,2,4-Trimethylbenzene	11.79	105	166538	5.410 ug/L	97
50) 2-Hexanone	9.43	43	16179	5.241 ug/L #	69
53) Chlorobenzene	10.13	112	1498	0.068 ug/L	86

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Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Oct 06 01:36:50 2020
Response via : Initial Calibration

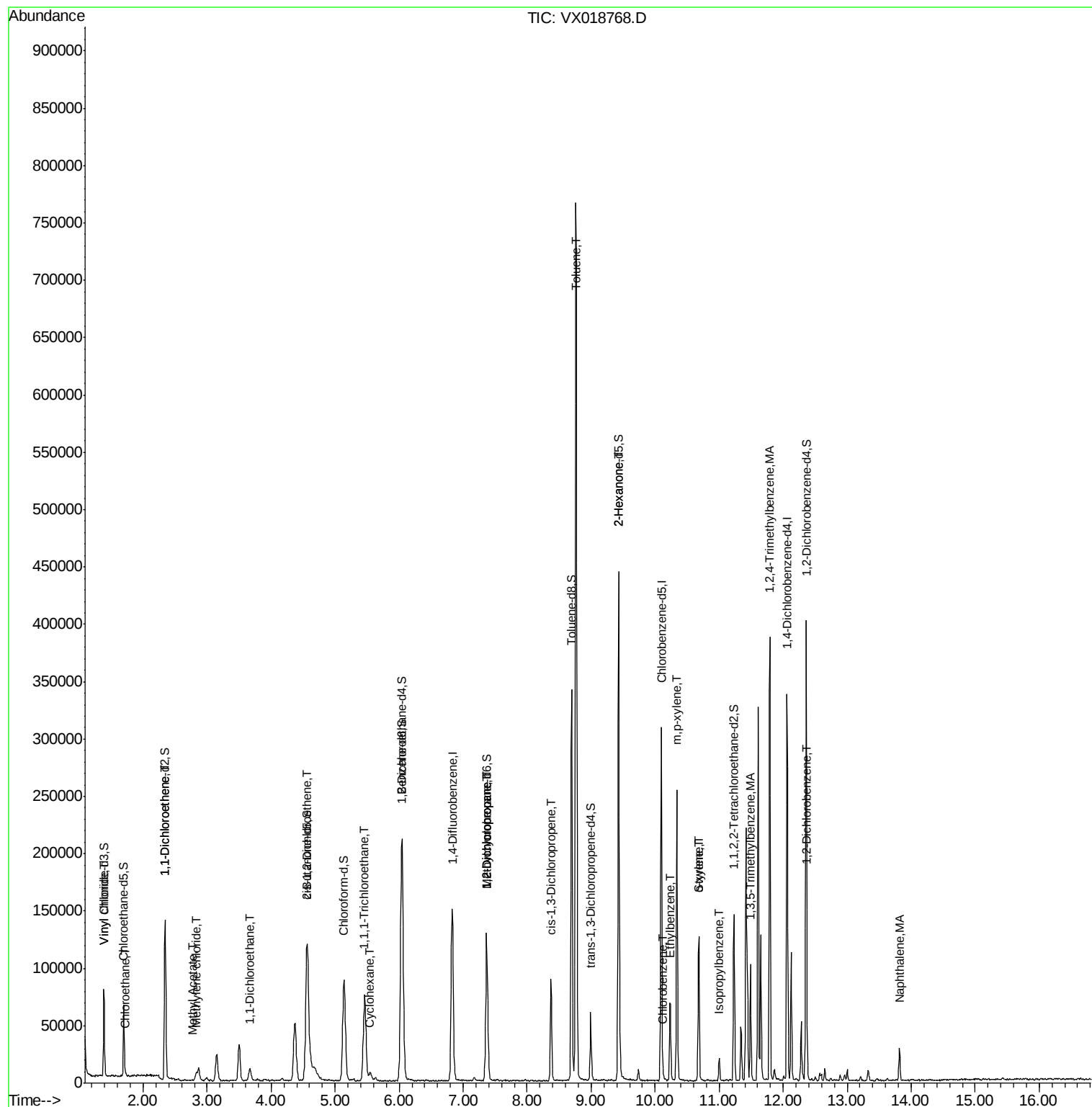
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) Ethylbenzene	10.24	91	39316	1.095	ug/L	97
55) m,p-xylene	10.34	106	57929	4.134	ug/L	97
56) o-xylene	10.68	106	28309	2.186	ug/L	90
57) Styrene	10.68	104	1943	0.088	ug/L #	1
58) Isopropylbenzene	11.00	105	9164	0.253	ug/L	95
66) 1,2-Dichlorobenzene	12.38	146	2452	0.154	ug/L #	86
70) Naphthalene	13.82	128	16015	0.898	ug/L	98

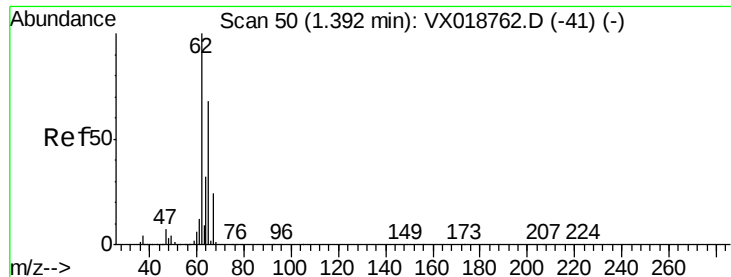
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 0.165 ug/L

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX018768.D

Acq: 05 Oct 2020 16:12

Instrument :

MSVOA_X

ClientSampled :

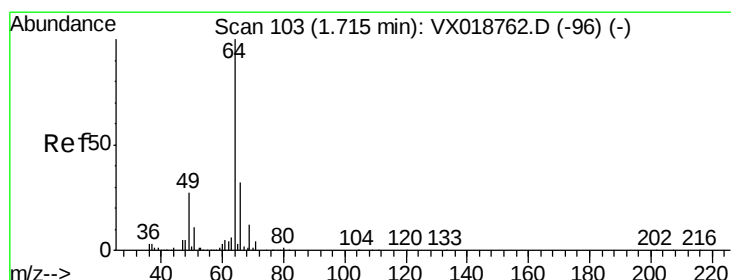
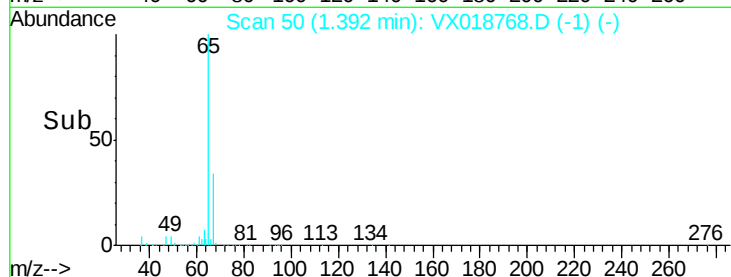
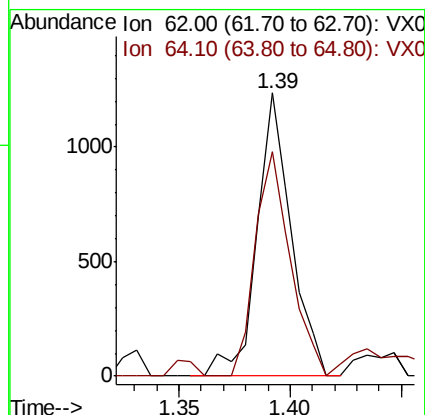
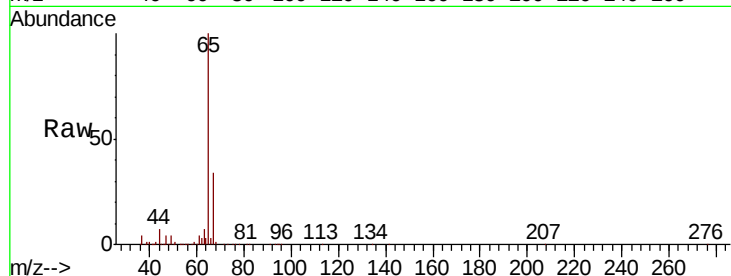
BG3N2DL2

Tot Ion: 62 Resp: 1320

Ion Ratio Lower Upper

62 100

64 79.1 24.3 45.1#



#8

Chloroethane

Concen: 0.102 ug/L

RT: 1.73 min Scan# 106

Delta R.T. 0.02 min

Lab File: VX018768.D

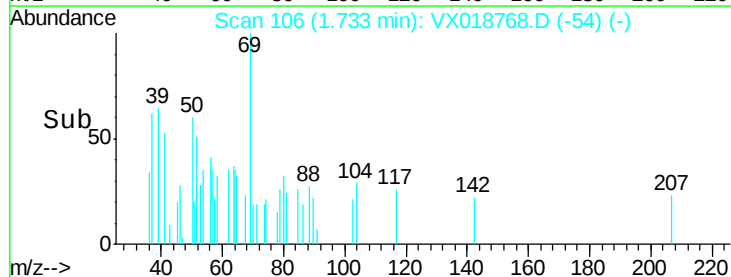
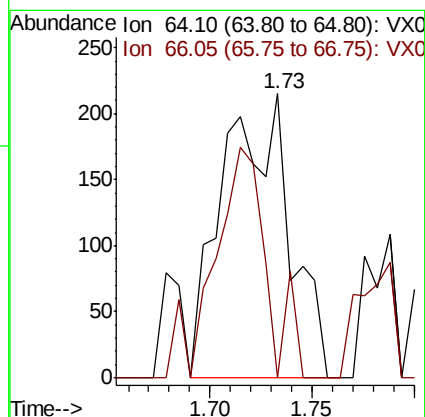
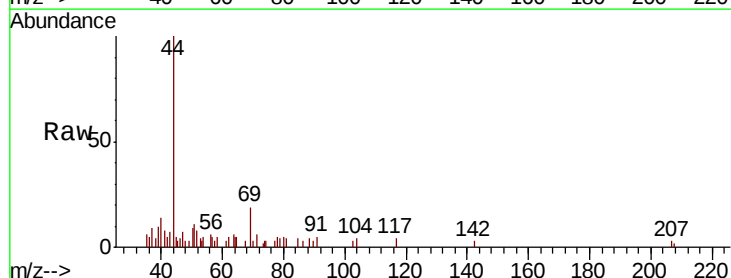
Acq: 05 Oct 2020 16:12

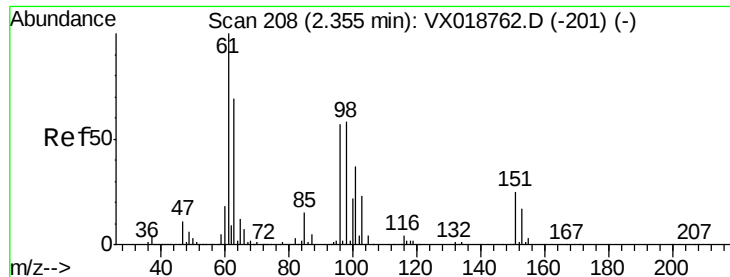
Tgt Ion: 64 Resp: 494

Ion Ratio Lower Upper

64 100

66 0.0 21.5 39.9#





#12

1,1-Dichloroethene

Concen: 0.209 ug/L

RT: 2.35 min Scan# 207

Delta R.T. -0.01 min

Lab File: VX018768.D

Acq: 05 Oct 2020 16:12

Instrument :

MSVOA_X

ClientSampleId :

BG3N2DL2

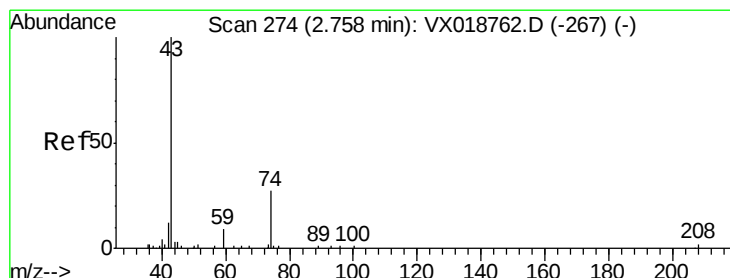
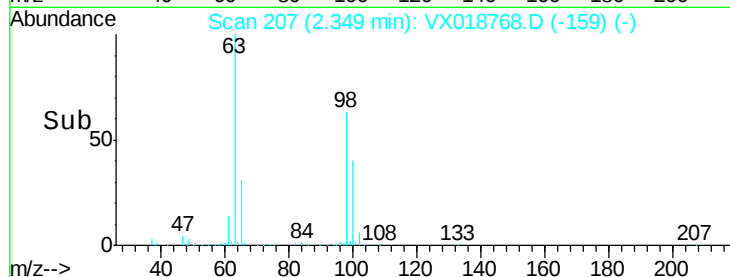
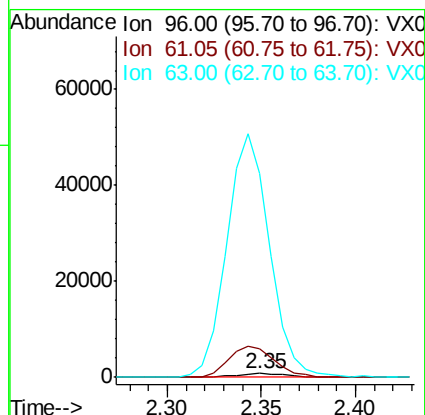
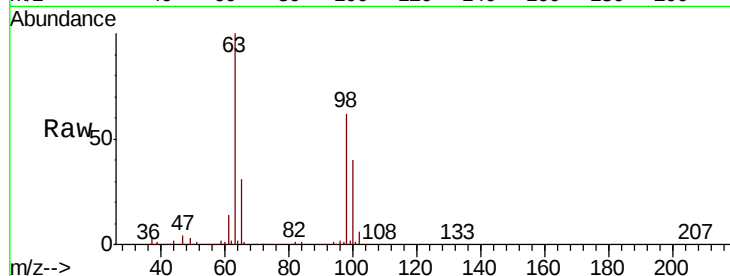
Tot Ion: 96 Resp: 1540

Ion Ratio Lower Upper

96 100

61 668.6 133.2 247.4#

63 4844.8 115.1 213.7#



#15

Methyl Acetate

Concen: 0.130 ug/L

RT: 2.77 min Scan# 276

Delta R.T. 0.01 min

Lab File: VX018768.D

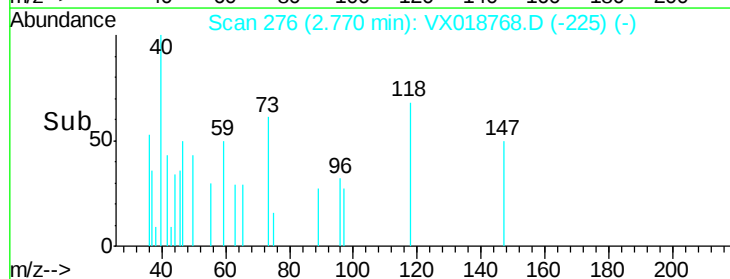
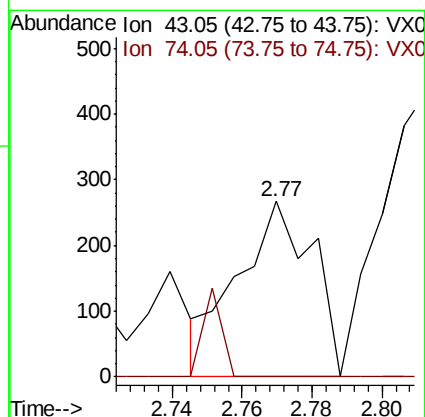
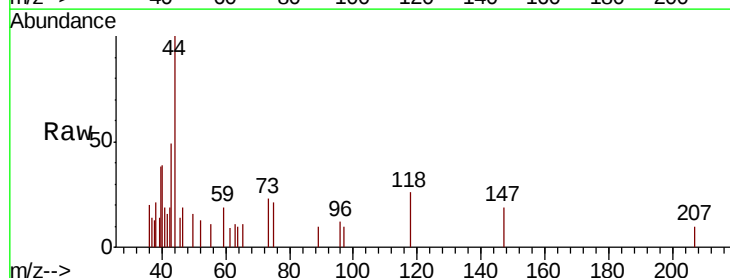
Acq: 05 Oct 2020 16:12

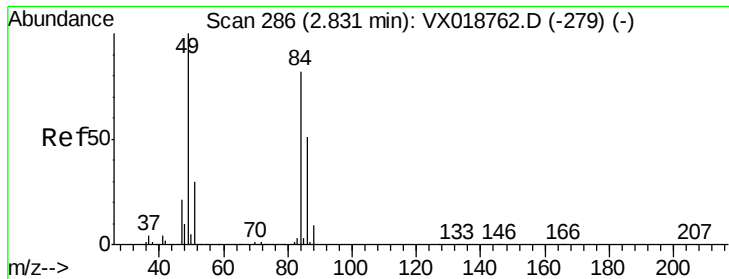
Tgt Ion: 43 Resp: 395

Ion Ratio Lower Upper

43 100

74 12.4 21.9 32.9#

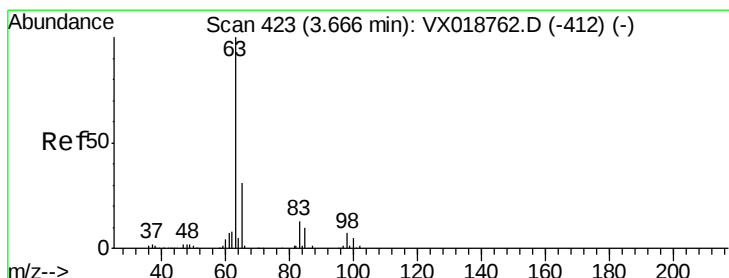
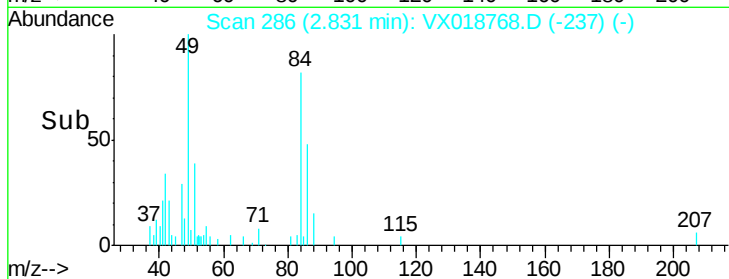
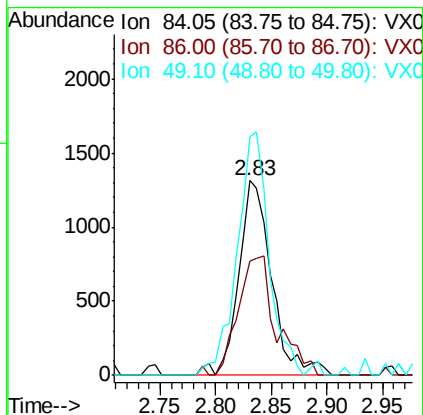
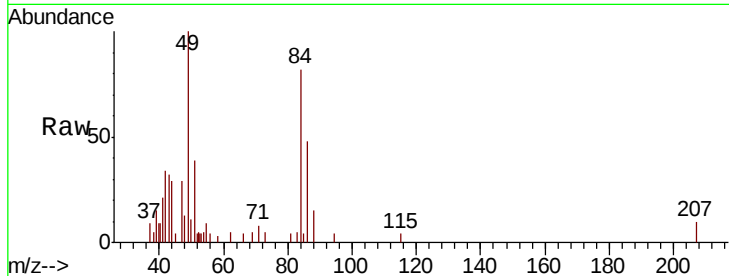




#16
Methvlene chloride
Concen: 0.303 ug/L
RT: 2.83 min Scan# 286
Delta R.T. -0.00 min
Lab File: VX018768.D
Acq: 05 Oct 2020 16:12

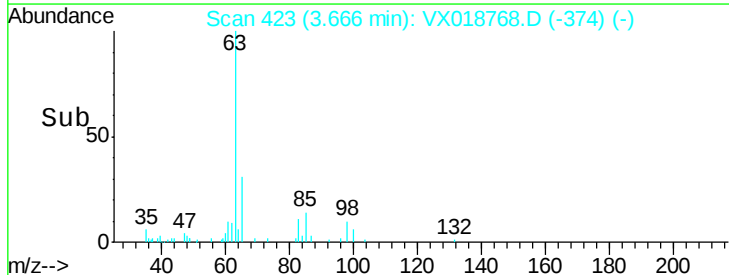
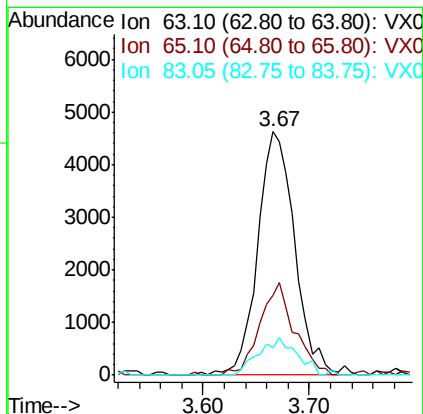
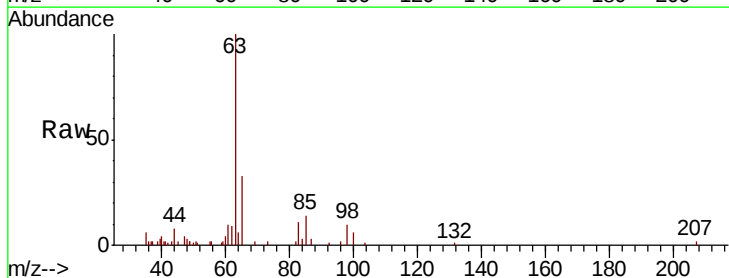
Instrument :
MSVOA_X
ClientSampleId :
BG3N2DL2

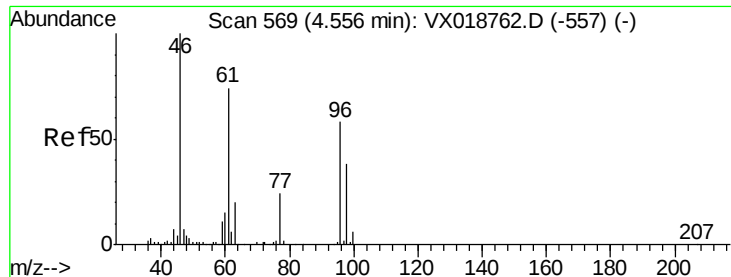
Tot Ion: 84 Resp: 2711
Ion Ratio Lower Upper
84 100
86 58.6 45.6 84.8
49 122.1 85.8 159.3



#19
1,1-Dichloroethane
Concen: 0.799 ug/L
RT: 3.67 min Scan# 423
Delta R.T. -0.00 min
Lab File: VX018768.D
Acq: 05 Oct 2020 16:12

Tgt Ion: 63 Resp: 11220
Ion Ratio Lower Upper
63 100
65 32.7 21.6 40.2
83 11.0 8.7 16.1



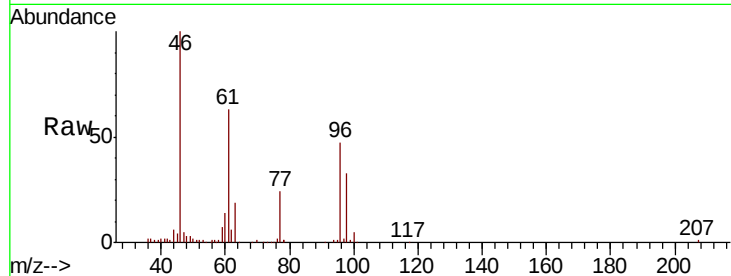


#22

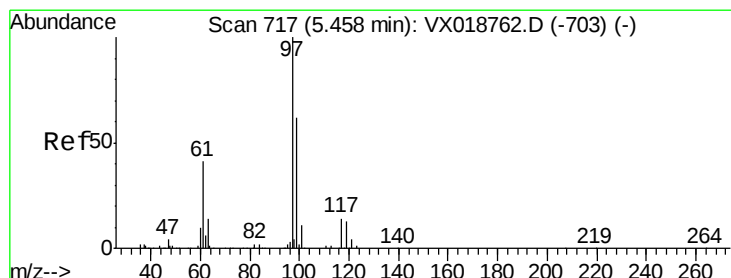
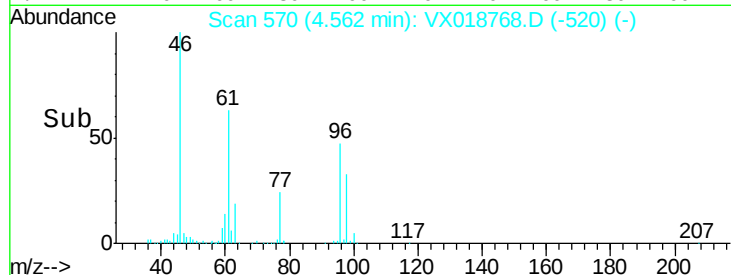
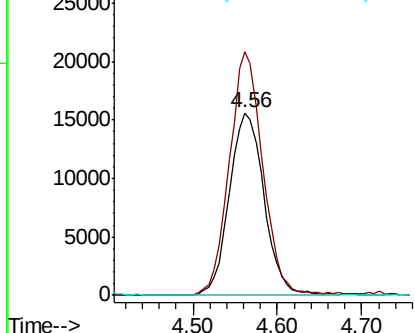
cis-1,2-Dichloroethene
 Concen: 5.347 ug/L
 RT: 4.56 min Scan# 570
 Delta R.T. 0.01 min
 Lab File: VX018768.D
 Acq: 05 Oct 2020 16:12

Instrument :
 MSVOA_X
 ClientSampled :
 BG3N2DL2

Tot Ion: 96 Resp: 43548
 Ion Ratio Lower Upper
 96 100
 61 133.6 86.2 160.0
 68 0.4 0.3 0.7



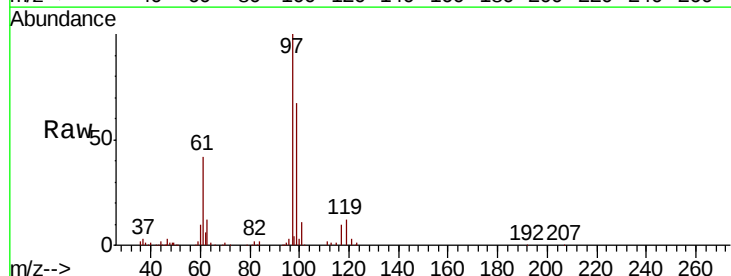
Abundance Ion 96.00 (95.70 to 96.70): VX0
 Ion 61.05 (60.75 to 61.75): VX0
 Ion 68.15 (67.85 to 68.85): VX0



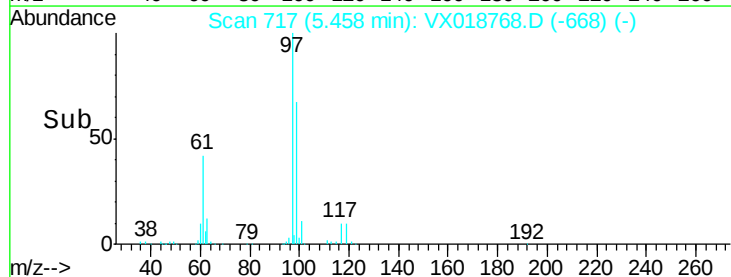
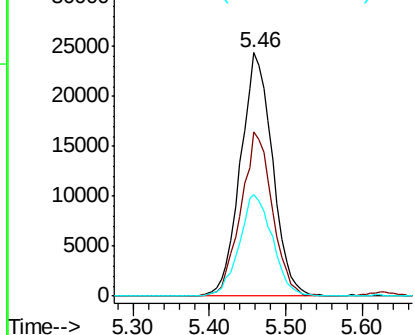
#29

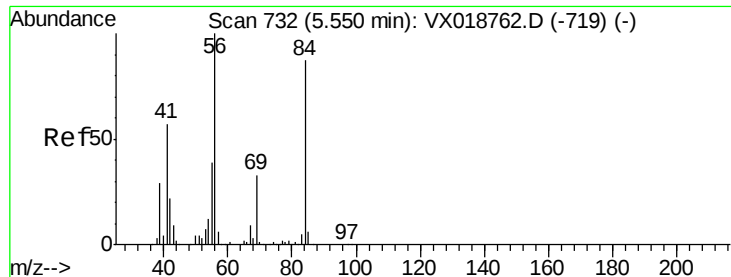
1,1,1-Trichloroethane
 Concen: 4.294 ug/L
 RT: 5.46 min Scan# 717
 Delta R.T. -0.00 min
 Lab File: VX018768.D
 Acq: 05 Oct 2020 16:12

Tgt Ion: 97 Resp: 71037
 Ion Ratio Lower Upper
 97 100
 99 66.1 51.3 76.9
 61 43.1 33.3 49.9



Abundance Ion 96.95 (96.65 to 97.65): VX0
 Ion 99.05 (98.75 to 99.75): VX0
 Ion 61.05 (60.75 to 61.75): VX0

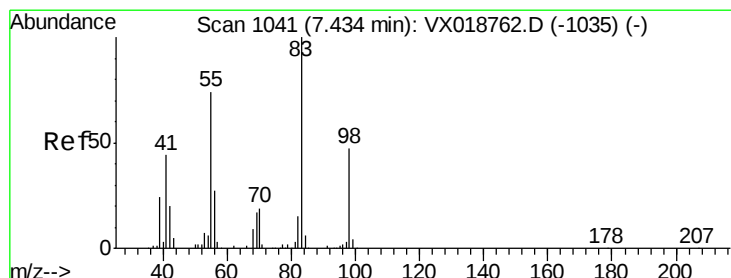
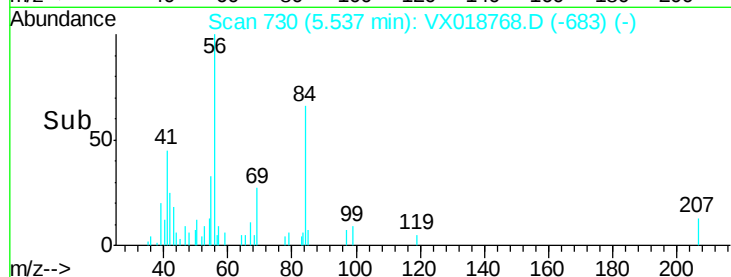
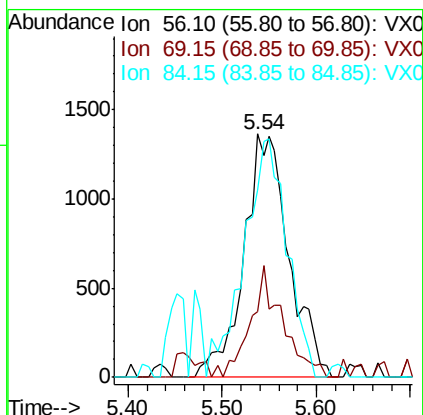
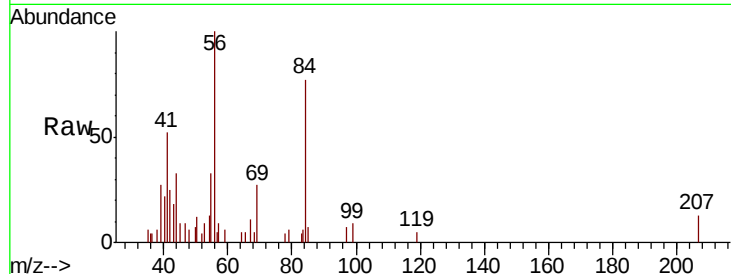




#30
Cyclohexane
Concen: 0.399 ug/L
RT: 5.54 min Scan# 730
Delta R.T. -0.01 min
Lab File: VX018768.D
Acq: 05 Oct 2020 16:12

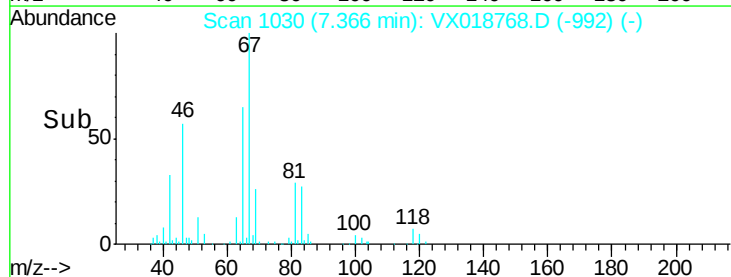
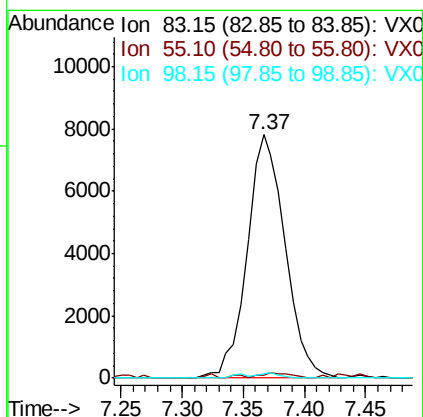
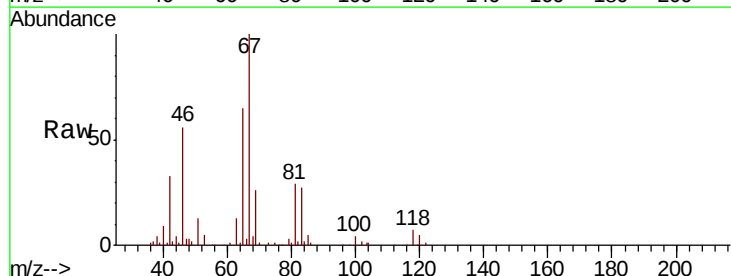
Instrument :
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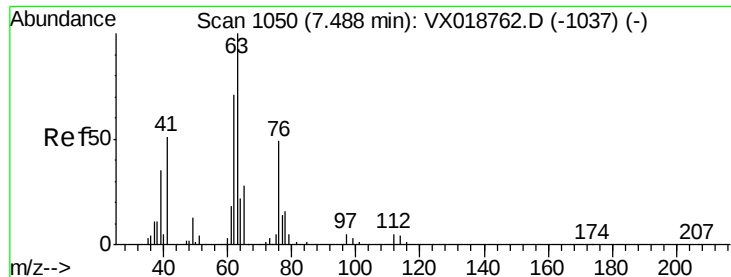
Tot Ion: 56 Resp: 4575
Ion Ratio Lower Upper
56 100
69 32.9 26.0 39.0
84 93.4 73.8 110.6



#35
Methylcyclohexane
Concen: 1.377 ug/L
RT: 7.37 min Scan# 1030
Delta R.T. -0.07 min
Lab File: VX018768.D
Acq: 05 Oct 2020 16:12

Tgt Ion: 83 Resp: 16869
Ion Ratio Lower Upper
83 100
55 1.6 60.3 90.5#
98 1.2 39.4 59.0#





#37

1,2-Dichloropropane

Concen: 1.090 ug/L

RT: 7.37 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VX018768.D

Acq: 05 Oct 2020 16:12

Instrument :

MSVOA_X

ClientSampleId :

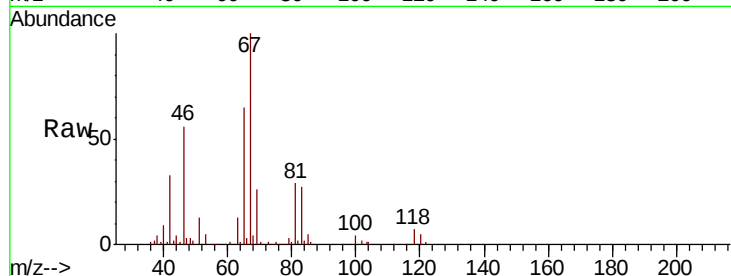
BG3N2DL2

Tot Ion: 63 Resp: 7998

Ion Ratio Lower Upper

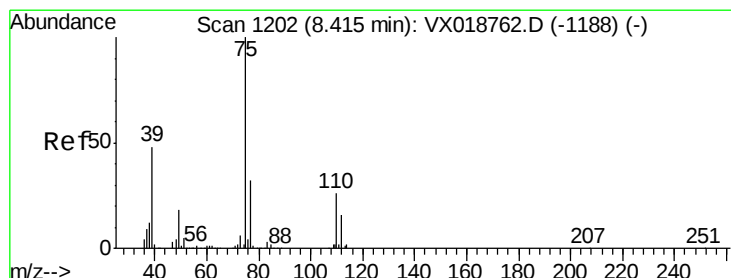
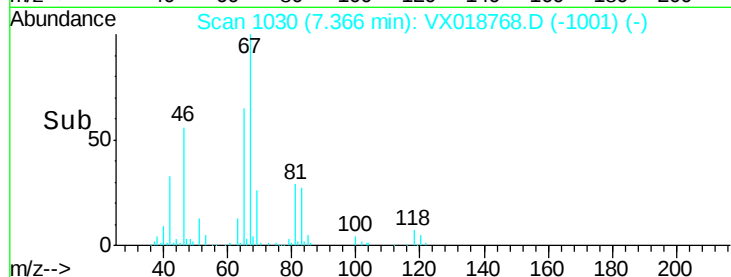
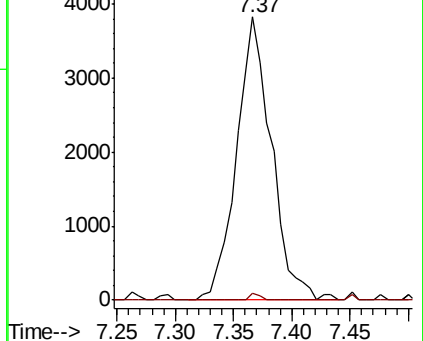
63 100

112 0.7 4.7 7.1#



Abundance Ion 63.10 (62.80 to 63.80): VX0

Ion 112.10 (111.80 to 112.80): V



#39

cis-1,3-Dichloropropene

Concen: 0.190 ug/L

RT: 8.37 min Scan# 1195

Delta R.T. -0.04 min

Lab File: VX018768.D

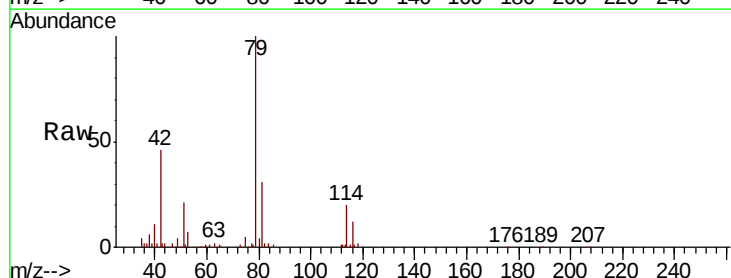
Acq: 05 Oct 2020 16:12

Tgt Ion: 75 Resp: 2226

Ion Ratio Lower Upper

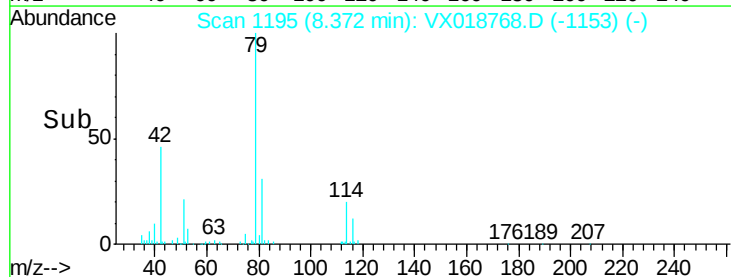
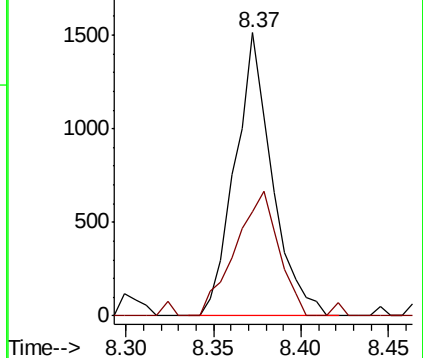
75 100

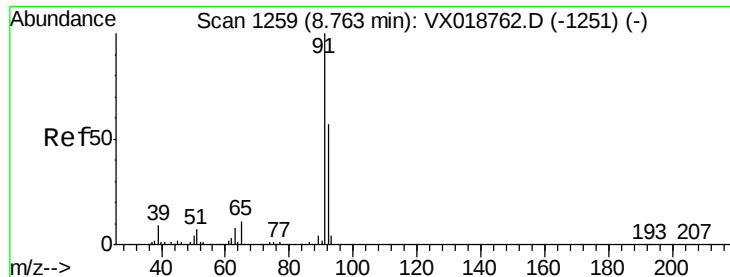
77 36.7 22.5 41.7



Abundance Ion 75.05 (74.75 to 75.75): VX0

Ion 77.05 (76.75 to 77.75): VX0





#42

Toluene

Concen: 15.254 ug/L

RT: 8.76 min Scan# 1259

Delta R.T. -0.00 min

Lab File: VX018768.D

Acq: 05 Oct 2020 16:12

Instrument :

MSVOA_X

ClientSampleId :

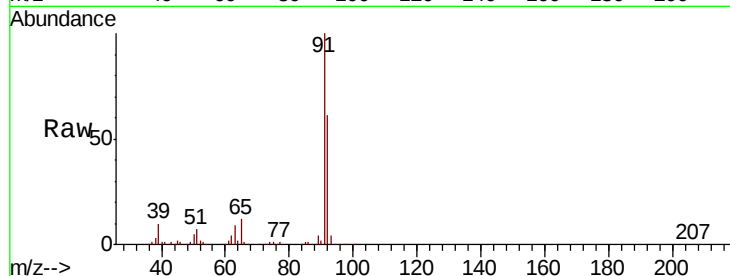
BG3N2DL2

Tot Ion: 91 Resp: 488781

Ion Ratio Lower Upper

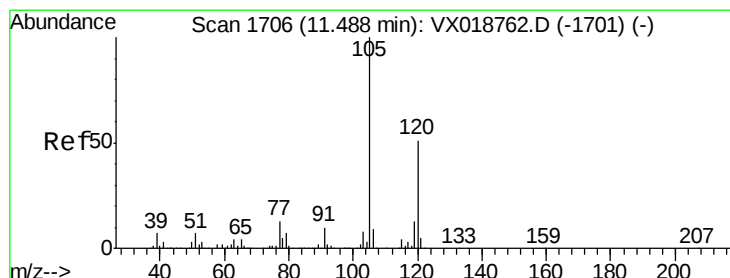
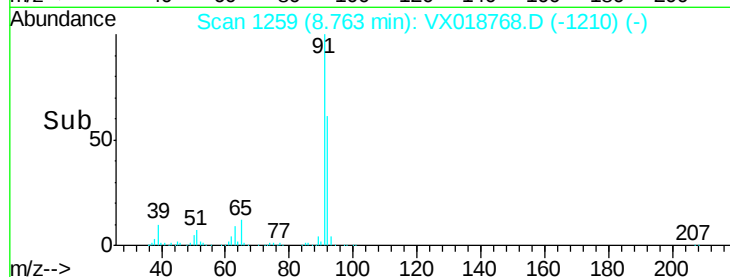
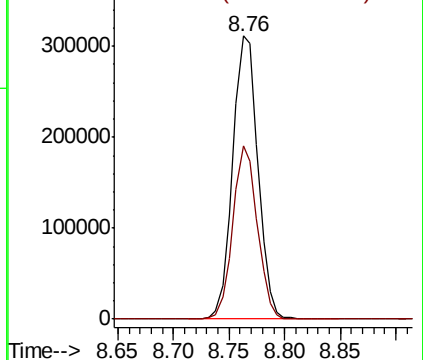
91 100

92 61.3 40.3 74.9



Abundance Ion 91.15 (90.85 to 91.85): VX0

Ion 92.15 (91.85 to 92.85): VX0



#43

1,3,5-Trimethylbenzene

Concen: 1.459 ug/L

RT: 11.49 min Scan# 1706

Delta R.T. -0.00 min

Lab File: VX018768.D

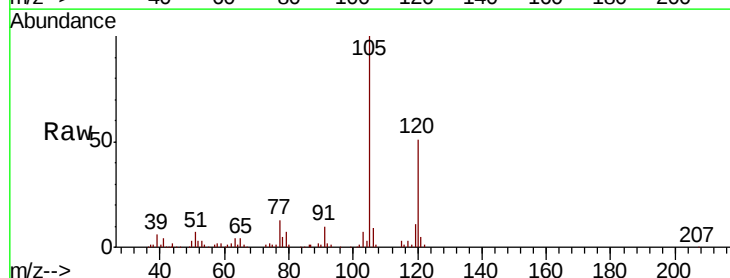
Acq: 05 Oct 2020 16:12

Tgt Ion: 105 Resp: 44262

Ion Ratio Lower Upper

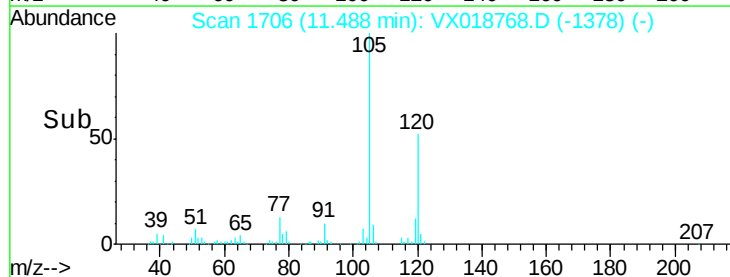
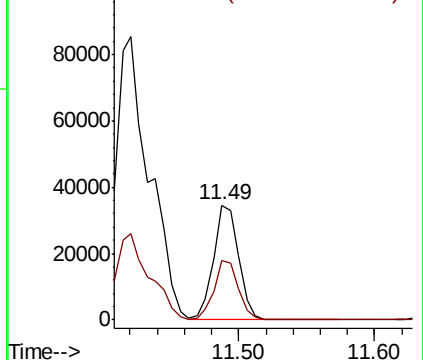
105 100

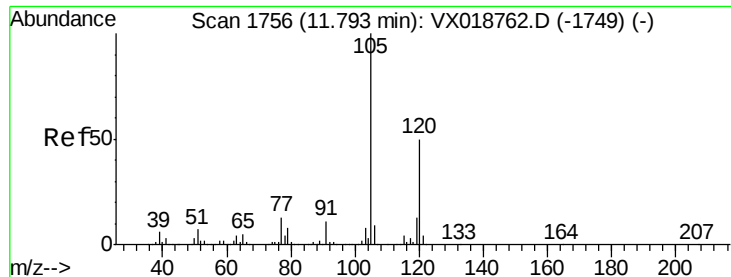
120 50.6 37.7 56.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#44

1,2,4-Trimethylbenzene

Concen: 5.410 ug/L

RT: 11.79 min Scan# 1756

Delta R.T. -0.00 min

Lab File: VX018768.D

Acq: 05 Oct 2020 16:12

Instrument :

MSVOA_X

ClientSampleId :

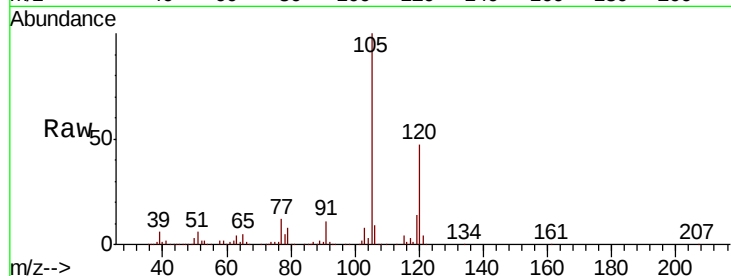
BG3N2DL2

Tot Ion:105 Resp: 166538

Ion Ratio Lower Upper

105 100

120 45.9 35.1 52.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.79

150000

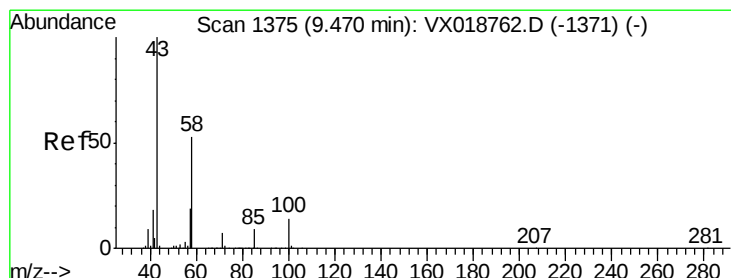
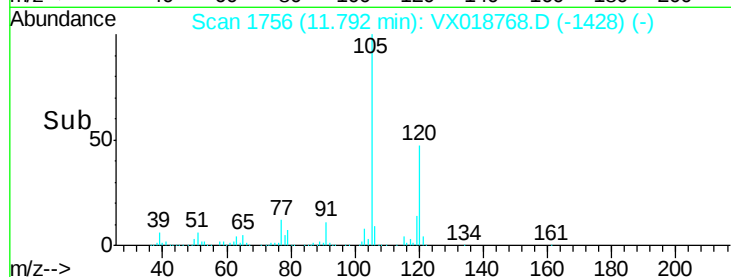
100000

50000

0

Time-->

11.75 11.80 11.85



#50

2-Hexanone

Concen: 5.241 ug/L

RT: 9.43 min Scan# 1368

Delta R.T. -0.04 min

Lab File: VX018768.D

Acq: 05 Oct 2020 16:12

Tgt Ion: 43 Resp: 16179

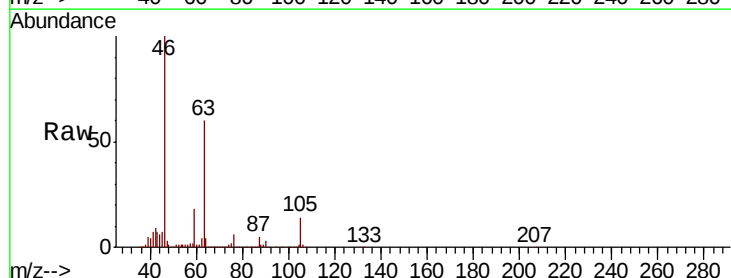
Ion Ratio Lower Upper

43 100

58 25.8 41.0 61.4#

57 28.1 15.9 23.9#

100 0.9 10.1 15.1#



Abundance Ion 43.05 (42.75 to 43.75): VX0

Ion 58.05 (57.75 to 58.75): VX0

Ion 57.20 (56.90 to 57.90): VX0

Ion 100.15 (99.85 to 100.85): VX0

9.43

15000

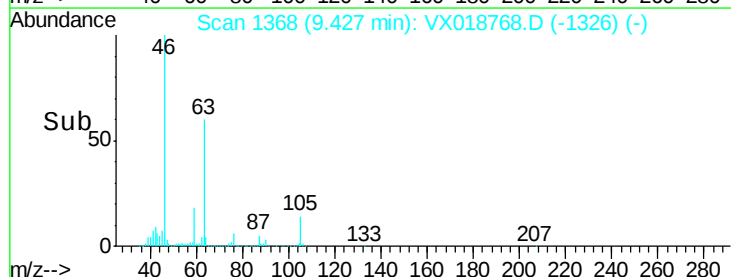
10000

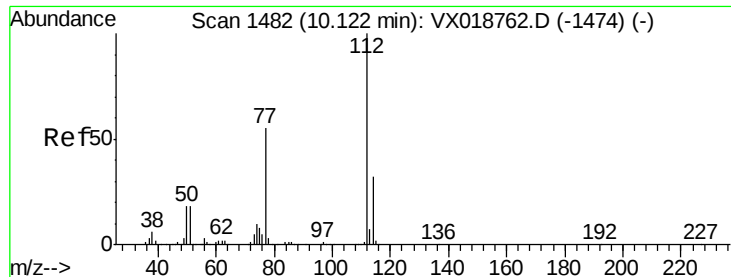
5000

0

Time-->

9.35 9.40 9.45 9.50 9.55





#53

Chlorobenzene

Concen: 0.068 ug/L

RT: 10.13 min Scan# 1483

Delta R.T. 0.01 min

Lab File: VX018768.D

Acq: 05 Oct 2020 16:12

Instrument :

MSVOA_X

ClientSampled :

BG3N2DL2

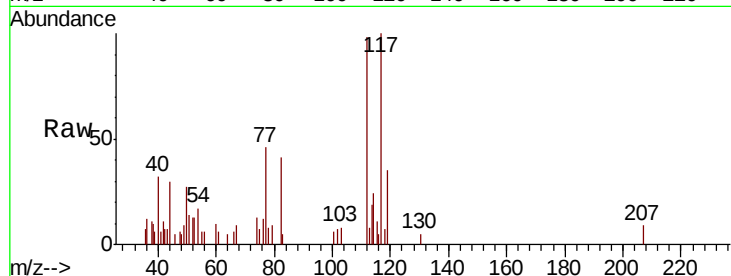
Tot Ion: 112 Resp: 1498

Ion Ratio Lower Upper

112 100

114 22.8 21.3 39.5

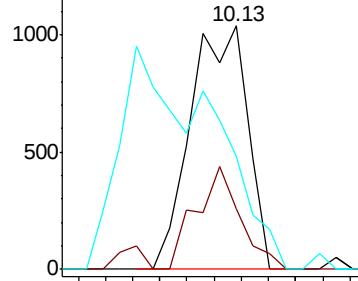
77 42.8 42.4 63.6



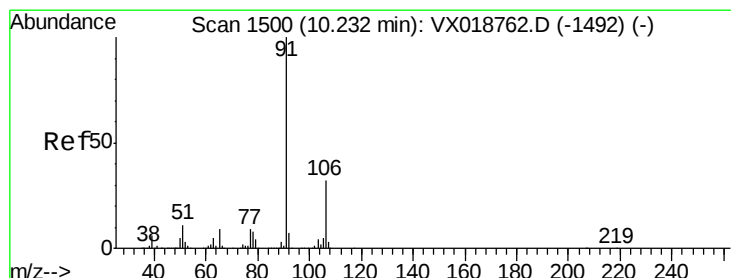
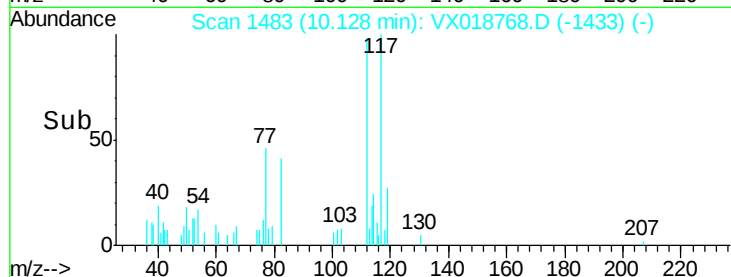
Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VX0



Time-->



#54

Ethylbenzene

Concen: 1.095 ug/L

RT: 10.24 min Scan# 1501

Delta R.T. 0.01 min

Lab File: VX018768.D

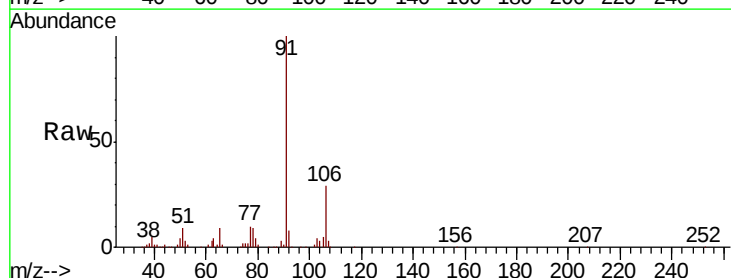
Acq: 05 Oct 2020 16:12

Tgt Ion: 91 Resp: 39316

Ion Ratio Lower Upper

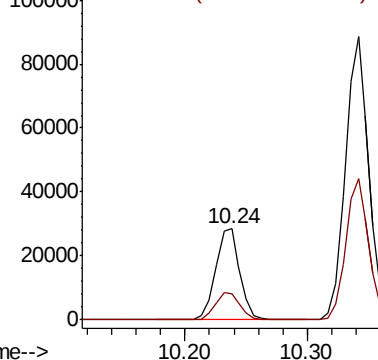
91 100

106 29.2 21.5 39.9

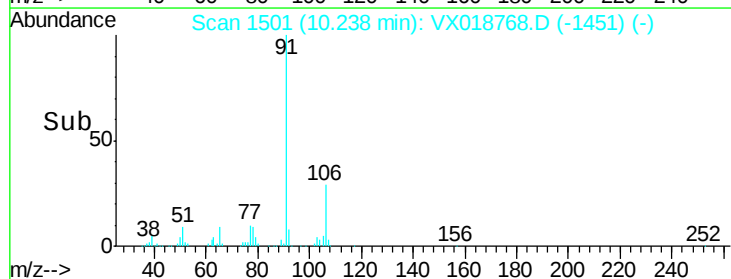


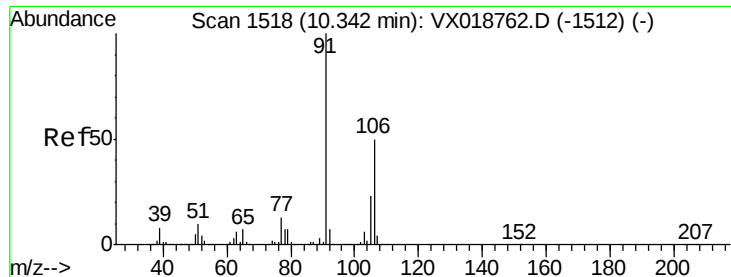
Abundance Ion 91.15 (90.85 to 91.85): VX0

Ion 106.15 (105.85 to 106.85): V



Time-->





#55

m,p-xylene

Concen: 4.134 ug/L

RT: 10.34 min Scan# 1518

Delta R.T. -0.00 min

Lab File: VX018768.D

Acq: 05 Oct 2020 16:12

Instrument :

MSVOA_X

ClientSampleId :

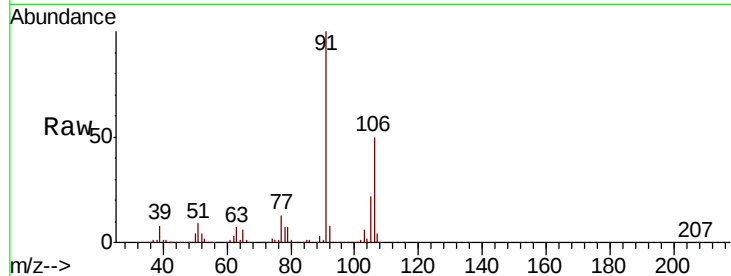
BG3N2DL2

Tot Ion:106 Resp: 57929

Ion Ratio Lower Upper

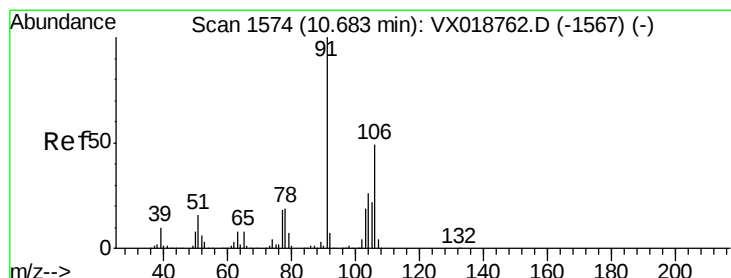
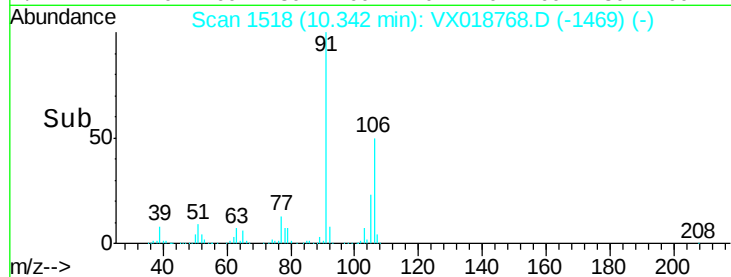
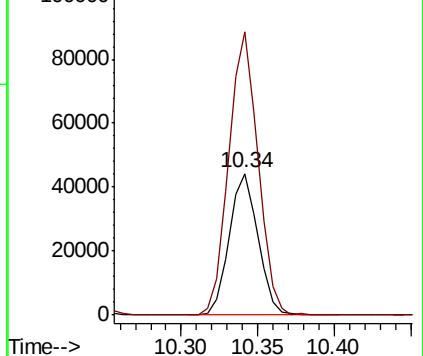
106 100

91 200.3 143.4 266.2



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VX0



#56

o-xylene

Concen: 2.186 ug/L

RT: 10.68 min Scan# 1574

Delta R.T. -0.00 min

Lab File: VX018768.D

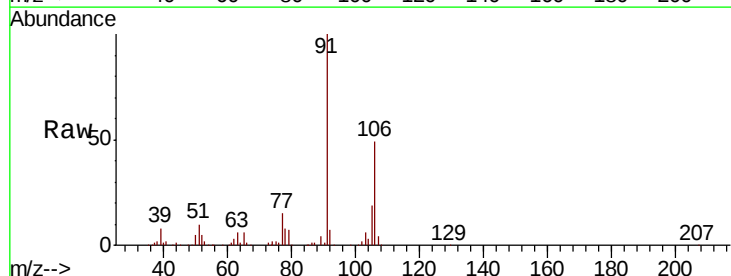
Acq: 05 Oct 2020 16:12

Tgt Ion:106 Resp: 28309

Ion Ratio Lower Upper

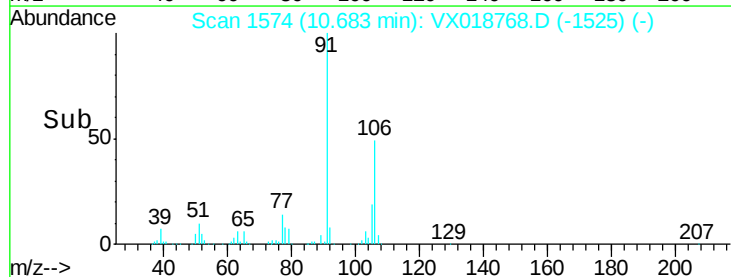
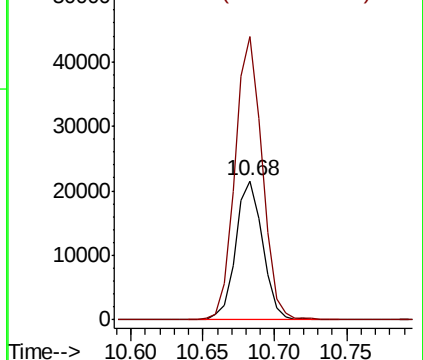
106 100

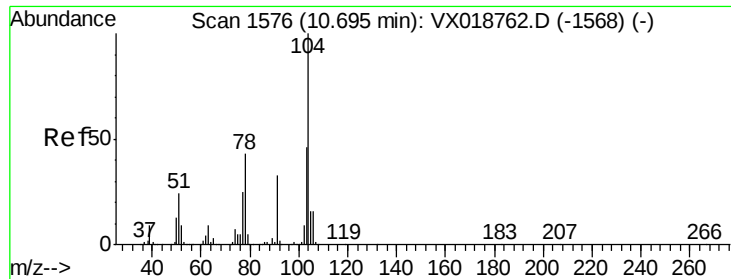
91 203.3 153.4 284.8



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VX0





#57

Stvrene

Concen: 0.088 ug/L

RT: 10.68 min Scan# 1573

Delta R.T. -0.02 min

Lab File: VX018768.D

Acq: 05 Oct 2020 16:12

Instrument :

MSVOA_X

ClientSampleId :

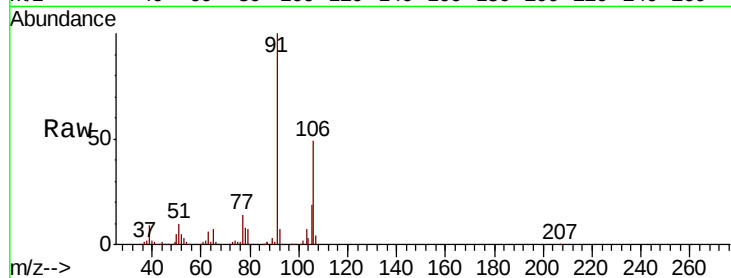
BG3N2DL2

Tot Ion:104 Resp: 1943

Ion Ratio Lower Upper

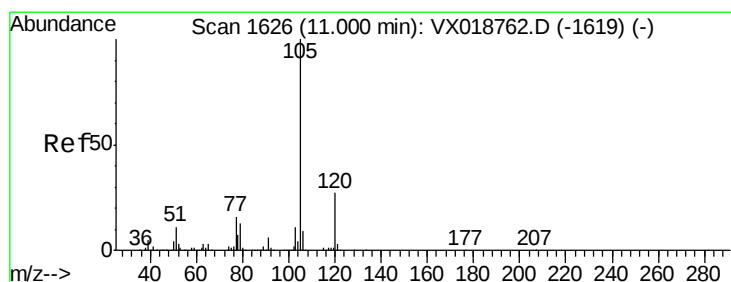
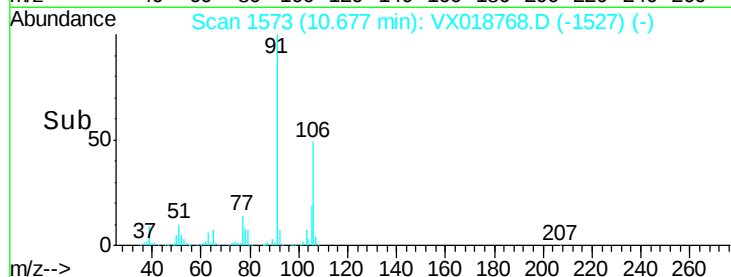
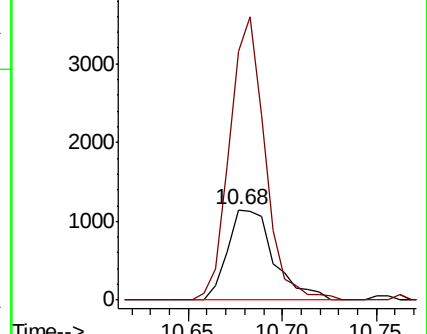
104 100

78 274.4 37.1 68.9#



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VX0



#58

Isopropylbenzene

Concen: 0.253 ug/L

RT: 11.00 min Scan# 1626

Delta R.T. -0.00 min

Lab File: VX018768.D

Acq: 05 Oct 2020 16:12

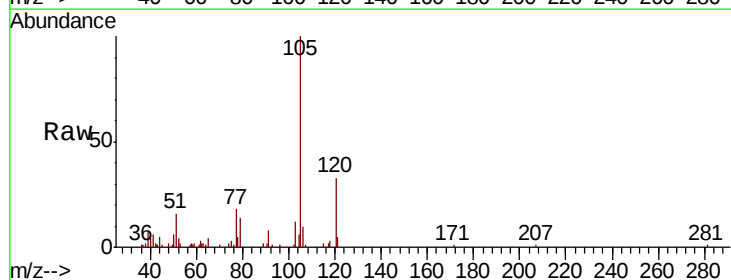
Tgt Ion:105 Resp: 9164

Ion Ratio Lower Upper

105 100

120 29.5 20.2 30.2

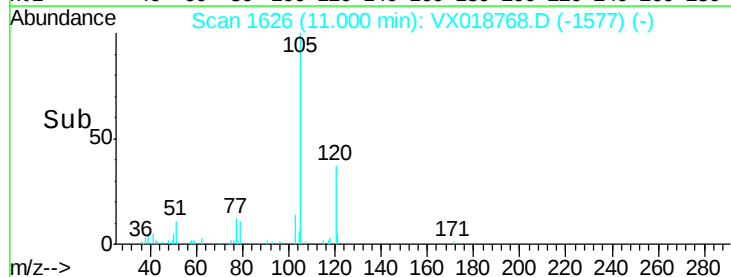
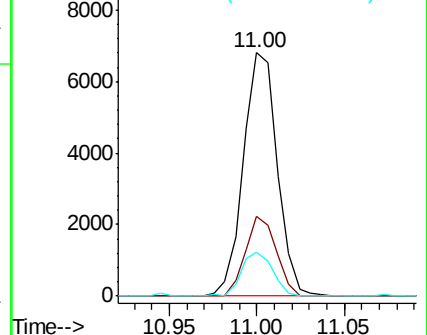
77 16.9 13.3 19.9

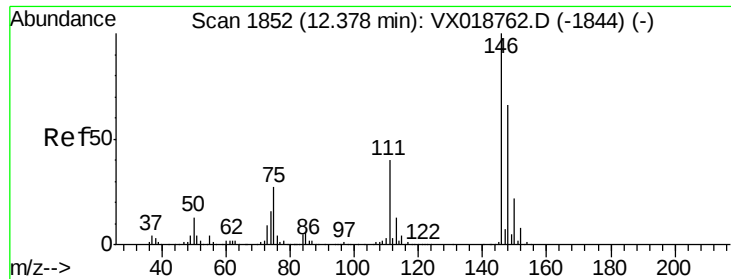


Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): VX0





#66

1,2-Dichlorobenzene

Concen: 0.154 ug/L

RT: 12.38 min Scan# 1852

Delta R.T. -0.00 min

Lab File: VX018768.D

Acq: 05 Oct 2020 16:12

Instrument :

MSVOA_X

ClientSampled :

BG3N2DL2

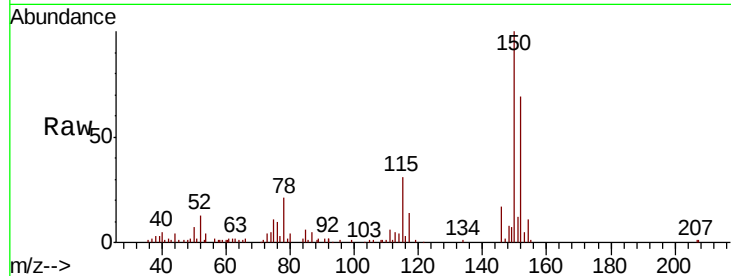
Tot Ion:146 Resp: 2452

Ion Ratio Lower Upper

146 100

111 35.0 31.7 47.5

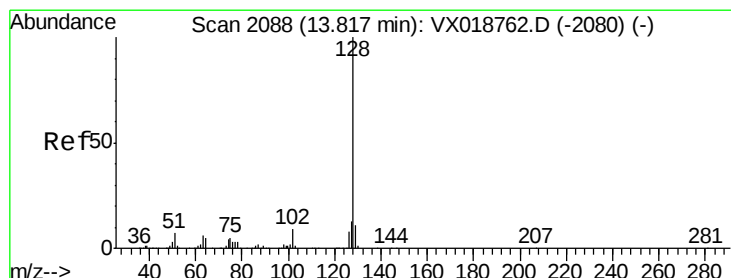
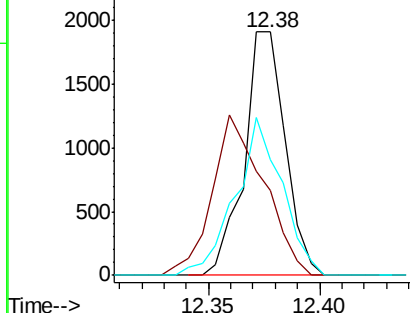
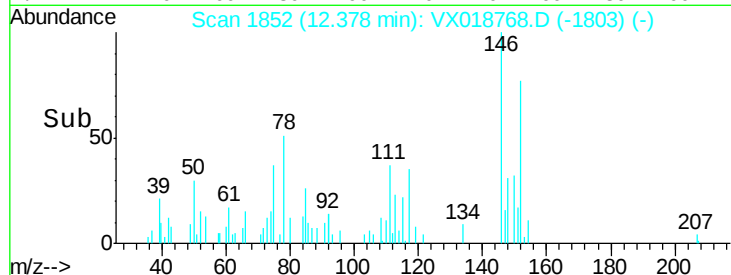
148 47.5 49.0 73.6#



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



#70

Naphthalene

Concen: 0.898 ug/L

RT: 13.82 min Scan# 2088

Delta R.T. -0.00 min

Lab File: VX018768.D

Acq: 05 Oct 2020 16:12

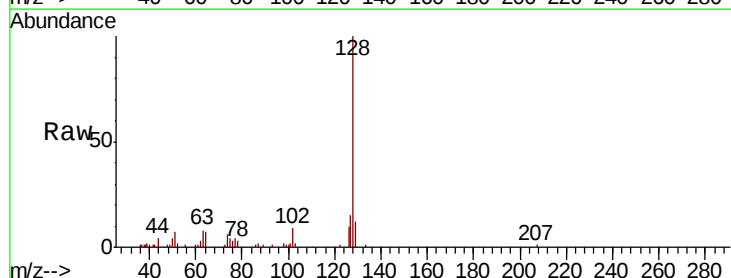
Tgt Ion:128 Resp: 16015

Ion Ratio Lower Upper

128 100

129 11.4 9.0 13.4

127 14.7 10.5 15.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

