

Data File : VX018717.D
Acq On : 30 Sep 2020 23:15
Operator : JC/SP
Sample : L4171-11
Misc : 25.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BG3Q1

Quant Time: Oct 01 02:44:14 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\SOMXTR092820WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 01 01:06:26 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.83	114	207302	5.00	ug/L	0.00
28) Chlorobenzene-d5	10.10	117	205485	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	12.06	152	104437	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	31826	2.93	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	58.60%
7) Chloroethane-d5	1.70	69	31438	3.44	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	68.80%
11) 1,1-Dichloroethene-d2	2.34	63	59873	2.50	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	50.00%#
20) 2-Butanone-d5	4.54	46	131544	47.56	ug/L	-0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	95.12%
24) Chloroform-d	5.14	84	98417	3.83	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	76.60%
26) 1,2-Dichloroethane-d4	6.03	65	57283	3.82	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	76.40%
32) Benzene-d6	6.05	84	164564	3.47	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	69.40%#
36) 1,2-Dichloropropane-d6	7.37	67	53204	3.68	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	73.60%
41) Toluene-d8	8.70	98	145260	3.08	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	61.60%#
45) trans-1,3-Dichloropropene-	8.99	79	22189	3.45	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	69.00%
48) 2-Hexanone-d5	9.43	63	97293	42.27	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	84.54%
59) 1,1,2,2-Tetrachloroethane-	11.23	84	45947	4.27	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	85.40%
65) 1,2-Dichlorobenzene-d4	12.36	152	63901	3.74	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	74.80%#

Target Compounds

					Qvalue
3) Chloromethane	1.31	50	2283	0.213 ug/L #	67
5) Vinyl chloride	1.39	62	6705	0.597 ug/L	89
8) Chloroethane	1.72	64	2329	0.377 ug/L	87
12) 1,1-Dichloroethene	2.35	96	1156	0.114 ug/L #	1
13) Acetone	2.45	43	36626	23.922 ug/L	98
14) Carbon disulfide	2.56	76	14608	0.475 ug/L #	86
15) Methyl Acetate	2.82	43	13516	3.189 ug/L #	49
16) Methylene chloride	2.82	84	1450	0.105 ug/L #	36
17) Methyl tert-butyl Ether	3.17	73	1842	0.082 ug/L #	1
19) 1,1-Dichloroethane	3.67	63	10932	0.603 ug/L	92
22) cis-1,2-Dichloroethene	4.56	96	4190	0.397 ug/L #	91
27) 1,2-Dichloroethane	6.17	62	2805	0.224 ug/L #	76
30) Cyclohexane	5.55	56	8288	0.532 ug/L	90
42) Toluene	8.76	91	309581	7.234 ug/L	98
43) 1,3,5-Trimethylbenzene	11.49	105	3880	0.104 ug/L	100
44) 1,2,4-Trimethylbenzene	11.79	105	19074	0.510 ug/L	97
47) 1,1,2-Trichloroethane	9.20	97	1136	0.150 ug/L #	78

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Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Oct 01 01:06:26 2020
Response via : Initial Calibration

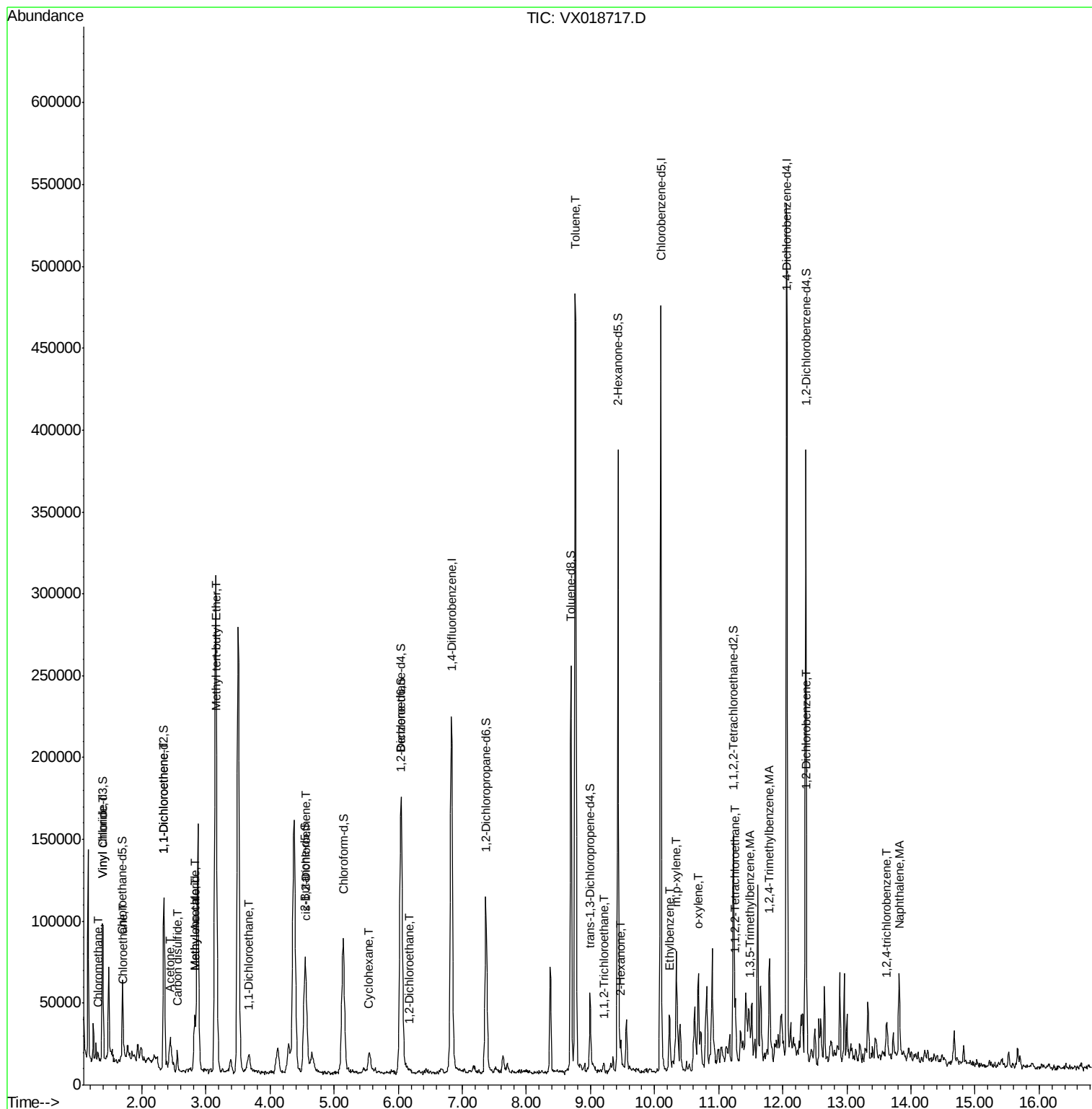
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 2-Hexanone	9.48	43	8523	2.055	ug/L #	92
54) Ethylbenzene	10.23	91	16259	0.349	ug/L	91
55) m,p-xylene	10.34	106	14593	0.819	ug/L	94
56) o-xylene	10.68	106	11479	0.682	ug/L	71
60) 1,1,2,2-Tetrachloroethane	11.26	83	2693	0.314	ug/L #	37
66) 1,2-Dichlorobenzene	12.38	146	1974	0.093	ug/L	94
69) 1,2,4-trichlorobenzene	13.63	180	1412	0.101	ug/L #	58
70) Naphthalene	13.82	128	25674	1.087	ug/L	94

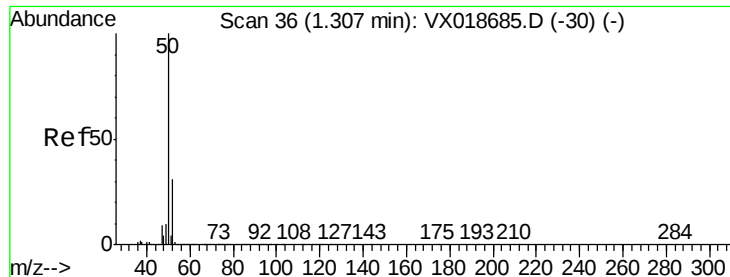
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.213 ug/L

RT: 1.31 min Scan# 37

Delta R.T. 0.01 min

Lab File: VX018717.D

Acq: 30 Sep 2020 23:15

Instrument :

MSVOA_X

ClientSampleId :

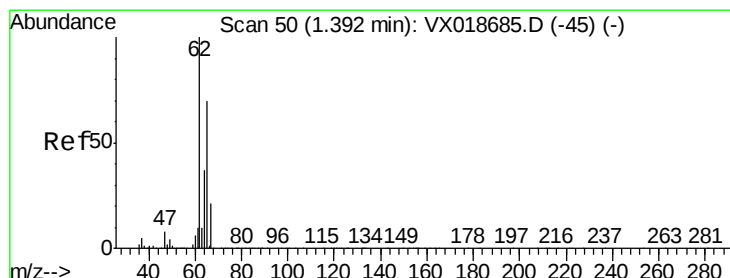
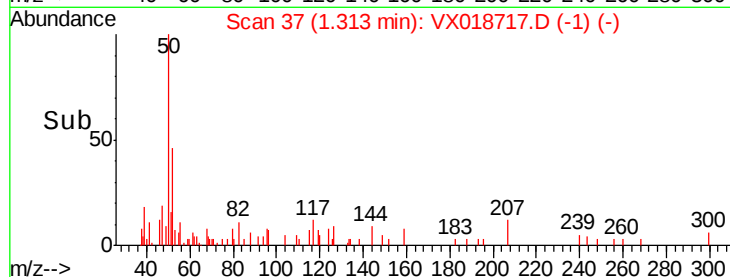
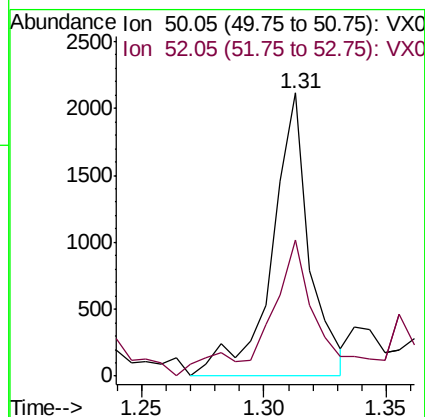
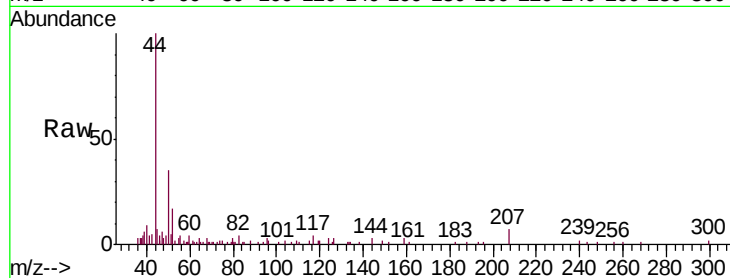
BG3Q1

Tgt Ion: 50 Resp: 2283

Ion Ratio Lower Upper

50 100

52 48.1 21.2 39.4#



#5

Vinyl chloride

Concen: 0.597 ug/L

RT: 1.39 min Scan# 50

Delta R.T. 0.00 min

Lab File: VX018717.D

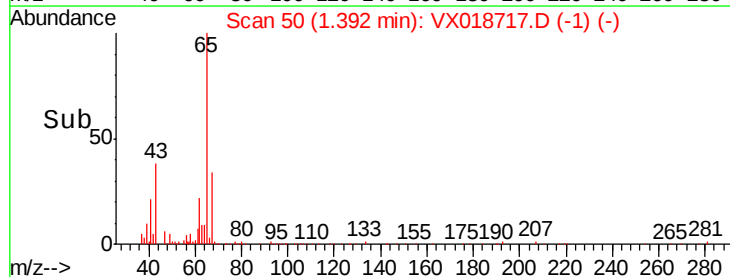
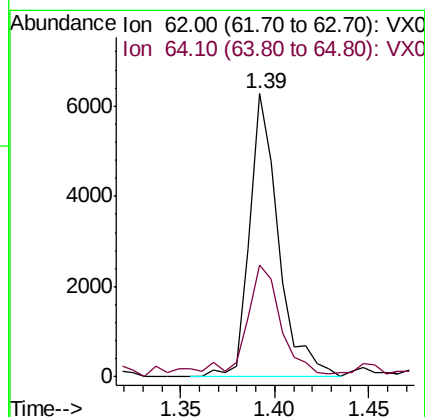
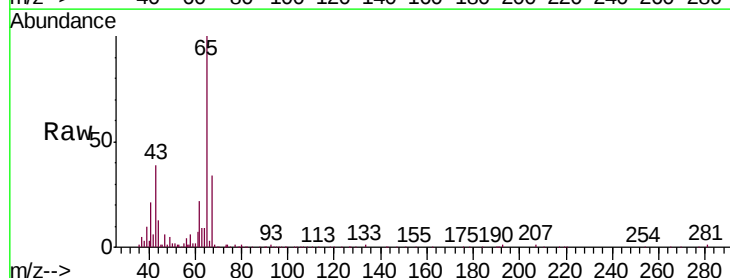
Acq: 30 Sep 2020 23:15

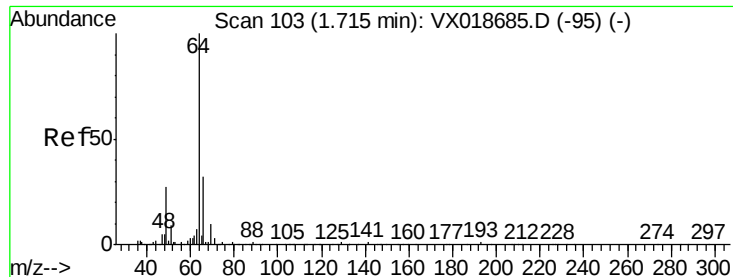
Tgt Ion: 62 Resp: 6705

Ion Ratio Lower Upper

62 100

64 39.7 23.6 43.8





#8

Chloroethane

Concen: 0.377 ug/L

RT: 1.72 min Scan# 103

Delta R.T. 0.00 min

Lab File: VX018717.D

Acq: 30 Sep 2020 23:15

Instrument :

MSVOA_X

ClientSampleId :

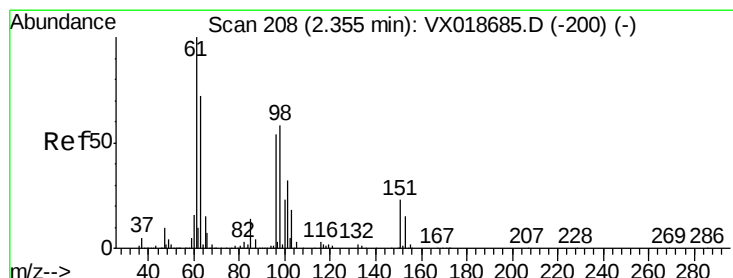
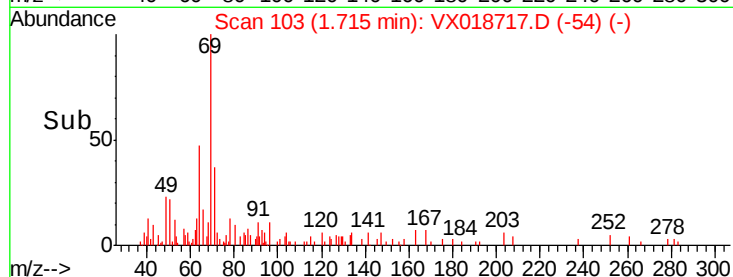
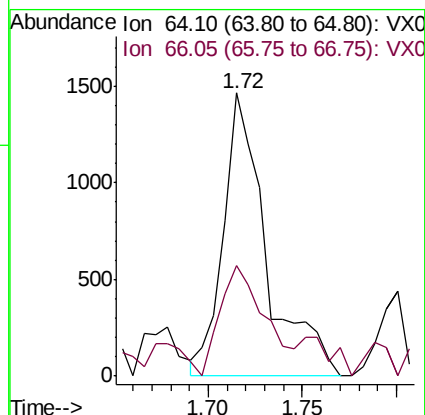
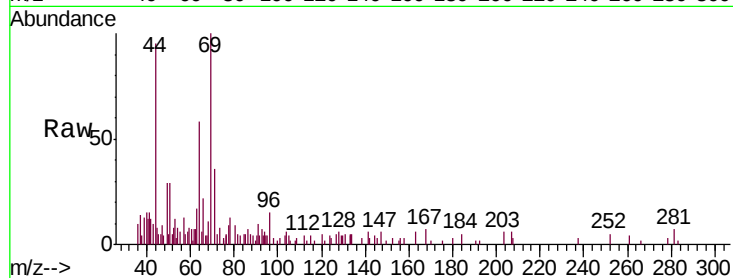
BG3Q1

Tgt Ion: 64 Resp: 2329

Ion Ratio Lower Upper

64 100

66 38.9 22.3 41.3



#12

1,1-Dichloroethene

Concen: 0.114 ug/L

RT: 2.35 min Scan# 207

Delta R.T. -0.01 min

Lab File: VX018717.D

Acq: 30 Sep 2020 23:15

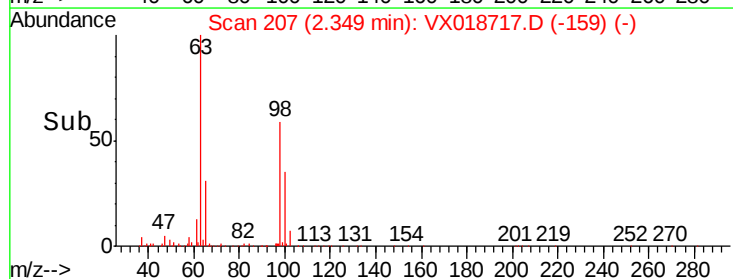
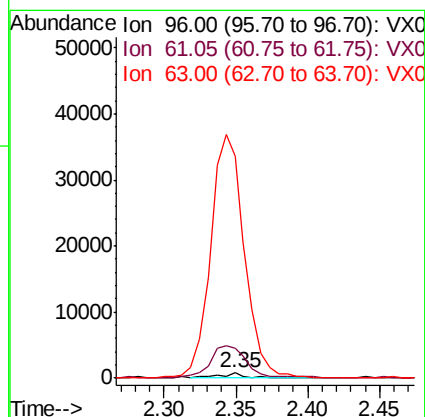
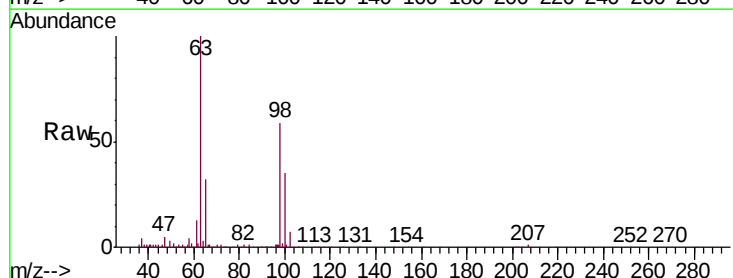
Tgt Ion: 96 Resp: 1156

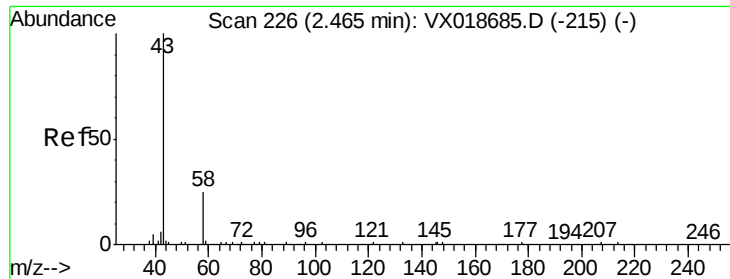
Ion Ratio Lower Upper

96 100

61 408.7 123.8 229.8#

63 3099.1 104.7 194.4#





#13

Acetone

Concen: 23.922 ug/L

RT: 2.45 min Scan# 223

Delta R.T. -0.02 min

Lab File: VX018717.D

Acq: 30 Sep 2020 23:15

Instrument :

MSVOA_X

ClientSampleId :

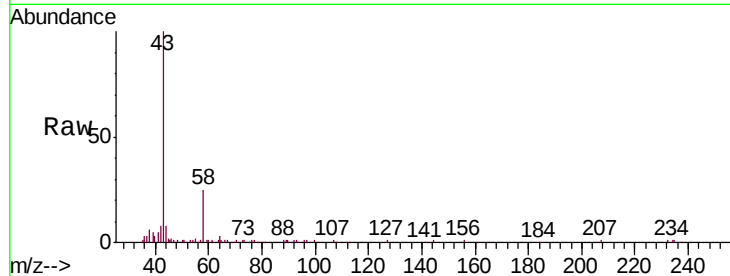
BG3Q1

Tgt Ion: 43 Resp: 36626

Ion Ratio Lower Upper

43 100

58 29.9 0.0 61.6



Abundance Ion 43.05 (42.75 to 43.75): VX0

Ion 58.05 (57.75 to 58.75): VX0

15000

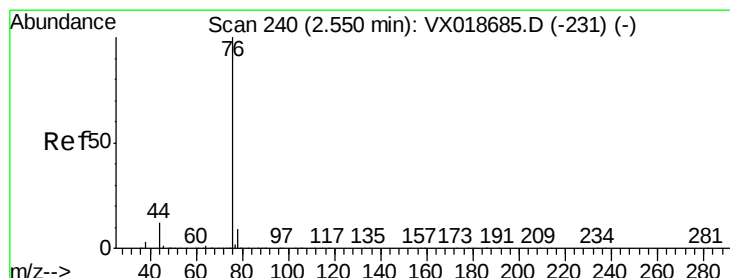
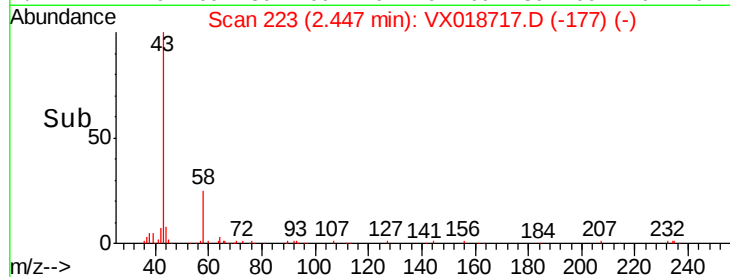
10000

5000

0

2.40 2.45 2.50

Time-->



#14

Carbon disulfide

Concen: 0.475 ug/L

RT: 2.56 min Scan# 241

Delta R.T. 0.01 min

Lab File: VX018717.D

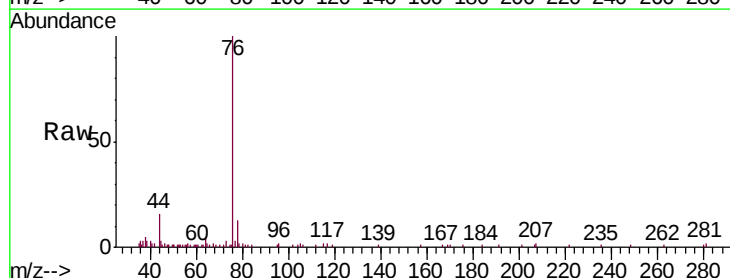
Acq: 30 Sep 2020 23:15

Tgt Ion: 76 Resp: 14608

Ion Ratio Lower Upper

76 100

78 14.2 7.4 11.0#



Abundance Ion 76.05 (75.75 to 76.75): VX0

Ion 78.00 (77.70 to 78.70): VX0

10000

8000

6000

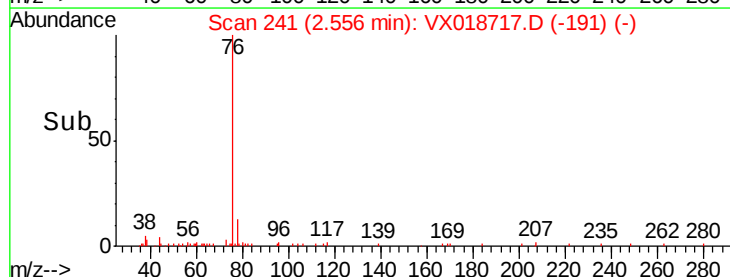
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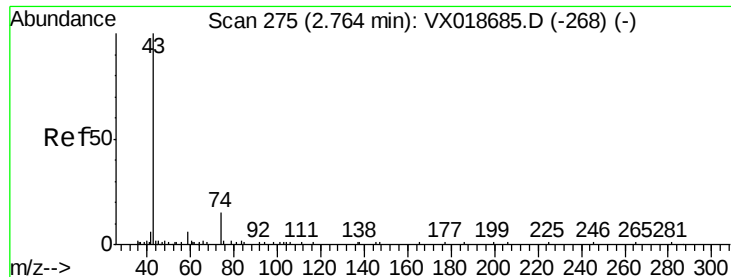
2000

0

2.45 2.50 2.55 2.60

Time-->





#15

Methyl Acetate

Concen: 3.189 ug/L

RT: 2.82 min Scan# 285

Delta R.T. 0.06 min

Lab File: VX018717.D

Acq: 30 Sep 2020 23:15

Instrument :

MSVOA_X

ClientSampleId :

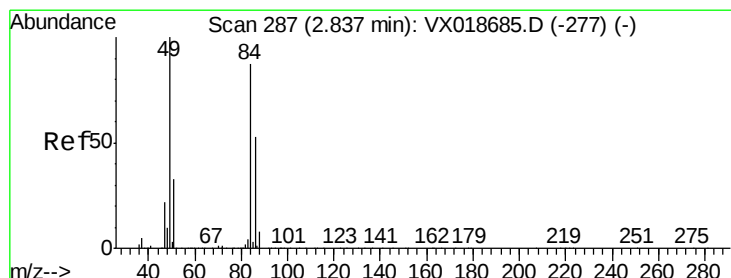
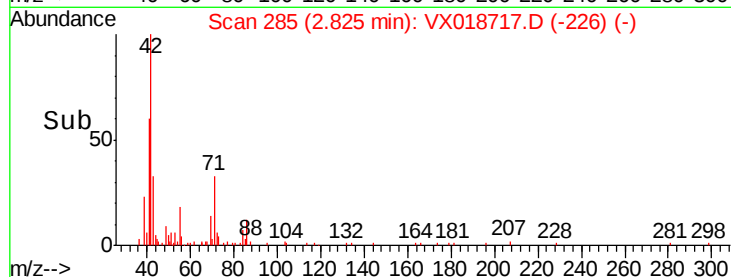
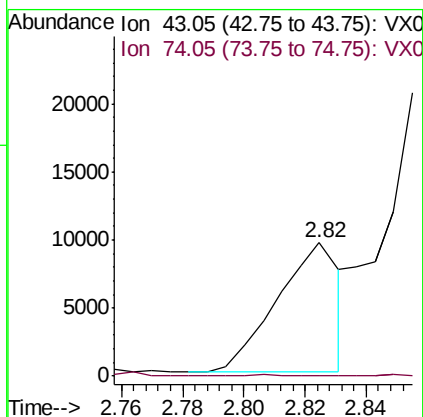
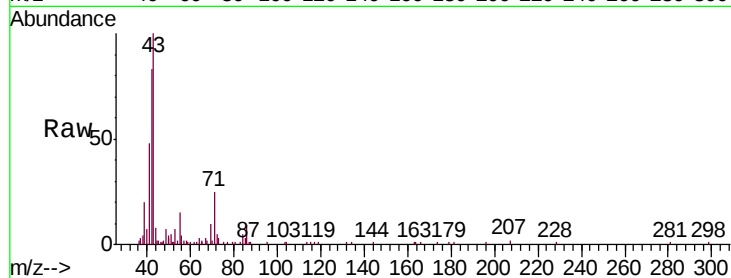
BG3Q1

Tgt Ion: 43 Resp: 13516

Ion Ratio Lower Upper

43 100

74 0.3 21.2 31.8#



#16

Methylene chloride

Concen: 0.105 ug/L

RT: 2.82 min Scan# 284

Delta R.T. -0.02 min

Lab File: VX018717.D

Acq: 30 Sep 2020 23:15

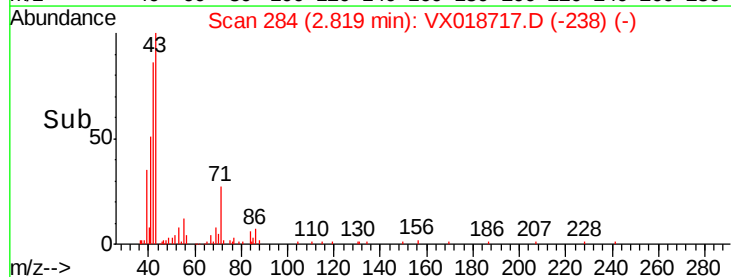
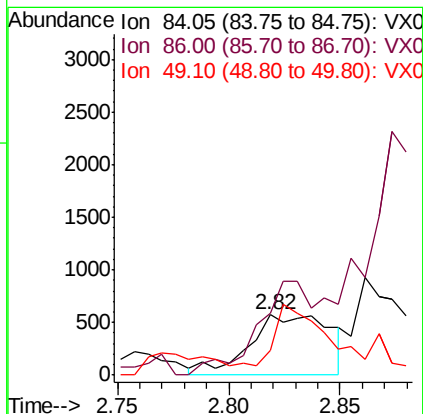
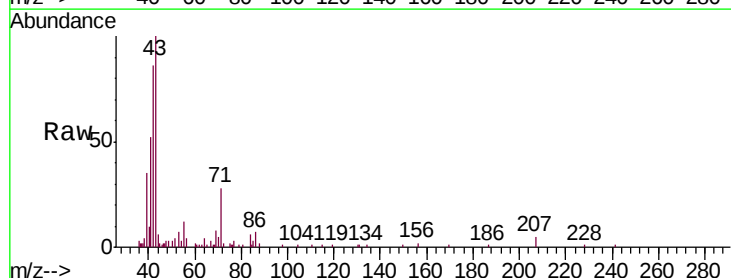
Tgt Ion: 84 Resp: 1450

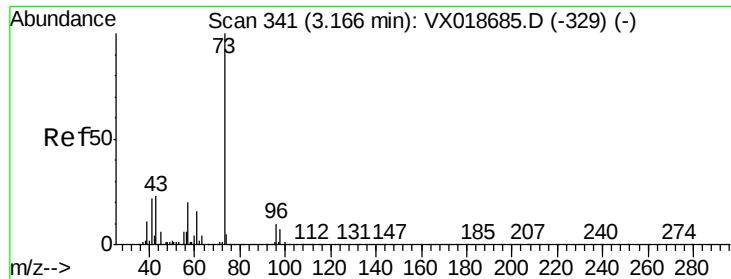
Ion Ratio Lower Upper

84 100

86 102.3 41.9 77.7#

49 41.5 80.8 150.2#

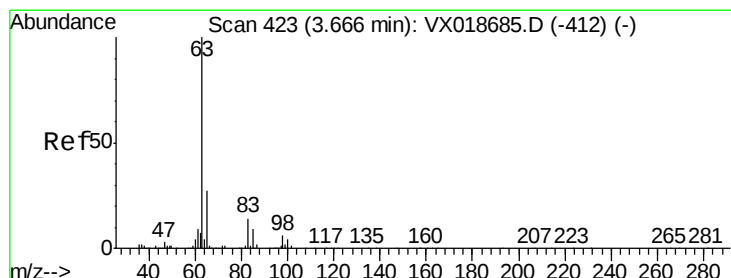
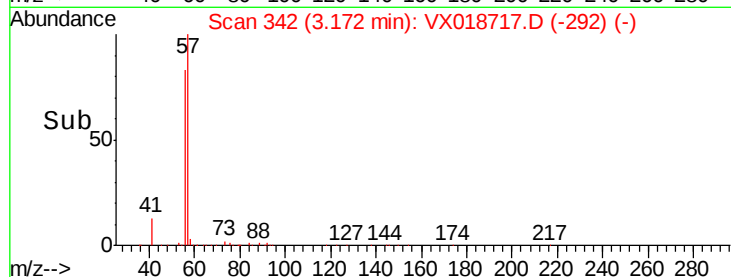
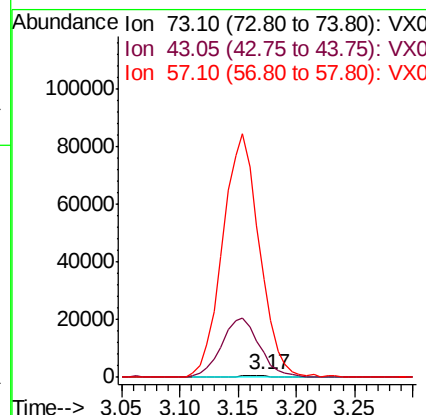
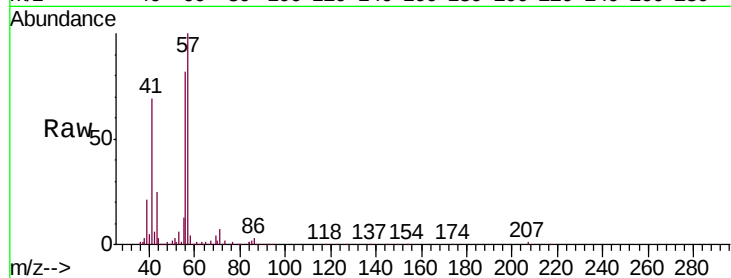




#17
Methyl tert-butyl Ether
Concen: 0.082 ug/L
RT: 3.17 min Scan# 342
Delta R.T. 0.01 min
Lab File: VX018717.D
Acq: 30 Sep 2020 23:15

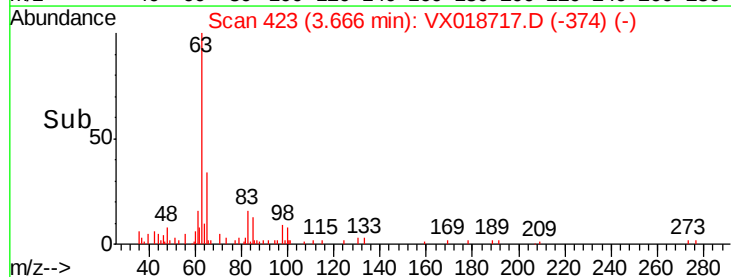
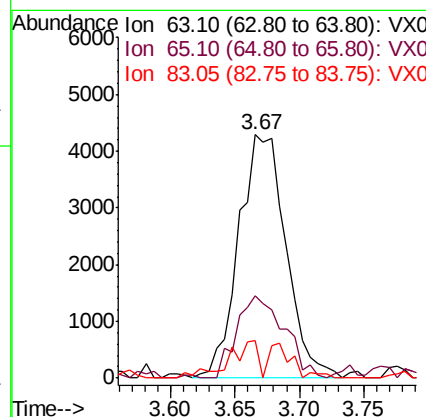
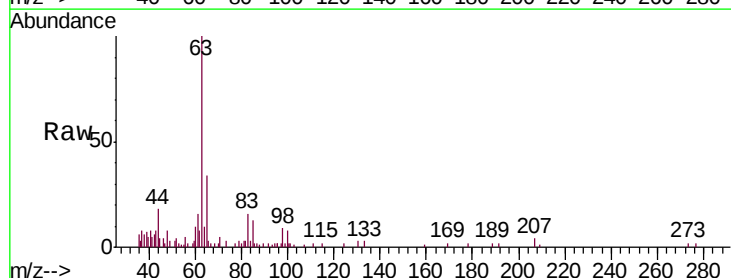
Instrument :
MSVOA_X
ClientSampled :
BG3Q1

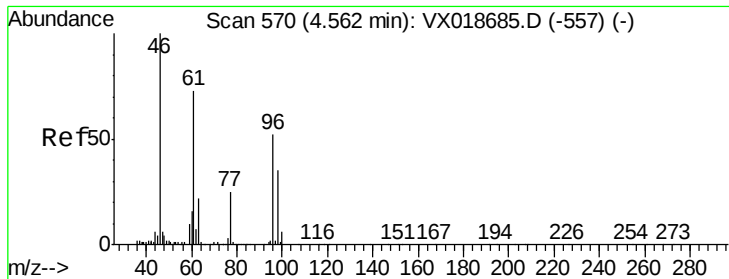
Tgt Ion: 73 Resp: 1842
Ion Ratio Lower Upper
73 100
43 2536.3 18.6 27.8#
57 10106.5 17.3 25.9#



#19
1,1-Dichloroethane
Concen: 0.603 ug/L
RT: 3.67 min Scan# 423
Delta R.T. 0.00 min
Lab File: VX018717.D
Acq: 30 Sep 2020 23:15

Tgt Ion: 63 Resp: 10932
Ion Ratio Lower Upper
63 100
65 37.1 22.7 42.1
83 15.5 9.3 17.3



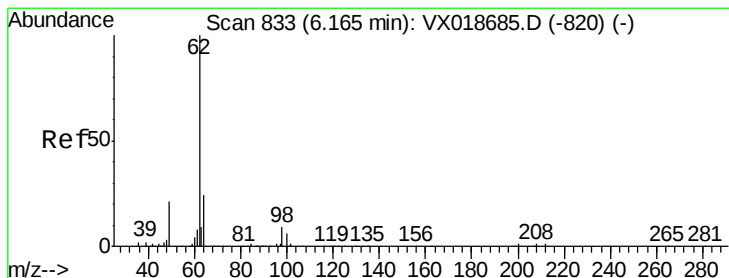
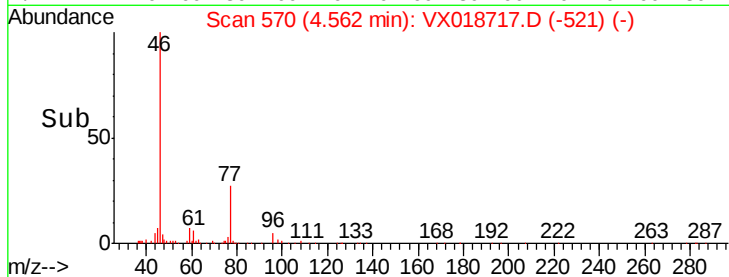
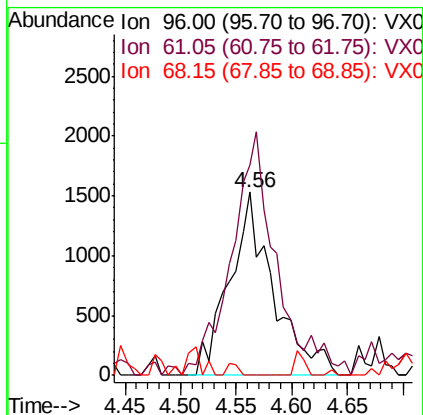
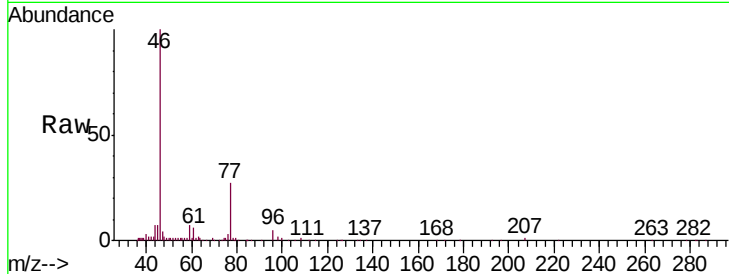


#22

cis-1,2-Dichloroethene
 Concen: 0.397 ug/L
 RT: 4.56 min Scan# 570
 Delta R.T. 0.00 min
 Lab File: VX018717.D
 Acq: 30 Sep 2020 23:15

Instrument :
 MSVOA_X
 ClientSampled :
 BG3Q1

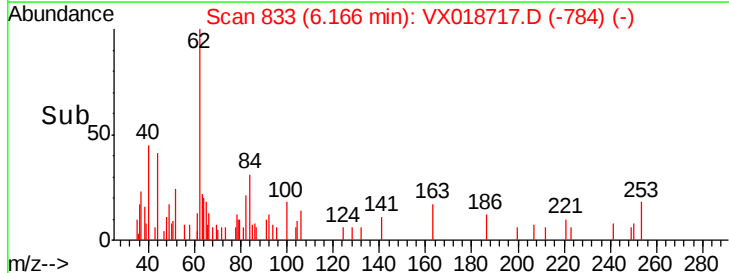
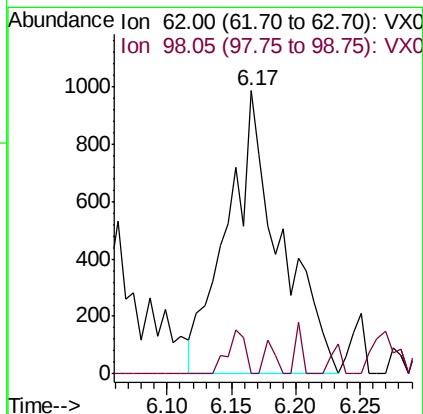
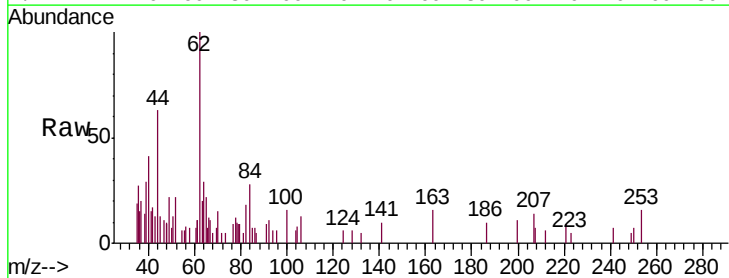
Tgt Ion: 96 Resp: 4190
 Ion Ratio Lower Upper
 96 100
 61 114.8 87.7 162.9
 68 0.0 0.3 0.7#

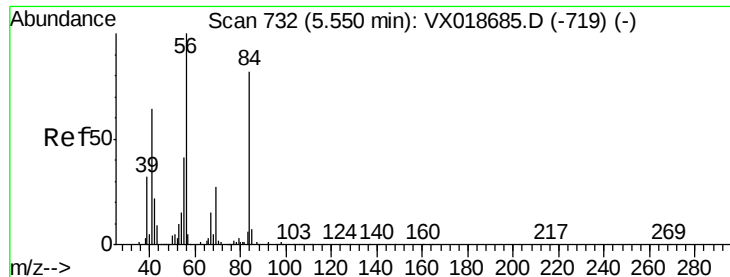


#27

1,2-Dichloroethane
 Concen: 0.224 ug/L
 RT: 6.17 min Scan# 833
 Delta R.T. 0.00 min
 Lab File: VX018717.D
 Acq: 30 Sep 2020 23:15

Tgt Ion: 62 Resp: 2805
 Ion Ratio Lower Upper
 62 100
 98 0.0 7.0 10.4#

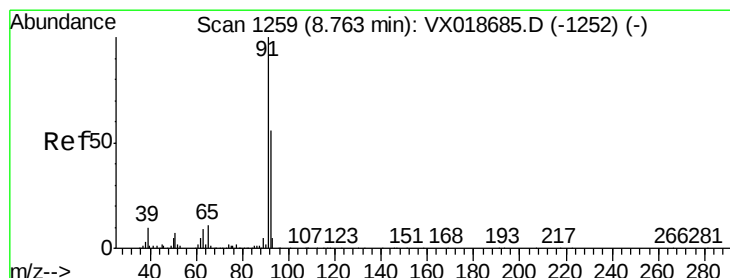
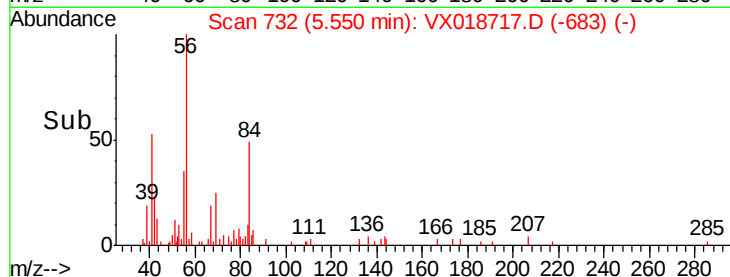
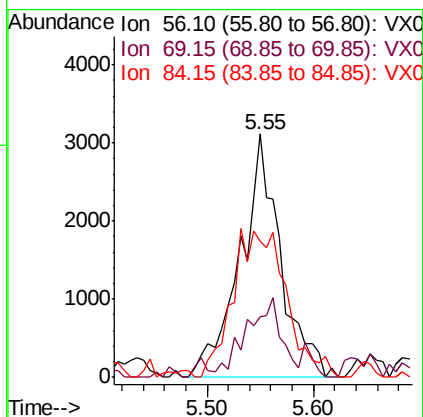
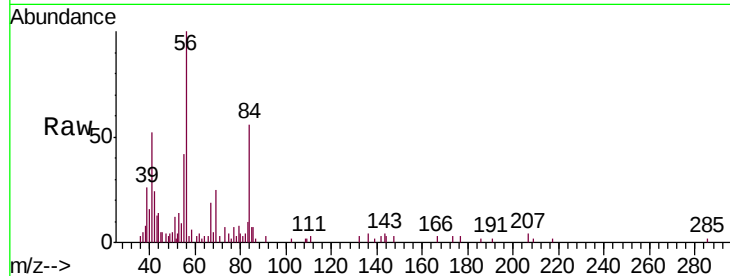




#30
Cyclohexane
Concen: 0.532 ug/L
RT: 5.55 min Scan# 732
Delta R.T. 0.00 min
Lab File: VX018717.D
Acq: 30 Sep 2020 23:15

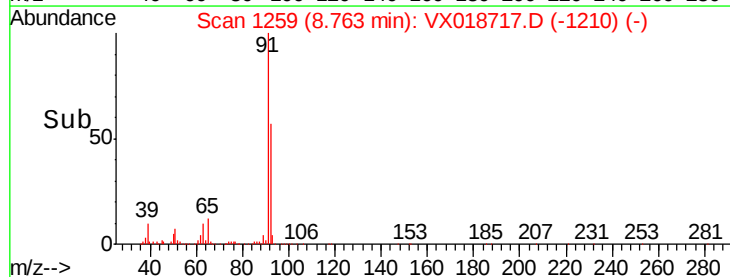
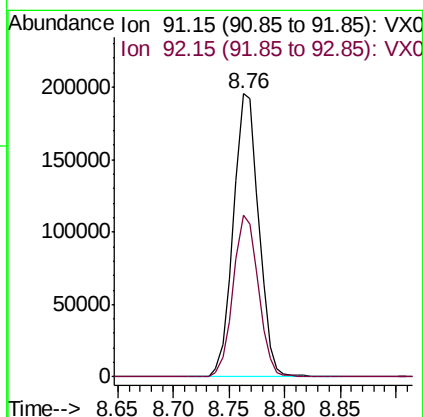
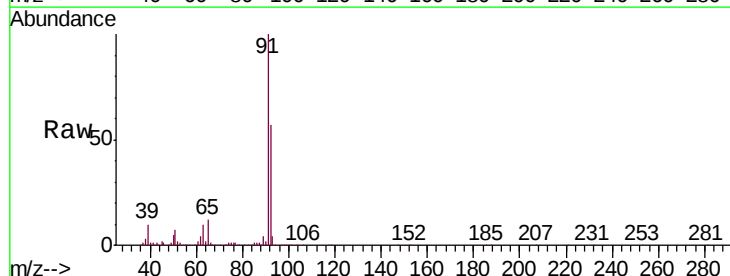
Instrument :
MSVOA_X
ClientSampleId :
BG3Q1

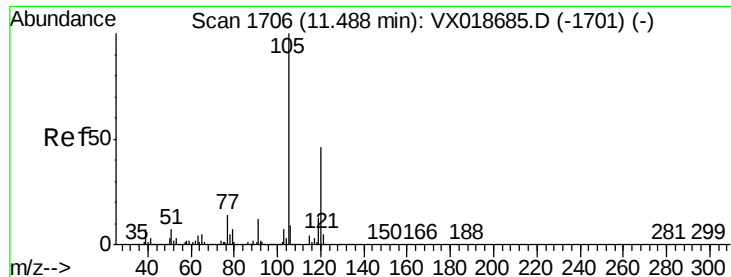
Tgt Ion: 56 Resp: 8288
Ion Ratio Lower Upper
56 100
69 28.5 26.4 39.6
84 80.1 72.7 109.1



#42
Toluene
Concen: 7.234 ug/L
RT: 8.76 min Scan# 1259
Delta R.T. 0.00 min
Lab File: VX018717.D
Acq: 30 Sep 2020 23:15

Tgt Ion: 91 Resp: 309581
Ion Ratio Lower Upper
91 100
92 57.3 41.1 76.3





#43

1,3,5-Trimethylbenzene

Concen: 0.104 ug/L

RT: 11.49 min Scan# 1706

Delta R.T. 0.00 min

Lab File: VX018717.D

Acq: 30 Sep 2020 23:15

Instrument :

MSVOA_X

ClientSampleId :

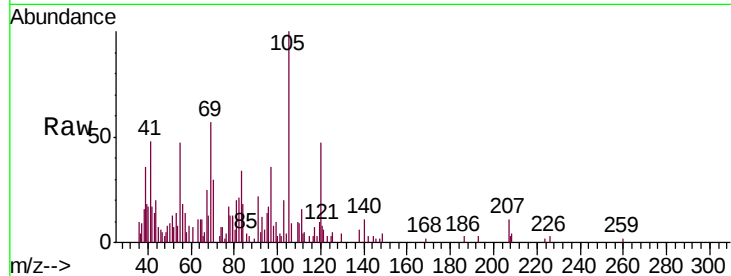
BG3Q1

Tgt Ion:105 Resp: 3880

Ion Ratio Lower Upper

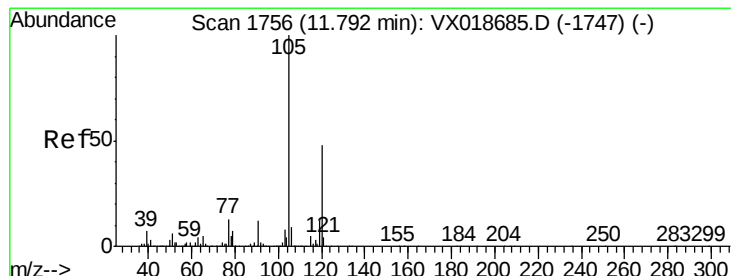
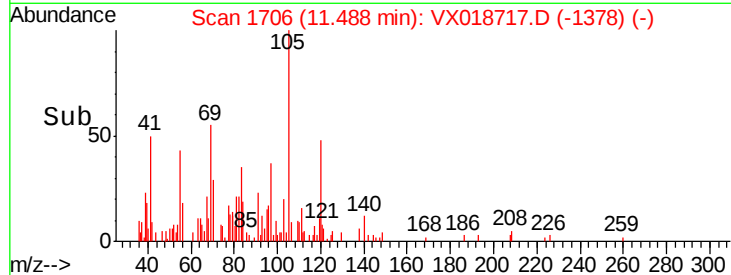
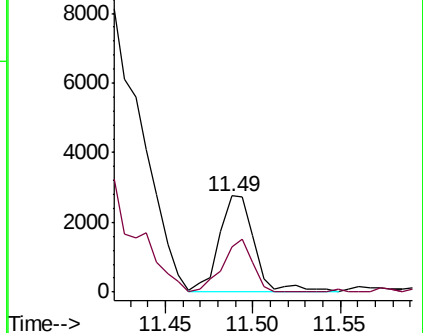
105 100

120 46.2 37.2 55.8



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: 0.510 ug/L

RT: 11.79 min Scan# 1756

Delta R.T. 0.00 min

Lab File: VX018717.D

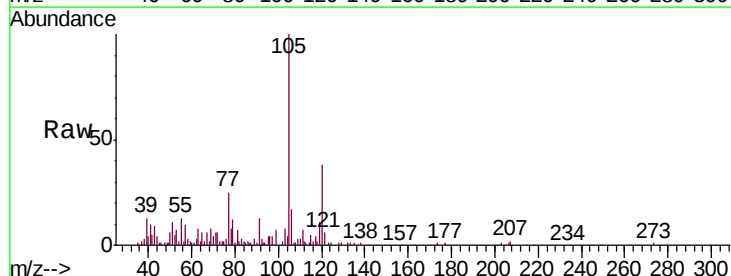
Acq: 30 Sep 2020 23:15

Tgt Ion:105 Resp: 19074

Ion Ratio Lower Upper

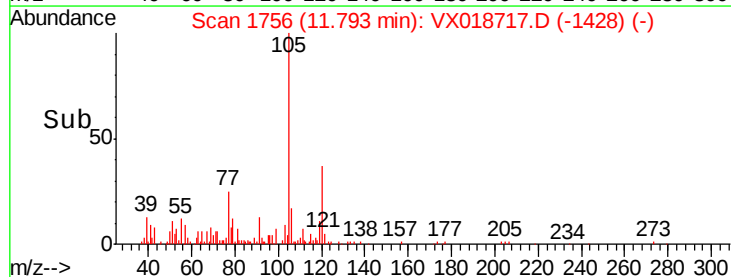
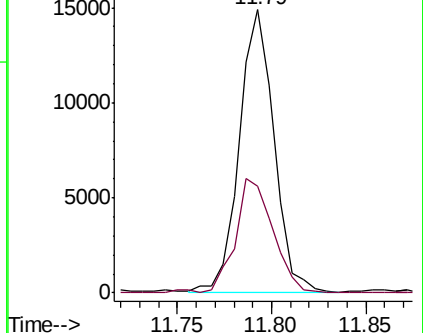
105 100

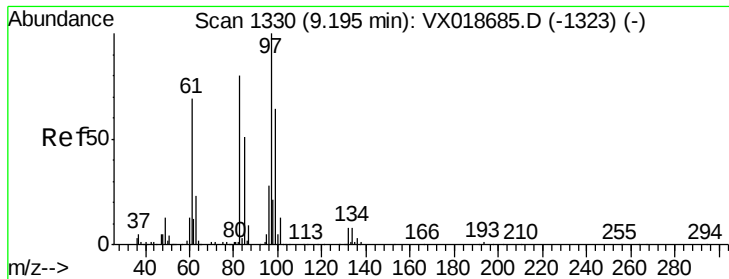
120 43.8 36.8 55.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#47

1,1,2-Trichloroethane

Concen: 0.150 ug/L

RT: 9.20 min Scan# 1331

Delta R.T. 0.01 min

Lab File: VX018717.D

Acq: 30 Sep 2020 23:15

Instrument :

MSVOA_X

ClientSampleId :

BG3Q1

Tgt Ion: 97 Resp: 1136

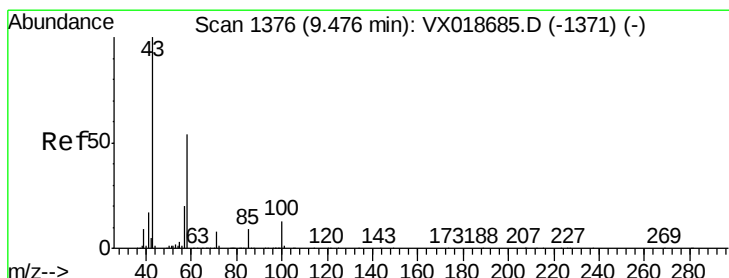
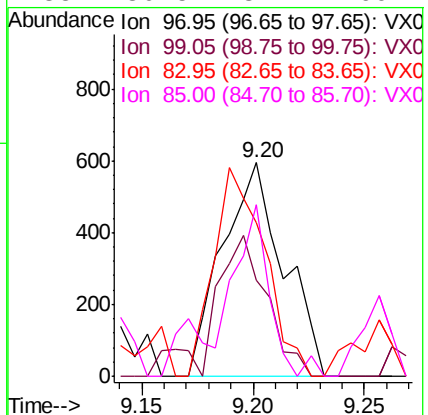
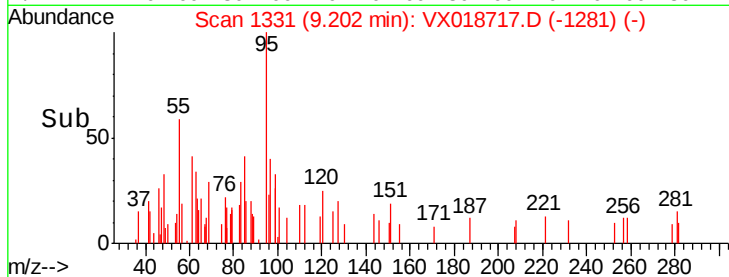
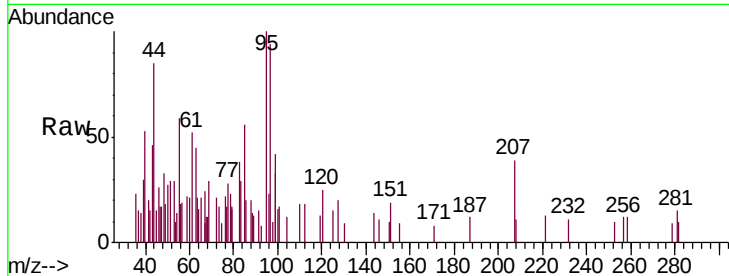
Ion Ratio Lower Upper

97 100

99 45.2 38.9 72.2

83 71.8 61.9 114.9

85 80.5 37.2 69.2#



#50

2-Hexanone

Concen: 2.055 ug/L

RT: 9.48 min Scan# 1376

Delta R.T. 0.00 min

Lab File: VX018717.D

Acq: 30 Sep 2020 23:15

Tgt Ion: 43 Resp: 8523

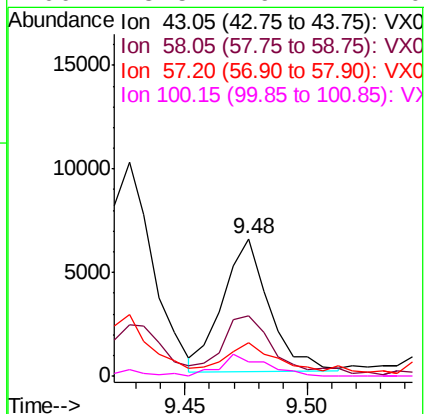
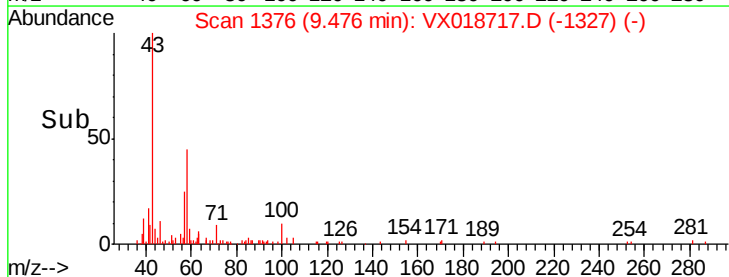
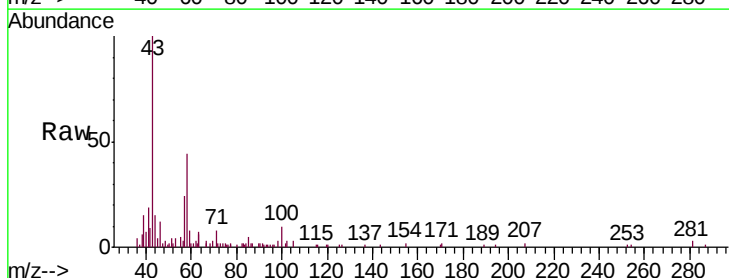
Ion Ratio Lower Upper

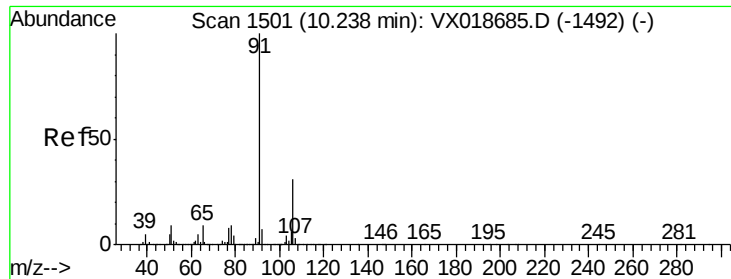
43 100

58 50.0 42.5 63.7

57 27.5 15.9 23.9#

100 15.5 9.4 14.0#





#54

Ethylbenzene

Concen: 0.349 ug/L

RT: 10.23 min Scan# 1500

Delta R.T. -0.01 min

Lab File: VX018717.D

Acq: 30 Sep 2020 23:15

Instrument :

MSVOA_X

ClientSampleId :

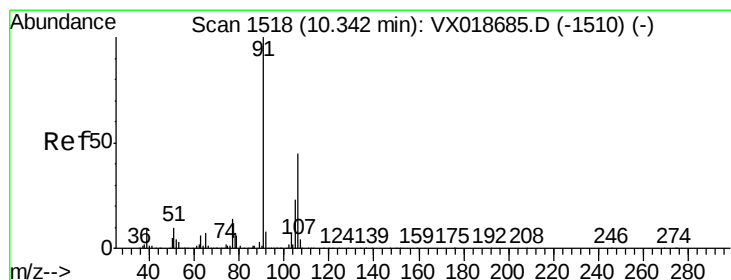
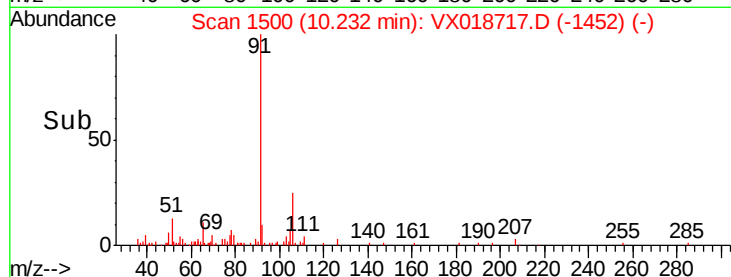
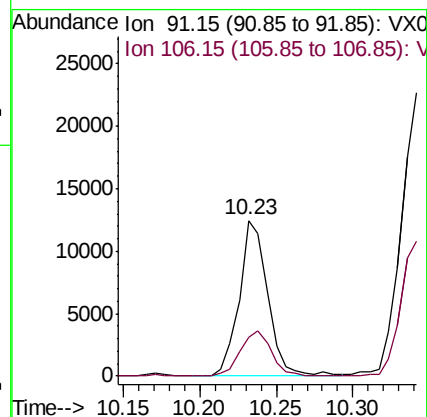
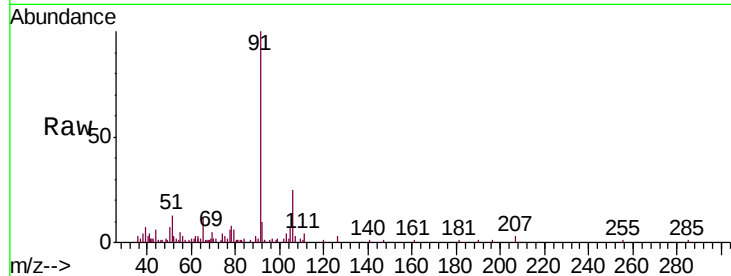
BG3Q1

Tgt Ion: 91 Resp: 16259

Ion Ratio Lower Upper

91 100

106 25.3 21.0 39.0



#55

m,p-xylene

Concen: 0.819 ug/L

RT: 10.34 min Scan# 1518

Delta R.T. 0.00 min

Lab File: VX018717.D

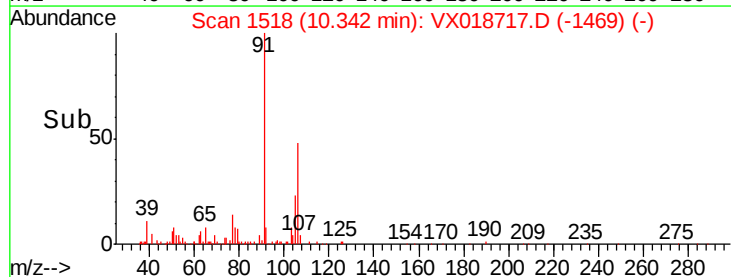
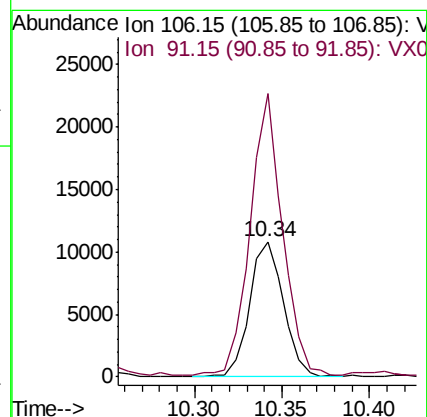
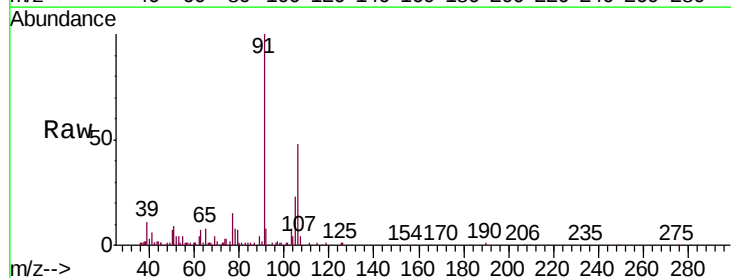
Acq: 30 Sep 2020 23:15

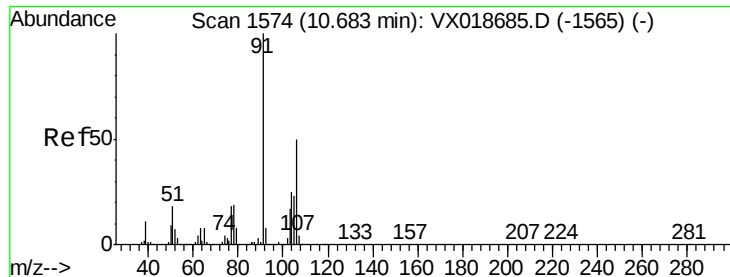
Tgt Ion: 106 Resp: 14593

Ion Ratio Lower Upper

106 100

91 209.8 140.3 260.6

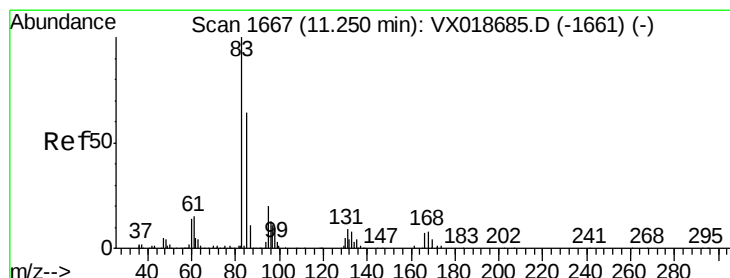
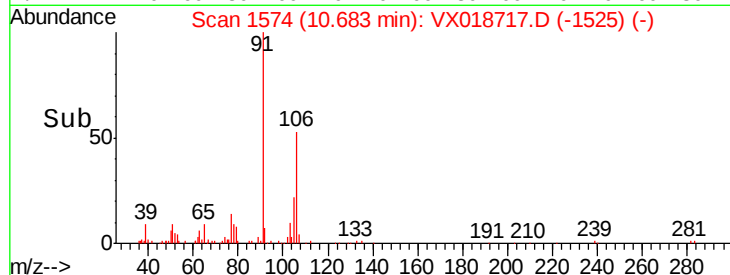
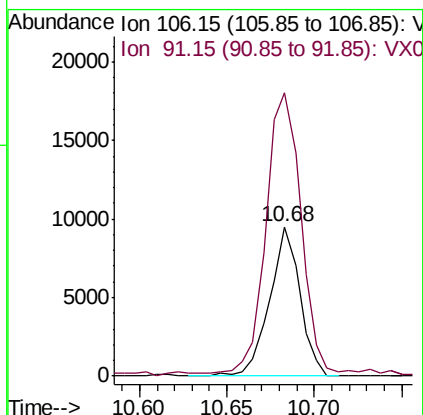
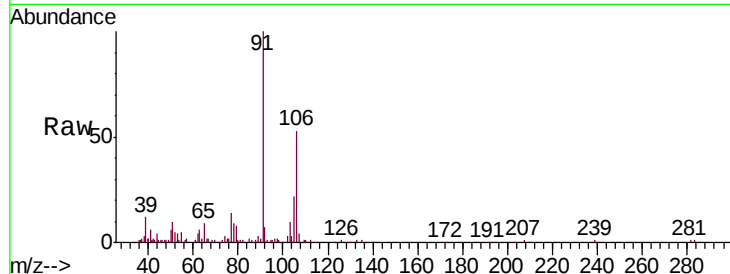




#56
o-xylene
Concen: 0.682 ug/L
RT: 10.68 min Scan# 1574
Delta R.T. 0.00 min
Lab File: VX018717.D
Acq: 30 Sep 2020 23:15

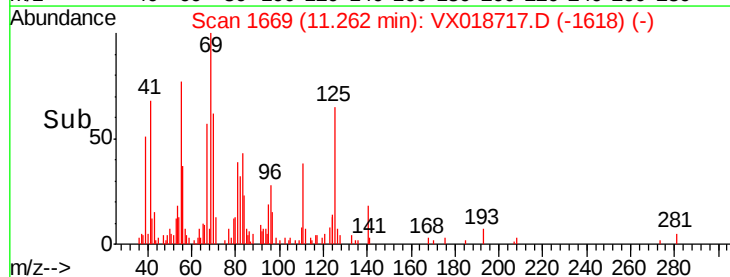
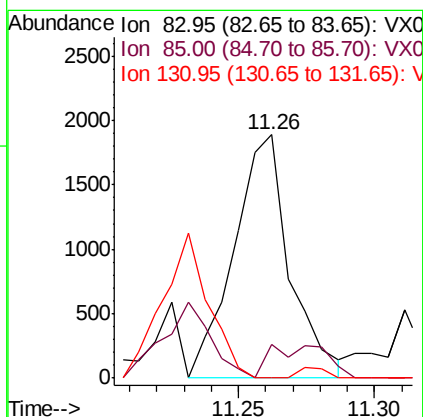
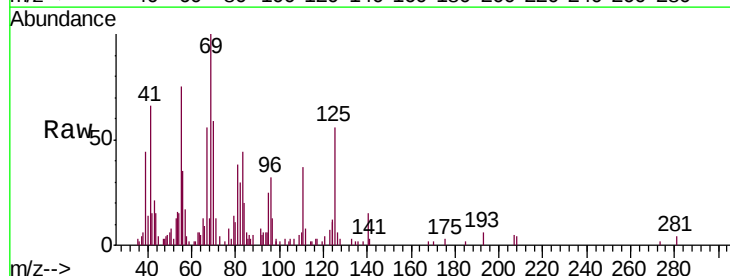
Instrument :
MSVOA_X
ClientSampleId :
BG3Q1

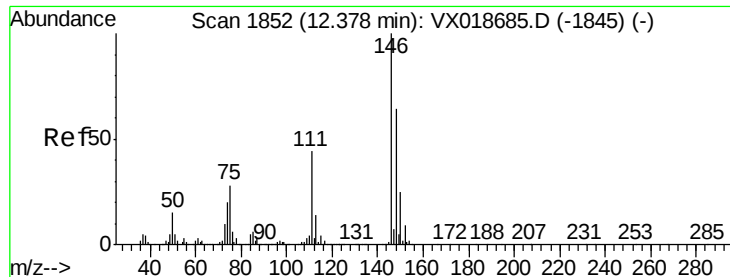
Tgt Ion:106 Resp: 11479
Ion Ratio Lower Upper
106 100
91 189.8 167.5 311.1



#60
1,1,2,2-Tetrachloroethane
Concen: 0.314 ug/L
RT: 11.26 min Scan# 1669
Delta R.T. 0.01 min
Lab File: VX018717.D
Acq: 30 Sep 2020 23:15

Tgt Ion: 83 Resp: 2693
Ion Ratio Lower Upper
83 100
85 13.9 48.5 90.1#
131 0.0 7.8 11.6#

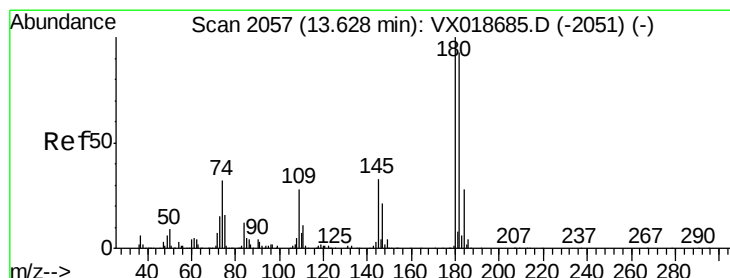
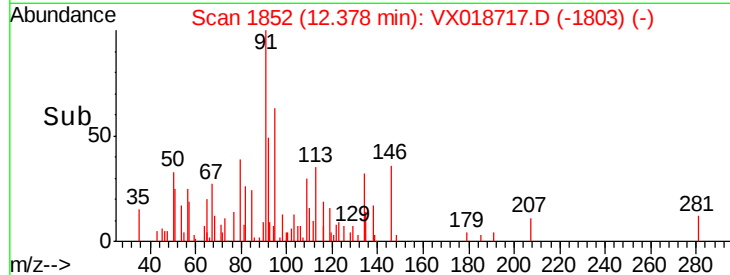
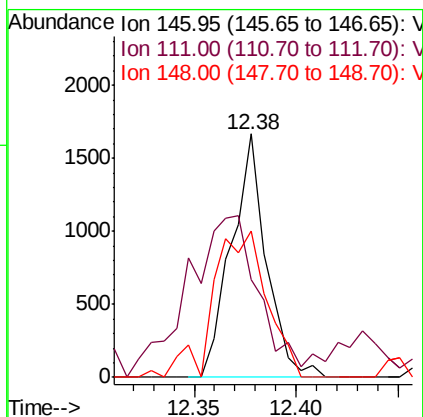
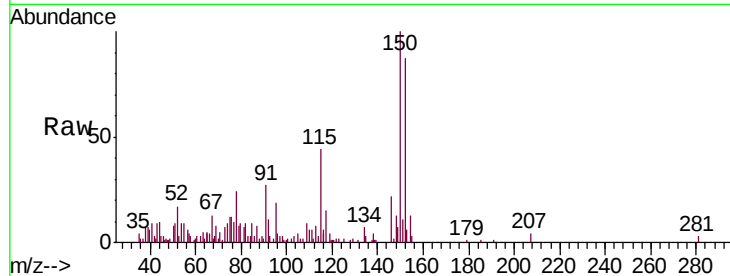




#66
 1,2-Dichlorobenzene
 Concen: 0.093 ug/L
 RT: 12.38 min Scan# 1852
 Delta R.T. 0.00 min
 Lab File: VX018717.D
 Acq: 30 Sep 2020 23:15

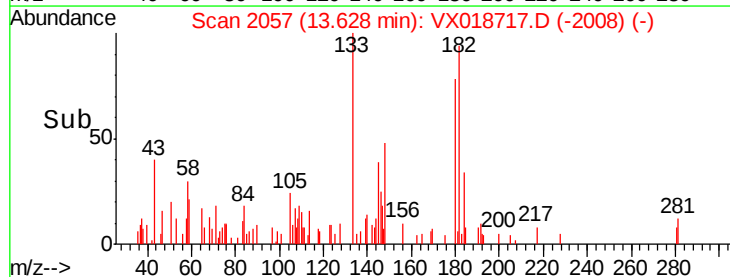
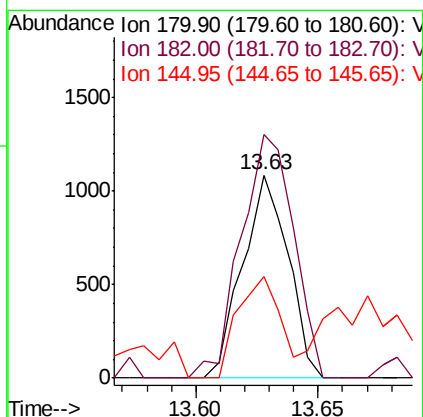
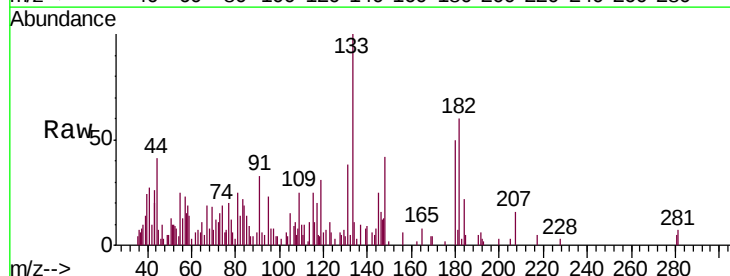
Instrument :
 MSVOA_X
 ClientSampleId :
 BG3Q1

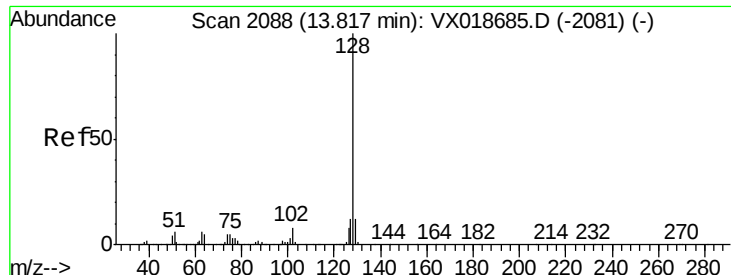
Tgt Ion:146 Resp: 1974
 Ion Ratio Lower Upper
 146 100
 111 40.0 33.6 50.4
 148 60.2 53.4 80.2



#69
 1,2,4-trichlorobenzene
 Concen: 0.101 ug/L
 RT: 13.63 min Scan# 2057
 Delta R.T. 0.00 min
 Lab File: VX018717.D
 Acq: 30 Sep 2020 23:15

Tgt Ion:180 Resp: 1412
 Ion Ratio Lower Upper
 180 100
 182 138.9 74.6 112.0#
 145 46.6 25.0 37.6#





#70

Naphthalene

Concen: 1.087 ug/L

RT: 13.82 min Scan# 2088

Delta R.T. 0.00 min

Lab File: VX018717.D

Acq: 30 Sep 2020 23:15

Instrument :

MSVOA_X

ClientSampleId :

BG3Q1

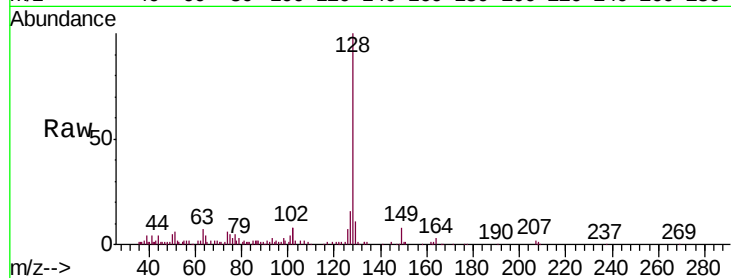
Tgt Ion:128 Resp: 25674

Ion Ratio Lower Upper

128 100

129 12.8 8.8 13.2

127 16.0 10.7 16.1



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

