

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040821\
 Data File : VL036765.D
 Acq On : 9 Apr 2021 1:04
 Operator : SY/AP
 Sample : M1981-03 4X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-2

Quant Time: Apr 09 08:42:42 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 09:42:40 2021
 QLast Update : Thu Mar 25 09:42:40 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1426672	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.17	114	3520133	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.08	117	2930764	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2551440	10.92	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	109.20%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.04	85	7135	0.031	ppbv 98
3) Chlorodifluoromethane	2.98	51	56313	0.211	ppbv # 68
4) Chloromethane	3.13	50	4841	0.051	ppbv # 72
5) Vinyl Chloride	3.25	62	310258	3.205	ppbv 97
7) Chloroethane	3.25	64	102679	3.087	ppbv # 43
9) Propene	3.00	41	491540	5.784	ppbv 93
10) Heptane	8.12	43	564972	2.610	ppbv 98
13) Ethanol	3.60	45	96342	9.521	ppbv 99
15) Acetone	3.84	43	4373696	31.148	ppbv 98
16) 1,3-Butadiene	3.29	39	409200	4.186	ppbv # 19
17) tert-Butyl alcohol	4.29	59	16167	0.132	ppbv # 72
18) 1,1-Dichloroethene	4.28	96	3571	0.053	ppbv # 1
19) Isopropyl Alcohol	4.25	45	3544192	45.884	ppbv # 92
20) Methylene Chloride	4.34	84	911024	13.857	ppbv 98
22) trans-1,2-Dichloroethene	4.88	96	27244	0.436	ppbv # 74
23) Vinyl Acetate	5.05	43	112571	0.469	ppbv # 1
25) Ethyl Acetate	5.68	43	819943	2.456	ppbv # 78
26) Hexane	5.68	57	1120522	7.233	ppbv # 47
27) Carbon Disulfide	4.54	76	235362	1.542	ppbv 97
30) Cyclohexane	7.12	84	324038	2.579	ppbv 85
31) cis-1,2-Dichloroethene	5.54	61	765101	5.106	ppbv 96
34) 2-Butanone	5.24	43	504795	2.938	ppbv 97
36) Benzene	6.88	78	580780	1.789	ppbv 96
38) Trichloroethene	7.83	130	1053257	8.336	ppbv 96
39) 1,2-Dichloropropane	7.17	63	920201	6.987	ppbv # 22
41) Tetrahydrofuran	6.31	42	95273	1.203	ppbv # 41
42) Bromodichloromethane	7.79	83	178982	0.689	ppbv # 24
43) Methyl Methacrylate	7.97	69	8504	0.078	ppbv # 1
44) 2,2,4-Trimethylpentane	7.86	57	5980530	10.467	ppbv # 72
47) 1,1,2-Trichloroethane	9.56	97	123468	0.926	ppbv # 60
50) 4-Methyl-2-Pentanone	8.75	43	198805	0.800	ppbv 93
51) 2-Hexanone	10.11	43	2130988	16.984	ppbv # 31
52) Tetrachloroethene	11.21	164	5024	0.042	ppbv # 79
53) Toluene	9.80	91	418340	1.210	ppbv 99
57) Chlorobenzene	12.15	112	122369	0.491	ppbv # 57
58) Ethyl Benzene	12.71	91	341461	0.801	ppbv 94
59) m/p-Xylene	12.97	91	1242305	3.340	ppbv 96
60) o-Xylene	13.69	91	1147120	3.190	ppbv 99
62) Isopropylbenzene	14.66	105	305256	0.630	ppbv 100
63) 1,1,2,2-Tetrachloroethane	13.66	83	80492	0.293	ppbv # 56
64) n-propylbenzene	15.56	120	59867	0.506	ppbv # 40

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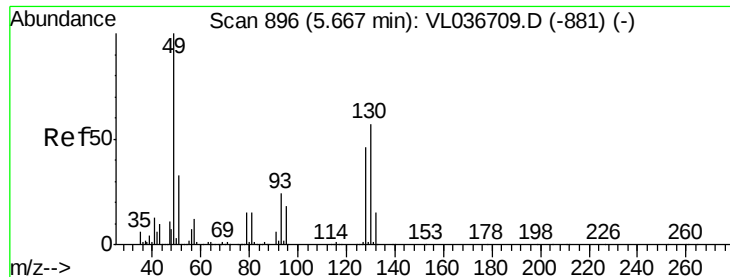
Instrument :
 MSVOA_L
 ClientSampleId :
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Quant Time: Apr 09 08:42:42 2021
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

65) tert-Butylbenzene	16.76	119	152043	0.362	ppbv #	67
66) Benzyl Chloride	16.98	91	2979	0.064	ppbv #	1
67) sec-Butylbenzene	17.30	105	105922	0.179	ppbv #	53
69) p-Isopropyltoluene	17.65	119	331970	0.717	ppbv #	91
70) n-Butylbenzene	18.53	91	48180	0.100	ppbv #	33
71) 2-Chlorotoluene	15.56	91	314747	0.867	ppbv #	87
72) 4-Ethyltoluene	15.84	105	394491	1.001	ppbv #	88
73) 1,3,5-Trimethylbenzene	16.00	105	691965	1.882	ppbv #	99
74) 1,2,4-Trimethylbenzene	16.76	105	1032662	2.624	ppbv #	69
76) 1,4-Dichlorobenzene	17.13	146	18796	0.085	ppbv #	1
79) Naphthalene	22.18	128	9919	0.043	ppbv #	77

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 893

Delta R.T. -0.01 min

Lab File: VL036765.D

Acq: 9 Apr 2021 1:04

Instrument :

MSVOA_L

ClientSampleId :

SG-2

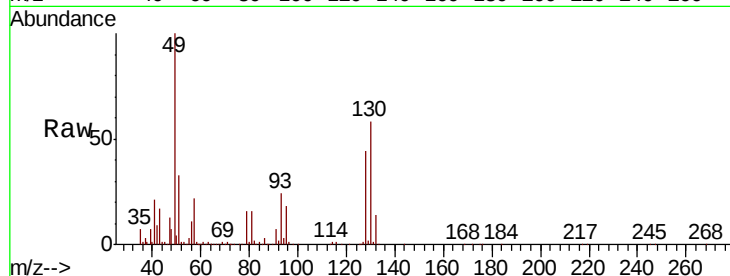
Tot Ion: 49 Resp: 1426672

Ion Ratio Lower Upper

49 100

128 46.5 23.5 70.6

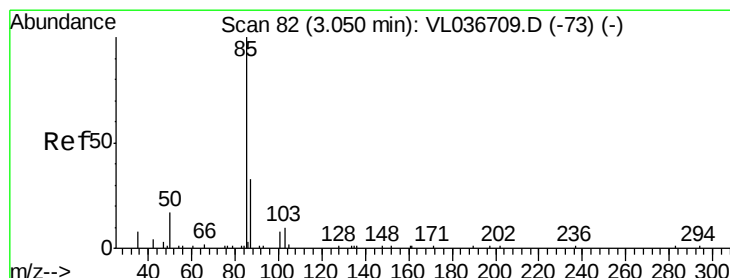
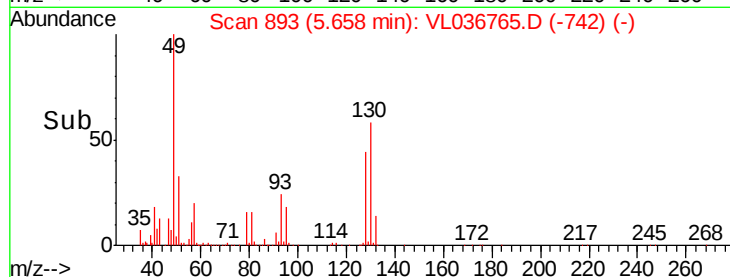
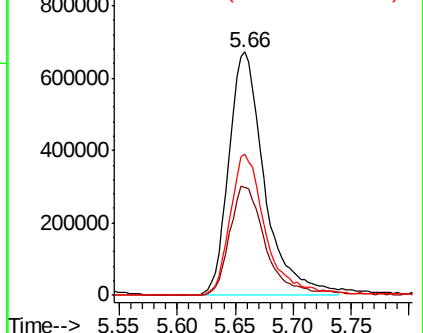
130 58.5 29.1 87.4



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.031 ppbv

RT: 3.04 min Scan# 78

Delta R.T. -0.01 min

Lab File: VL036765.D

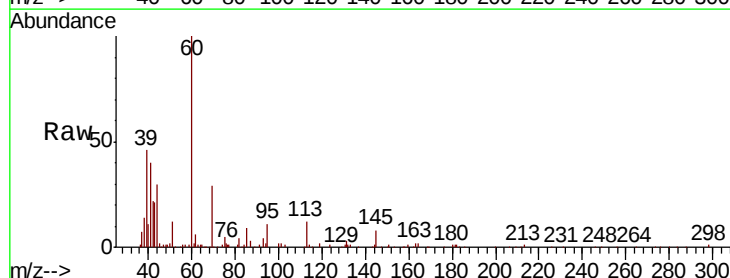
Acq: 9 Apr 2021 1:04

Tgt Ion: 85 Resp: 7135

Ion Ratio Lower Upper

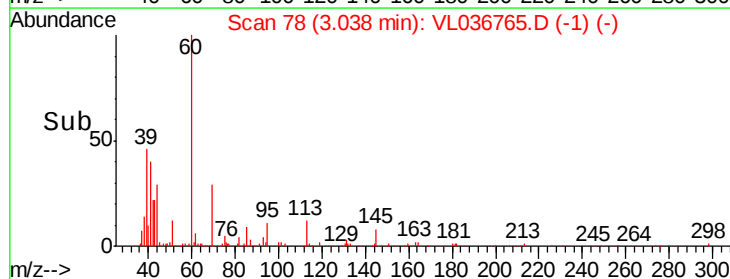
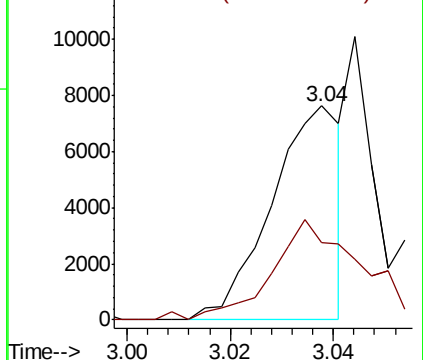
85 100

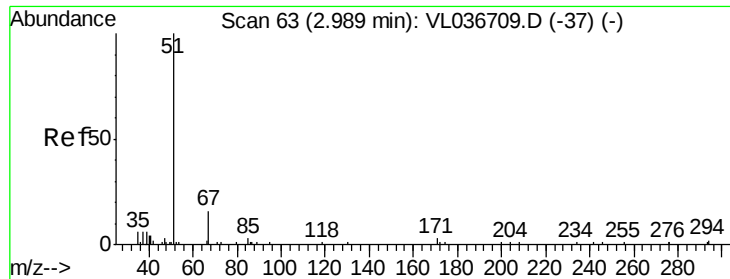
87 36.0 27.8 41.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.211 ppbv

RT: 2.98 min Scan# 60

Delta R.T. -0.01 min

Lab File: VL036765.D

Acq: 9 Apr 2021 1:04

Instrument :

MSVOA_L

ClientSampleId :

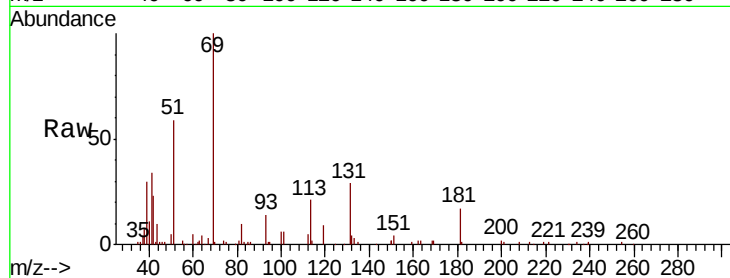
SG-2

Tot Ion: 51 Resp: 56313

Ion Ratio Lower Upper

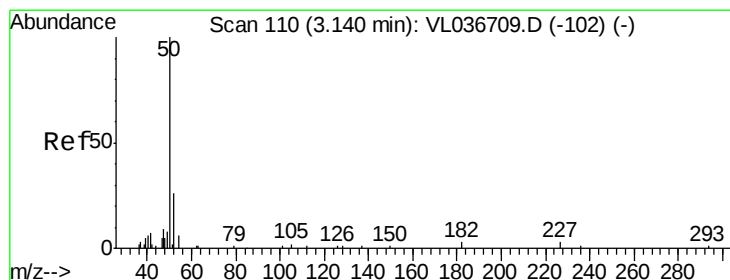
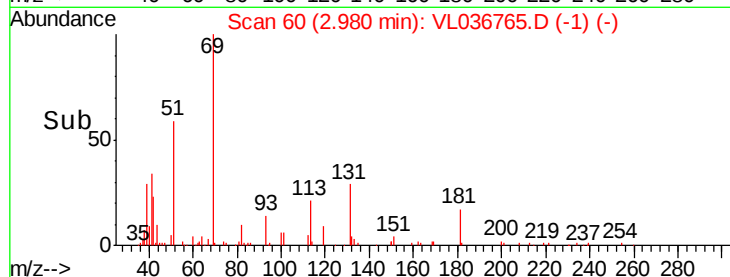
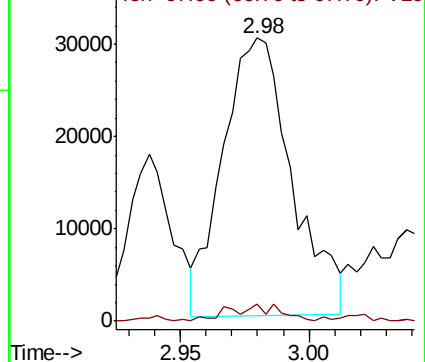
51 100

67 4.3 14.7 22.1#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.051 ppbv

RT: 3.13 min Scan# 108

Delta R.T. -0.01 min

Lab File: VL036765.D

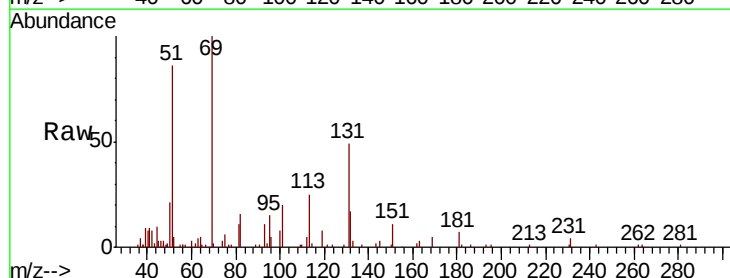
Acq: 9 Apr 2021 1:04

Tgt Ion: 50 Resp: 4841

Ion Ratio Lower Upper

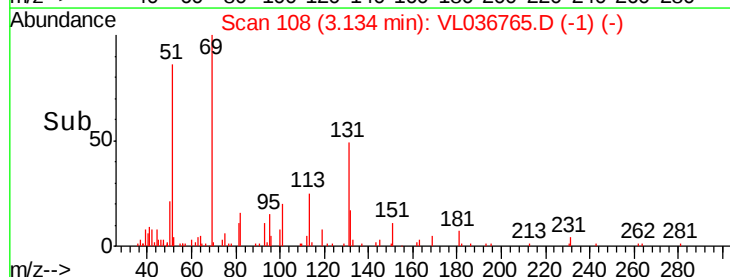
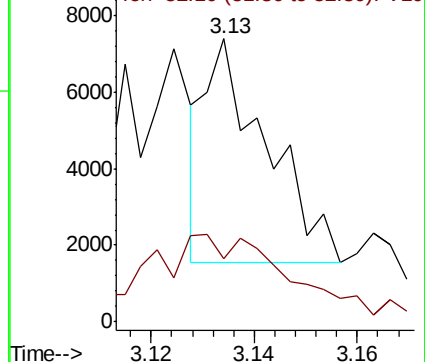
50 100

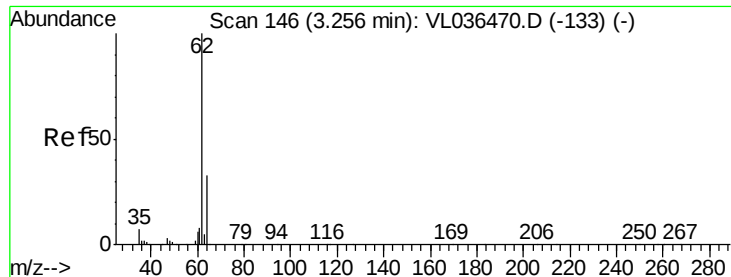
52 17.8 27.0 40.6#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 3.205 ppbv

RT: 3.25 min Scan# 143

Delta R.T. -0.01 min

Lab File: VL036765.D

Acq: 9 Apr 2021 1:04

Instrument :

MSVOA_L

ClientSampled :

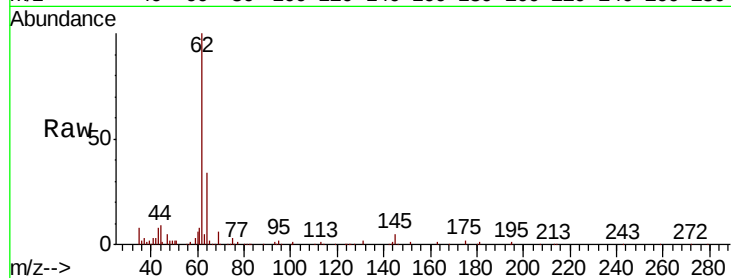
SG-2

Tot Ion: 62 Resp: 310258

Ion Ratio Lower Upper

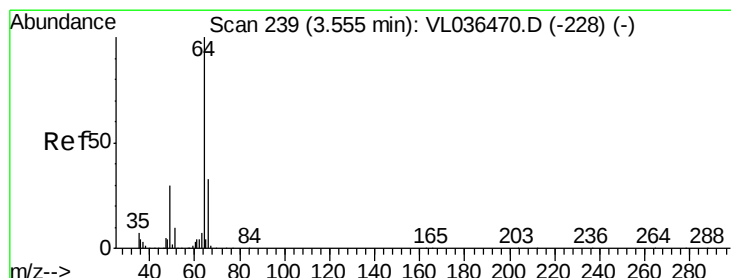
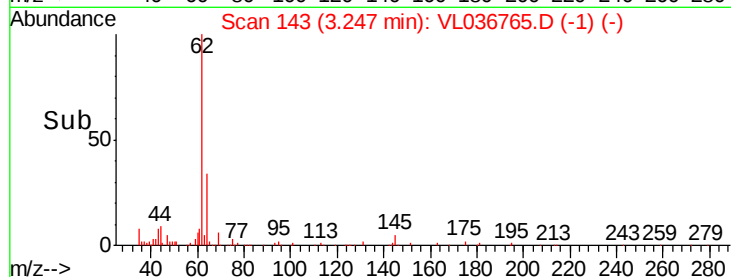
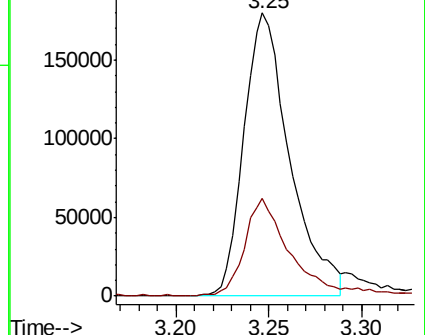
62 100

64 34.5 26.4 39.6



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#7

Chloroethane

Concen: 3.087 ppbv

RT: 3.25 min Scan# 143

Delta R.T. -0.31 min

Lab File: VL036765.D

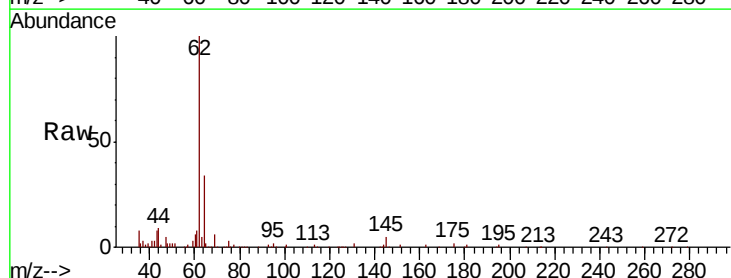
Acq: 9 Apr 2021 1:04

Tgt Ion: 64 Resp: 102679

Ion Ratio Lower Upper

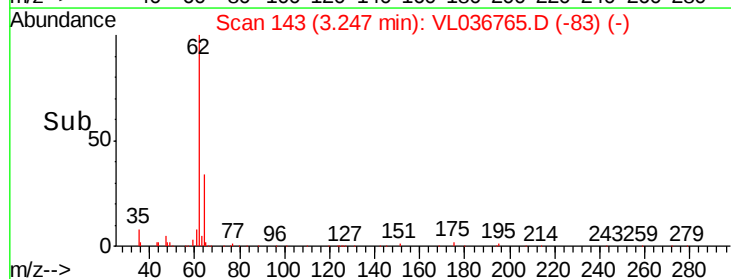
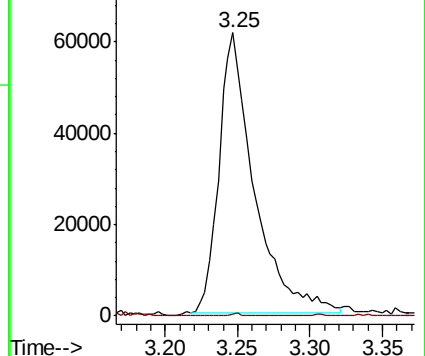
64 100

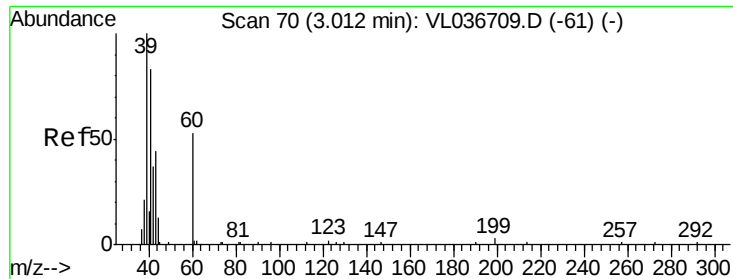
66 0.6 26.2 39.2#



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0





#9

Propene

Concen: 5.784 ppbv

RT: 3.00 min Scan# 67

Delta R.T. -0.01 min

Lab File: VL036765.D

Acq: 9 Apr 2021 1:04

Instrument :

MSVOA_L

ClientSampled :

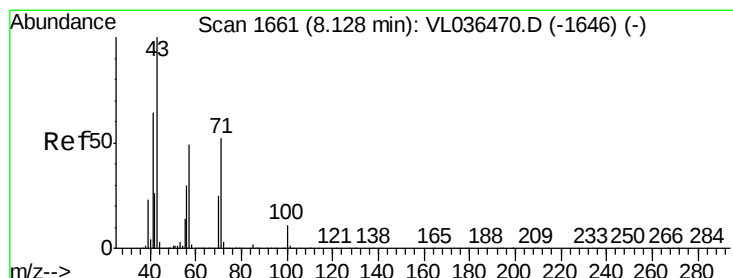
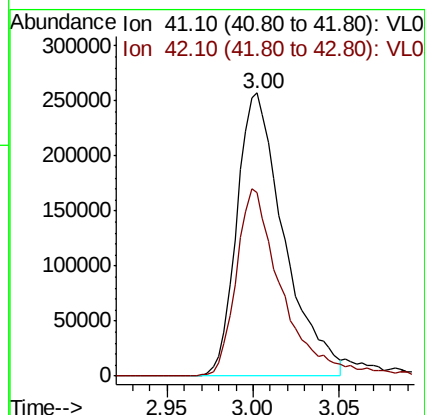
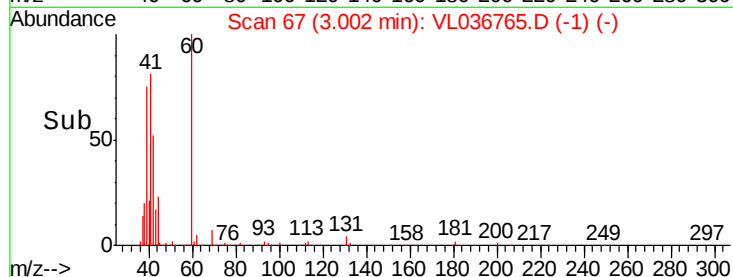
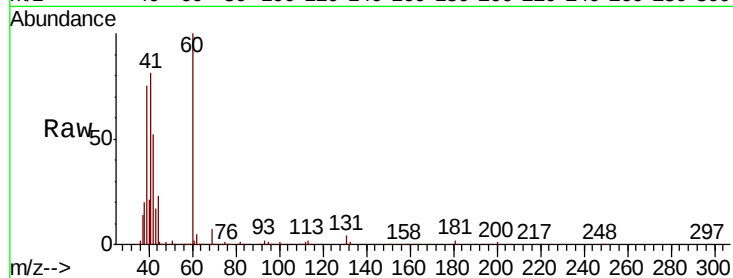
SG-2

Tot Ion: 41 Resp: 491540

Ion Ratio Lower Upper

41 100

42 65.2 57.0 85.4



#10

Heptane

Concen: 2.610 ppbv

RT: 8.12 min Scan# 1658

Delta R.T. -0.01 min

Lab File: VL036765.D

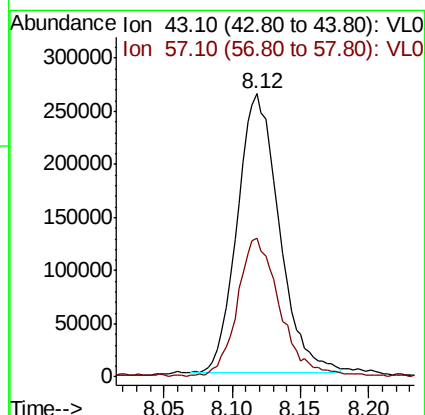
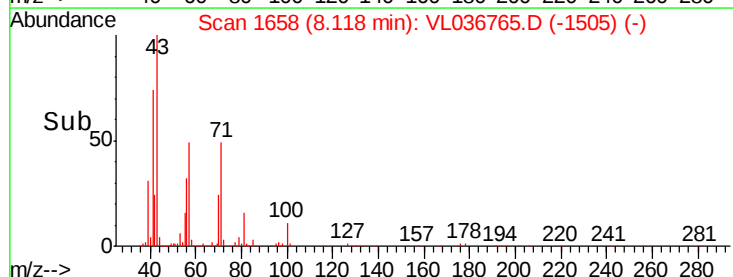
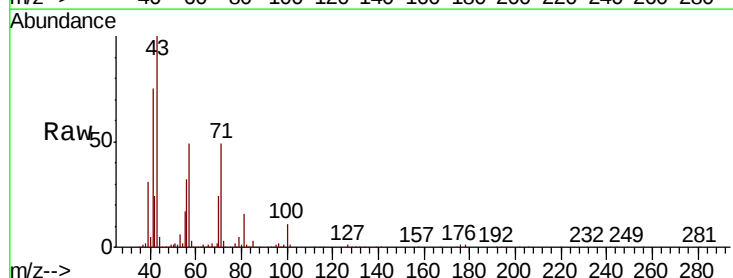
Acq: 9 Apr 2021 1:04

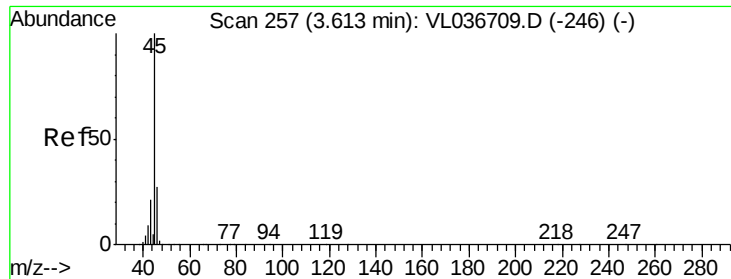
Tgt Ion: 43 Resp: 564972

Ion Ratio Lower Upper

43 100

57 50.2 39.0 58.6

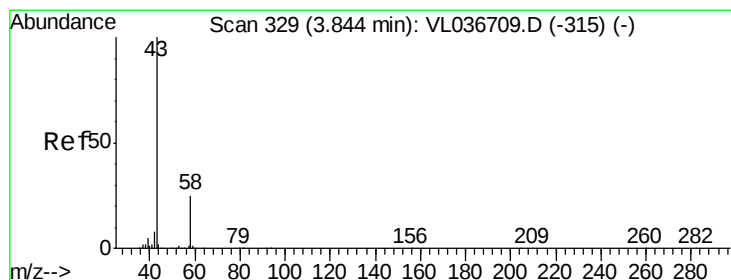
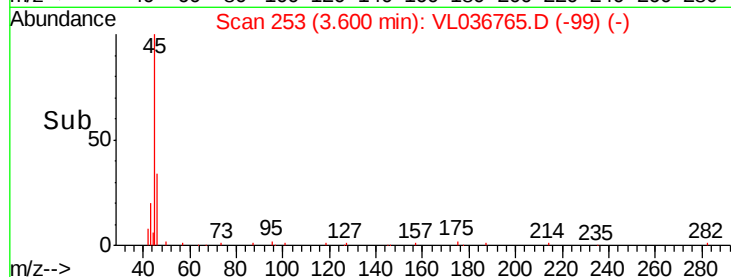
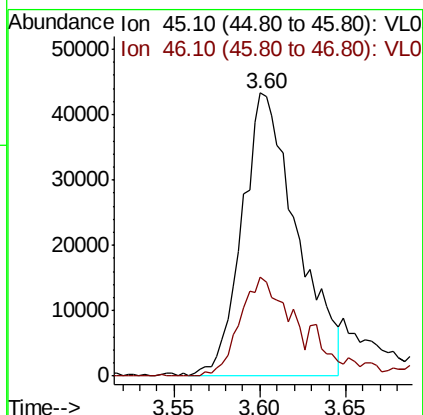
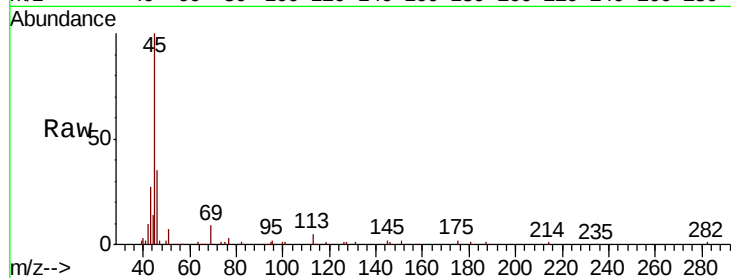




#13
Ethanol
Concen: 9.521 ppbv
RT: 3.60 min Scan# 253
Delta R.T. -0.01 min
Lab File: VL036765.D
Acq: 9 Apr 2021 1:04

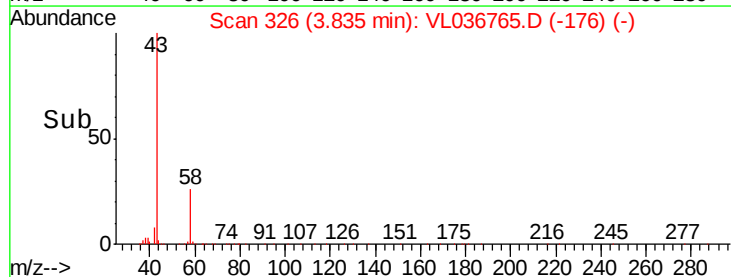
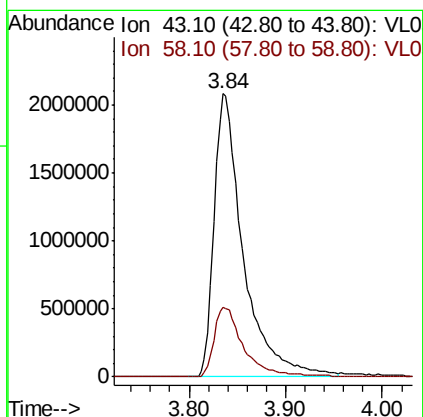
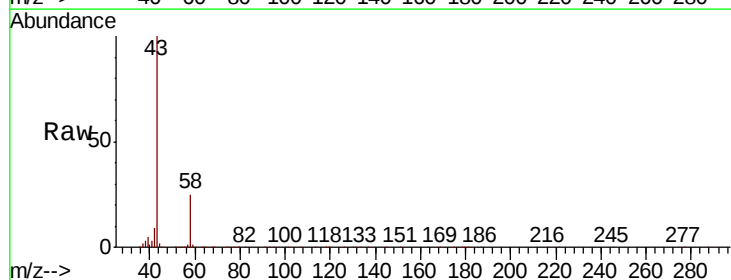
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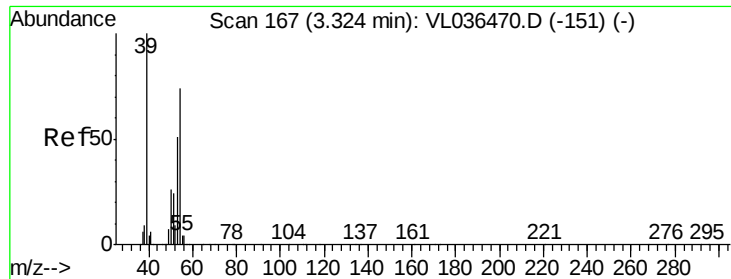
Tot Ion: 45 Resp: 96342
Ion Ratio Lower Upper
45 100
46 42.1 16.6 66.2



#15
Acetone
Concen: 31.148 ppbv
RT: 3.84 min Scan# 326
Delta R.T. -0.02 min
Lab File: VL036765.D
Acq: 9 Apr 2021 1:04

Tgt Ion: 43 Resp: 4373696
Ion Ratio Lower Upper
43 100
58 25.6 21.2 31.8





#16

1,3-Butadiene

Concen: 4.186 ppbv

RT: 3.29 min Scan# 158

Delta R.T. -0.03 min

Lab File: VL036765.D

Acq: 9 Apr 2021 1:04

Instrument :

MSVOA_L

ClientSampleID :

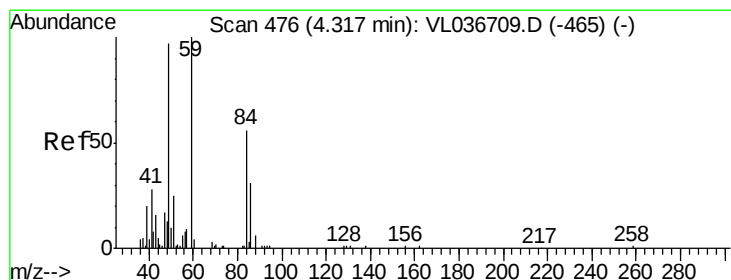
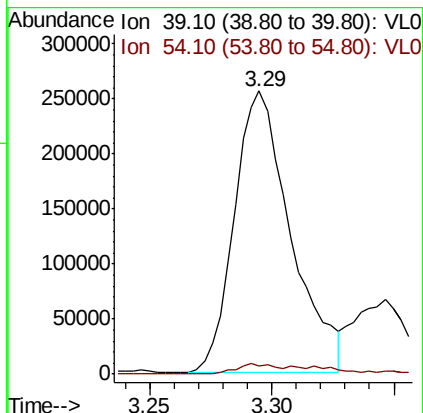
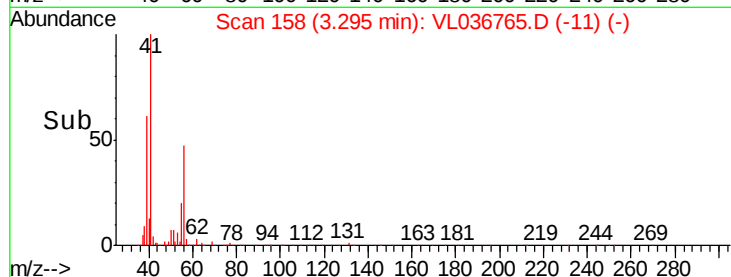
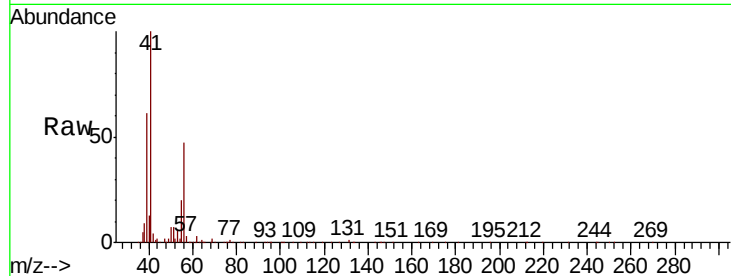
SG-2

Tot Ion: 39 Resp: 409200

Ion Ratio Lower Upper

39 100

54 5.6 58.8 88.2#



#17

tert-Butyl alcohol

Concen: 0.132 ppbv

RT: 4.29 min Scan# 468

Delta R.T. -0.00 min

Lab File: VL036765.D

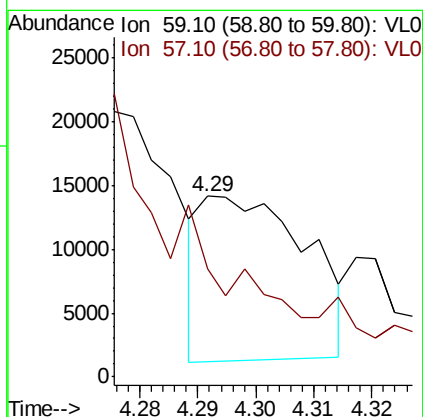
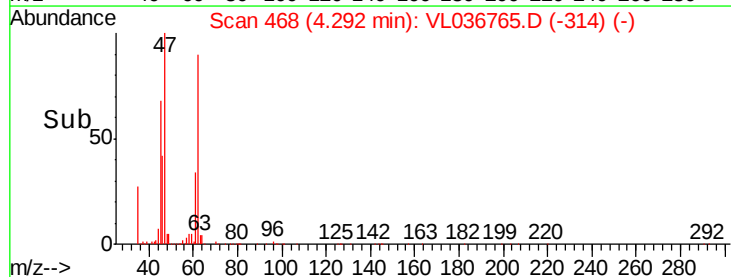
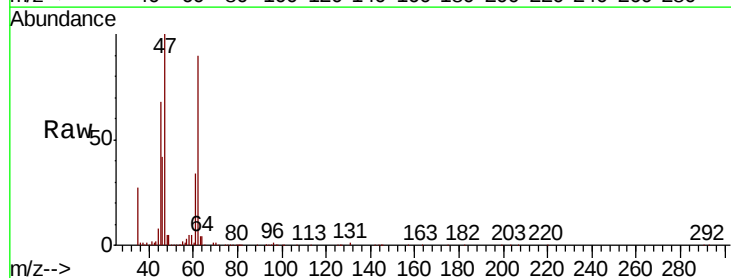
Acq: 9 Apr 2021 1:04

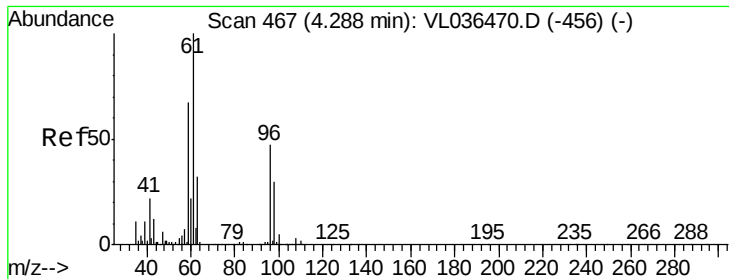
Tgt Ion: 59 Resp: 16167

Ion Ratio Lower Upper

59 100

57 0.0 8.6 12.8#

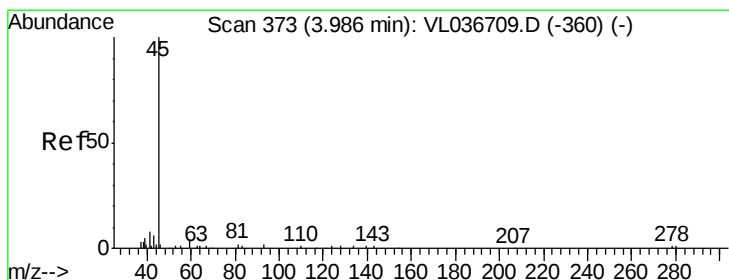
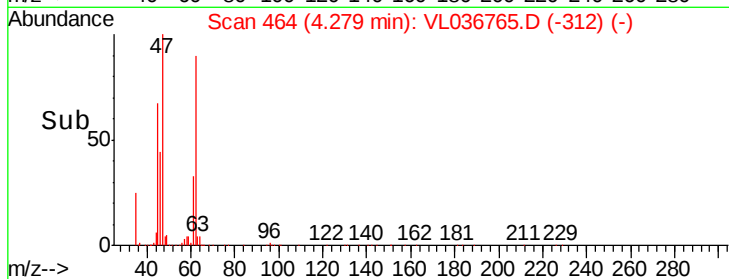
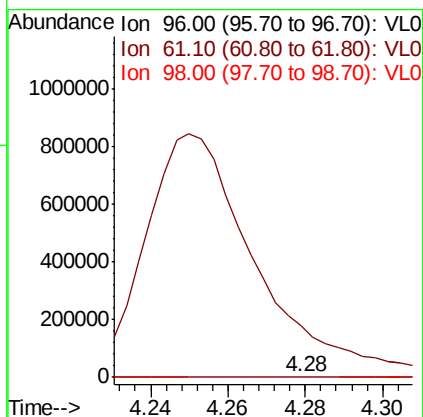
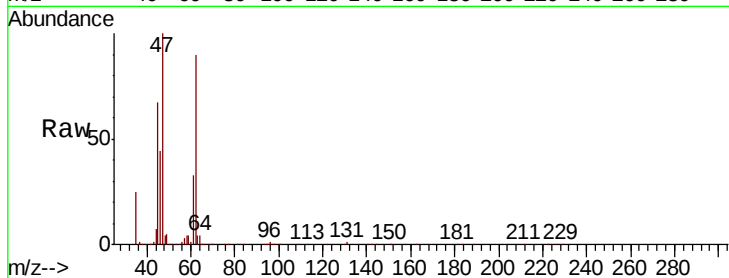




#18
 1,1-Dichloroethene
 Concen: 0.053 ppbv
 RT: 4.28 min Scan# 464
 Delta R.T. -0.01 min
 Lab File: VL036765.D
 Acq: 9 Apr 2021 1:04

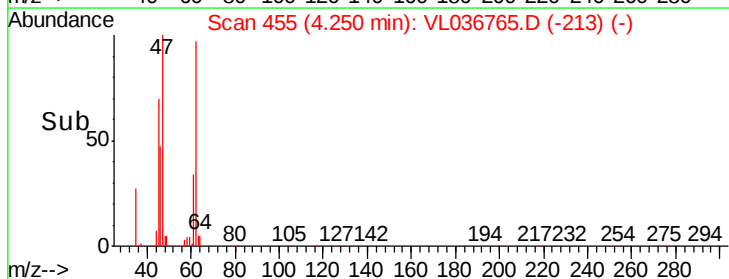
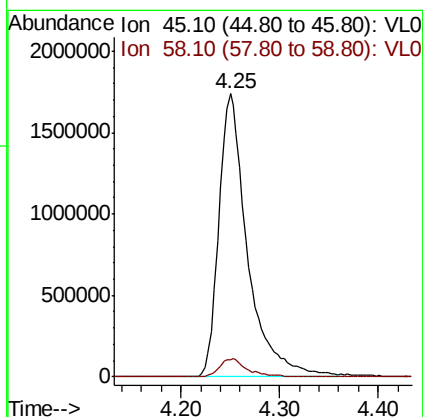
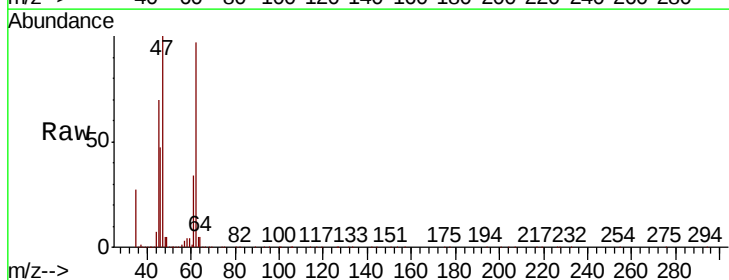
Instrument :
 MSVOA_L
 ClientSampled :
 SG-2

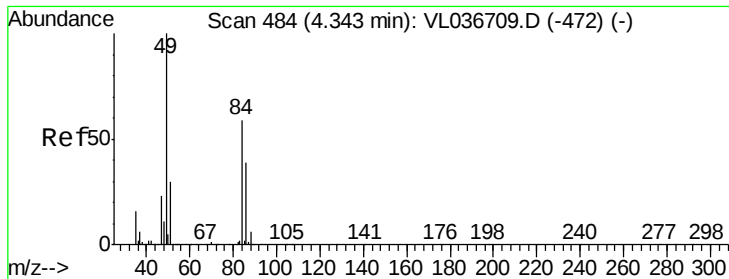
Tot Ion: 96 Resp: 3571
 Ion Ratio Lower Upper
 96 100
 61 1976.2 168.6 253.0#
 98 40.2 50.8 76.2#



#19
 Isopropyl Alcohol
 Concen: 45.884 ppbv
 RT: 4.25 min Scan# 455
 Delta R.T. 0.28 min
 Lab File: VL036765.D
 Acq: 9 Apr 2021 1:04

Tgt Ion: 45 Resp: 3544192
 Ion Ratio Lower Upper
 45 100
 58 6.3 2.9 4.3#

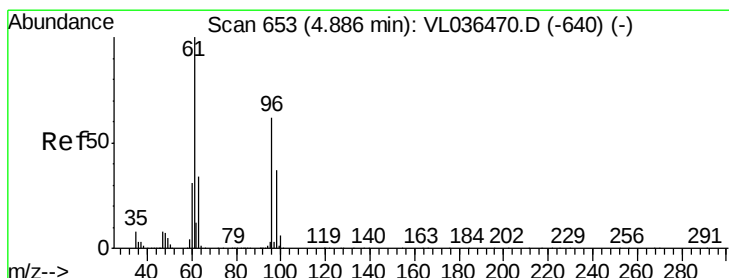
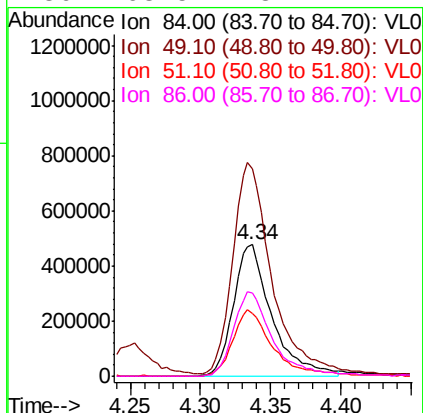
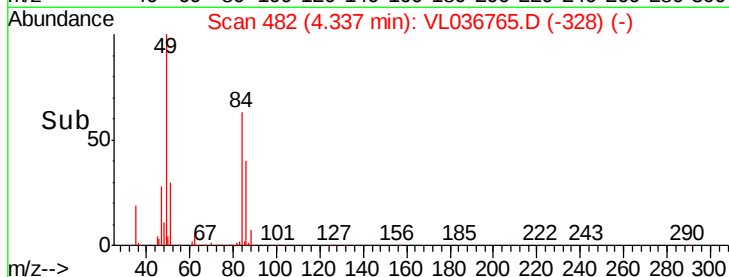
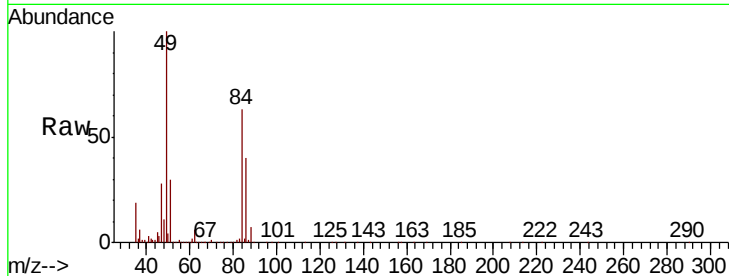




#20
Methvlene Chloride
Concen: 13.857 ppbv
RT: 4.34 min Scan# 482
Delta R.T. -0.01 min
Lab File: VL036765.D
Acq: 9 Apr 2021 1:04

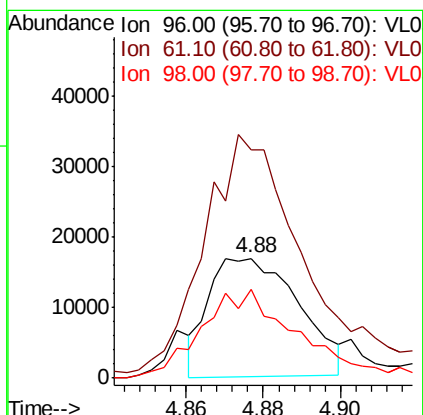
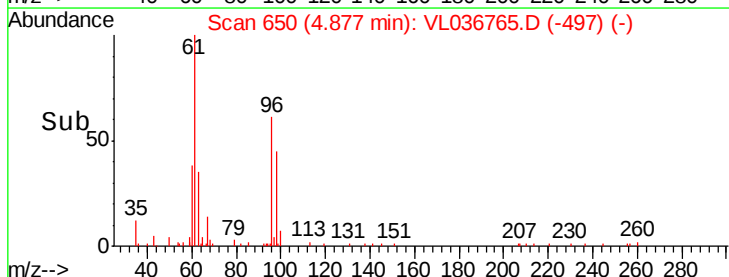
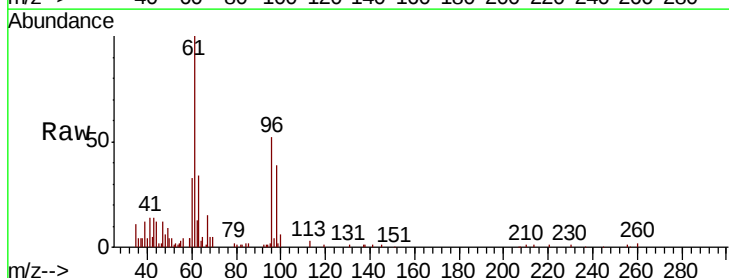
Instrument :
MSVOA_L
ClientSampleId :
SG-2

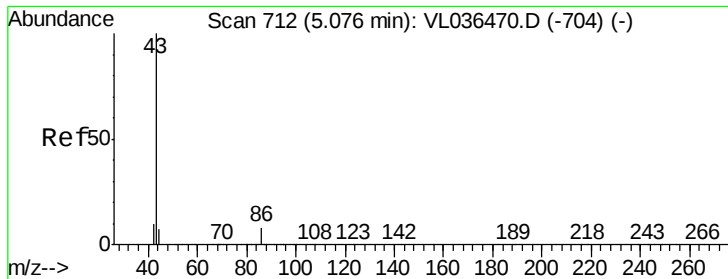
Tot Ion: 84 Resp: 911024
Ion Ratio Lower Upper
84 100
49 155.6 122.9 184.3
51 47.5 36.9 55.3
86 63.5 48.2 72.4



#22
trans-1,2-Dichloroethene
Concen: 0.436 ppbv
RT: 4.88 min Scan# 650
Delta R.T. -0.01 min
Lab File: VL036765.D
Acq: 9 Apr 2021 1:04

Tgt Ion: 96 Resp: 27244
Ion Ratio Lower Upper
96 100
61 195.6 129.4 194.0#
98 79.8 48.2 72.4#





#23

Vinyl Acetate

Concen: 0.469 ppbv

RT: 5.05 min Scan# 703

Delta R.T. -0.03 min

Lab File: VL036765.D

Acq: 9 Apr 2021 1:04

Instrument :

MSVOA_L

ClientSampleId :

SG-2

Tot Ion: 43 Resp: 112571

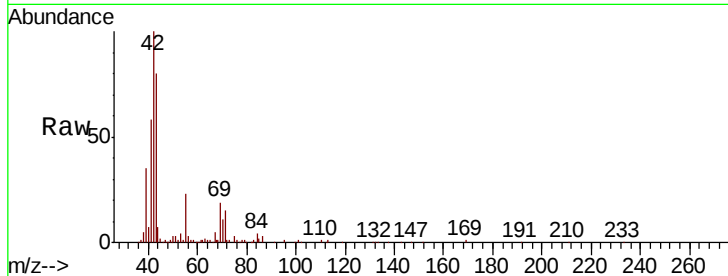
Ion Ratio Lower Upper

43 100

86 3.6 5.4 8.0#

42 125.1 8.5 12.7#

44 4.2 4.6 7.0#

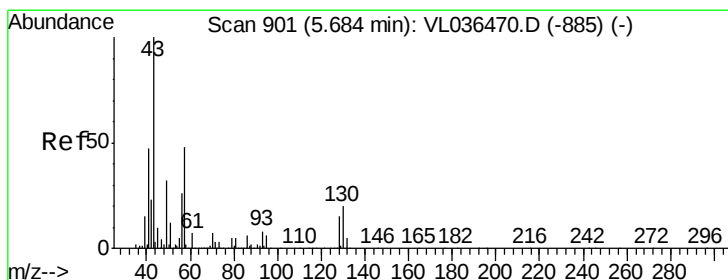
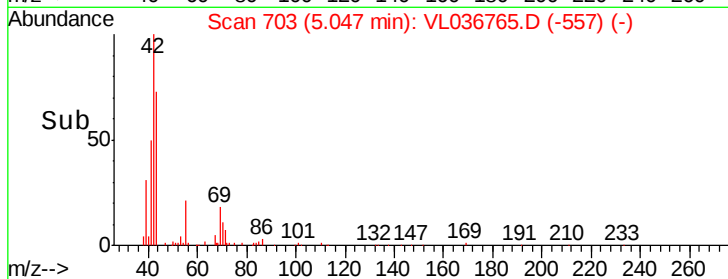
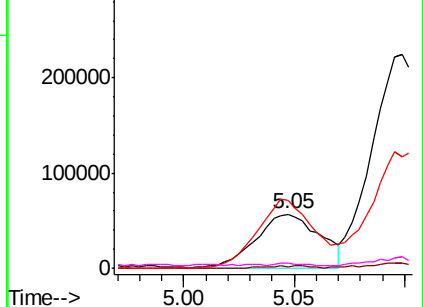


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#25

Ethyl Acetate

Concen: 2.456 ppbv

RT: 5.68 min Scan# 899

Delta R.T. -0.01 min

Lab File: VL036765.D

Acq: 9 Apr 2021 1:04

Tgt Ion: 43 Resp: 819943

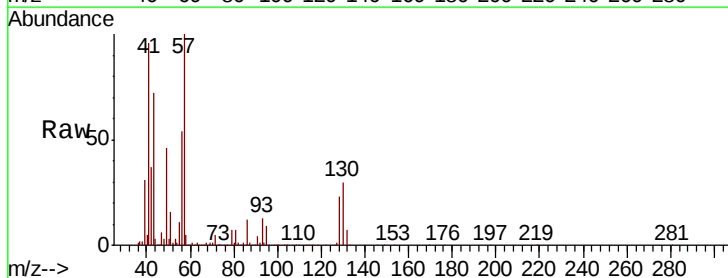
Ion Ratio Lower Upper

43 100

45 1.1 7.9 11.9#

61 0.0 7.4 11.2#

70 1.5 5.1 7.7#

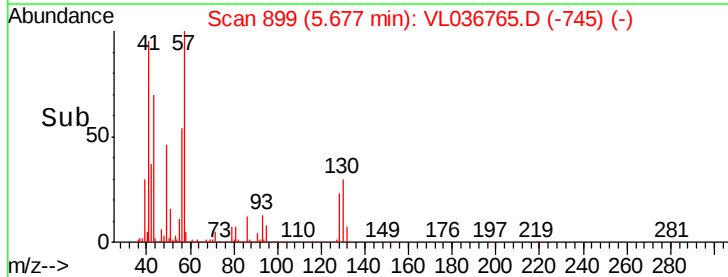
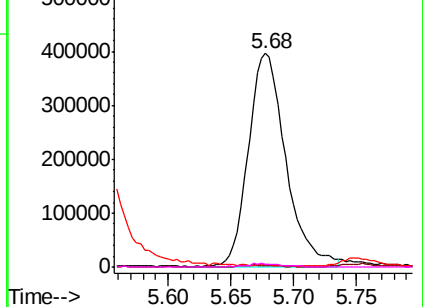


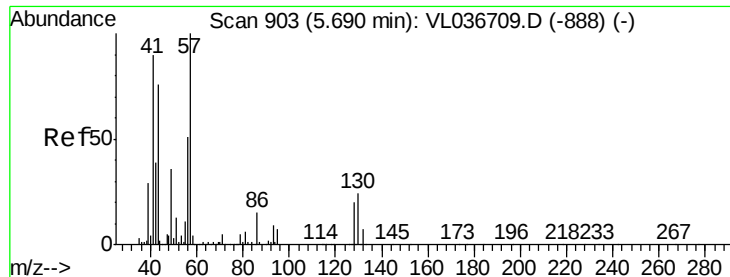
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



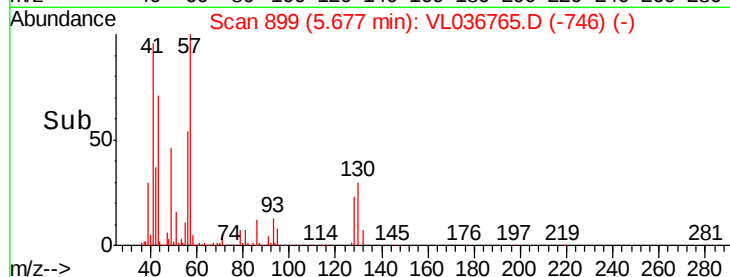
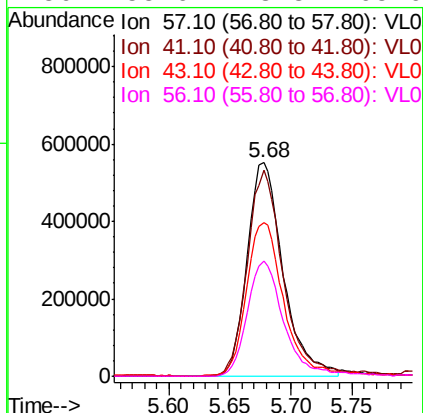
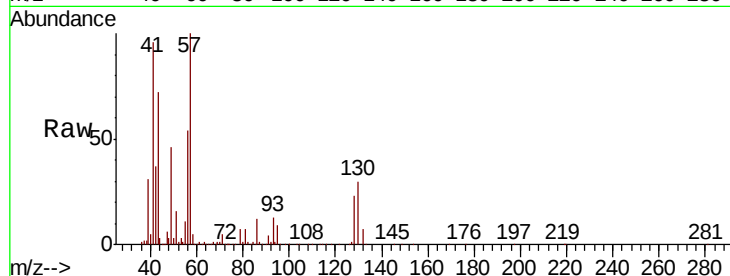


#26
Hexane
Concen: 7.233 ppbv
RT: 5.68 min Scan# 899
Delta R.T. -0.01 min
Lab File: VL036765.D
Acq: 9 Apr 2021 1:04

Instrument :
MSVOA_L
ClientSampleId :
SG-2

Tot Ion: 57 Resp: 1120522

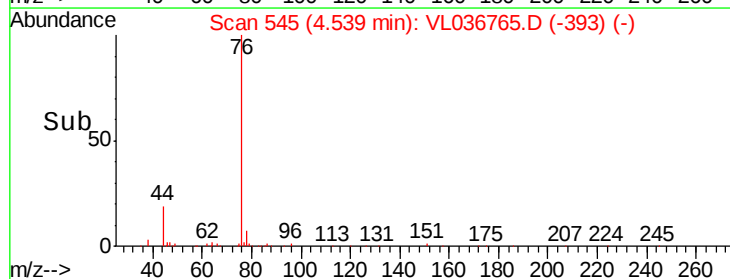
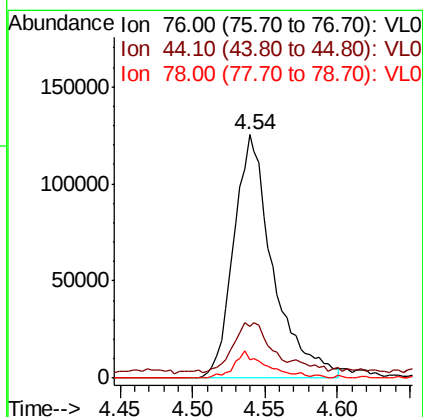
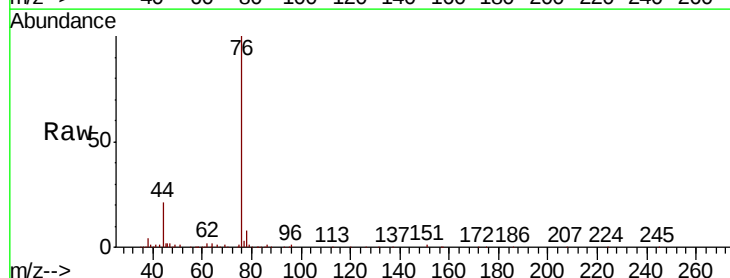
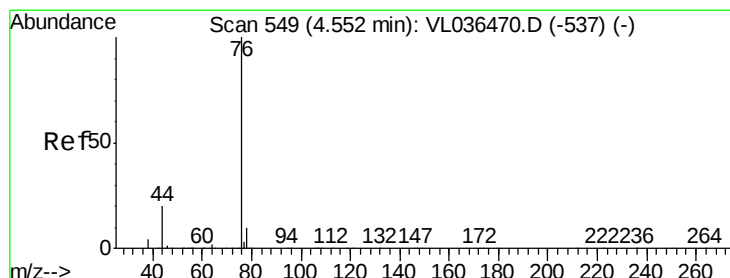
Ion	Ratio	Lower	Upper
57	100		
41	98.0	77.2	115.8
43	74.9	173.8	260.6#
56	55.6	43.8	65.6

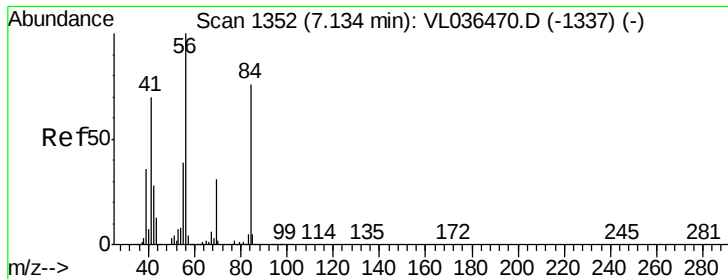


#27
Carbon Disulfide
Concen: 1.542 ppbv
RT: 4.54 min Scan# 545
Delta R.T. -0.01 min
Lab File: VL036765.D
Acq: 9 Apr 2021 1:04

Tgt Ion: 76 Resp: 235362

Ion	Ratio	Lower	Upper
76	100		
44	23.7	17.5	26.3
78	9.7	8.6	13.0

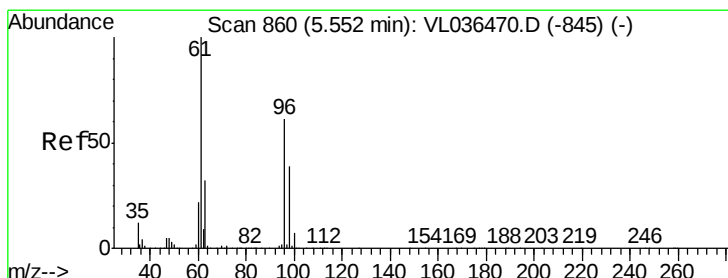
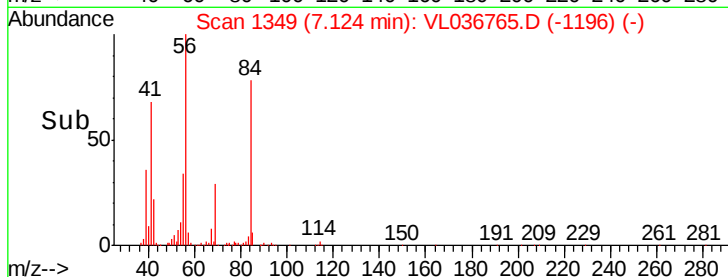
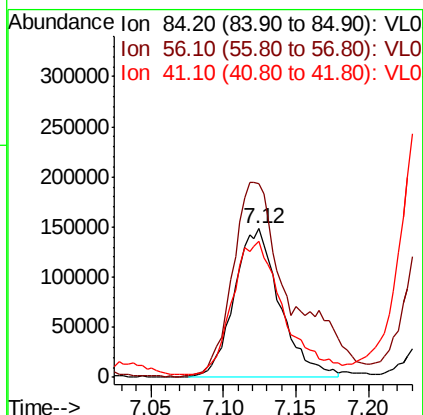
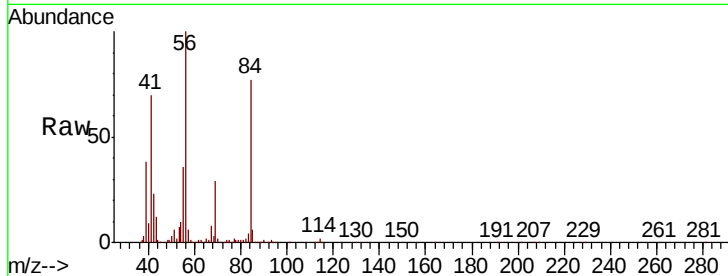




#30
Cvclohexane
Concen: 2.579 ppbv
RT: 7.12 min Scan# 1349
Delta R.T. -0.01 min
Lab File: VL036765.D
Acq: 9 Apr 2021 1:04

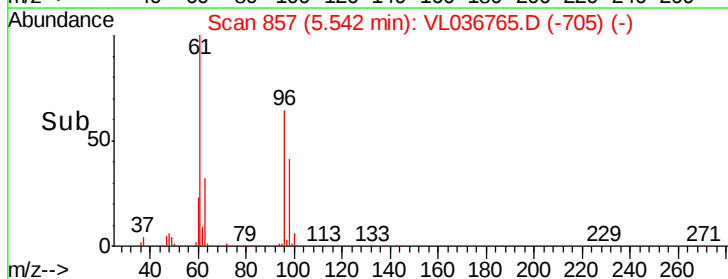
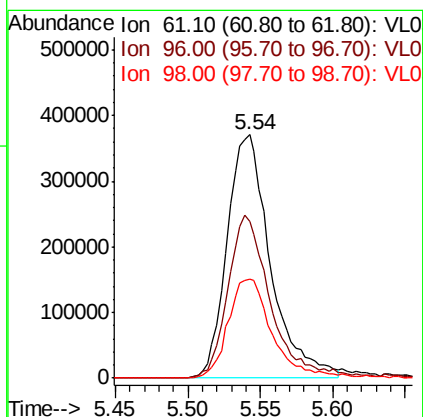
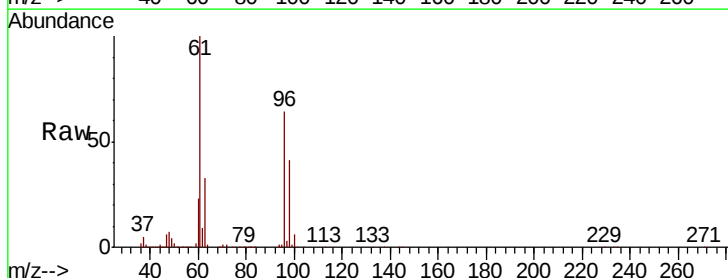
Instrument :
MSVOA_L
ClientSampleId :
SG-2

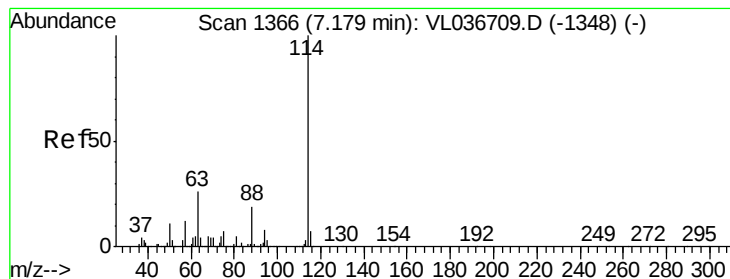
Tot Ion: 84 Resp: 324038
Ion Ratio Lower Upper
84 100
56 166.3 114.6 171.8
41 102.0 75.3 112.9



#31
cis-1,2-Dichloroethene
Concen: 5.106 ppbv
RT: 5.54 min Scan# 857
Delta R.T. -0.01 min
Lab File: VL036765.D
Acq: 9 Apr 2021 1:04

Tgt Ion: 61 Resp: 765101
Ion Ratio Lower Upper
61 100
96 64.1 48.7 73.1
98 40.8 31.4 47.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 min Scan# 1362

Delta R.T. -0.01 min

Lab File: VL036765.D

Acq: 9 Apr 2021 1:04

Instrument :

MSVOA_L

ClientSampleId :

SG-2

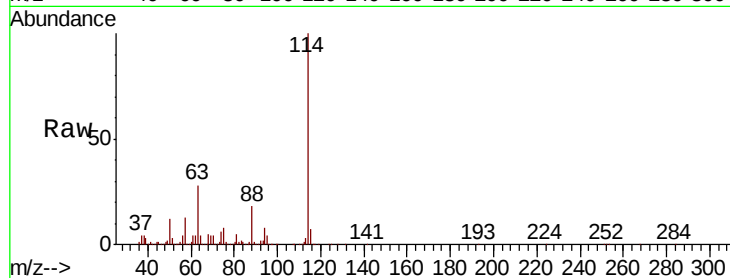
Tot Ion:114 Resp: 3520133

Ion Ratio Lower Upper

114 100

63 27.0 22.4 33.6

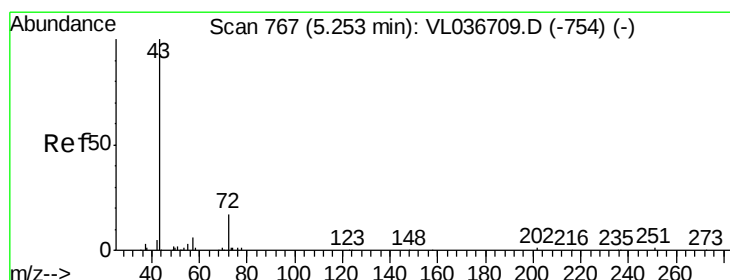
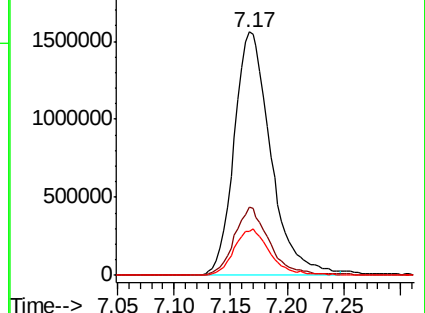
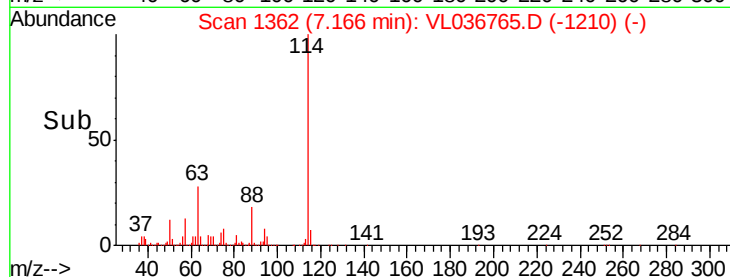
88 19.0 15.4 23.0



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 2.938 ppbv

RT: 5.24 min Scan# 763

Delta R.T. -0.01 min

Lab File: VL036765.D

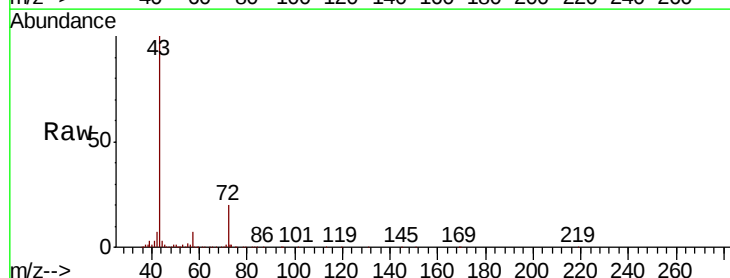
Acq: 9 Apr 2021 1:04

Tgt Ion: 43 Resp: 504795

Ion Ratio Lower Upper

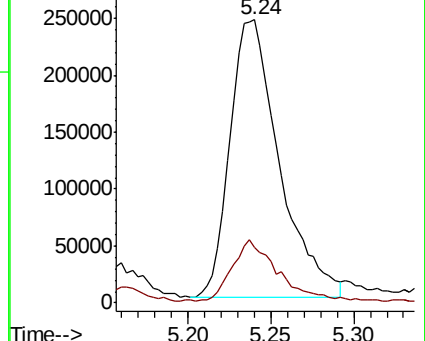
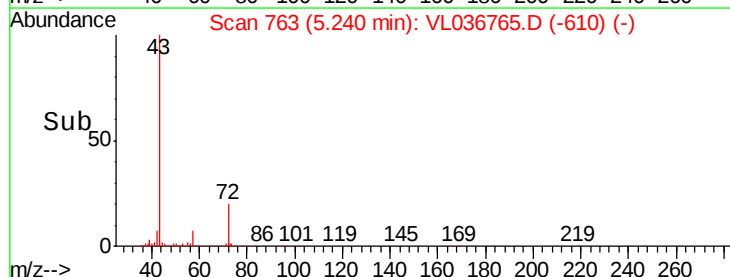
43 100

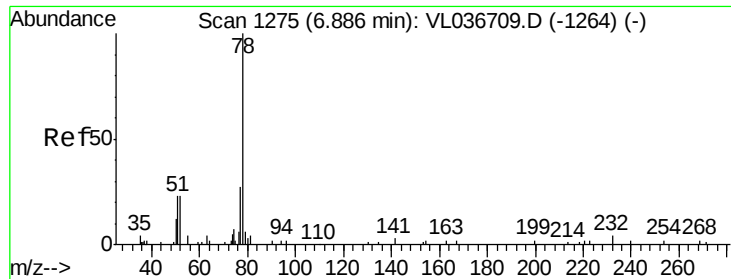
72 22.5 17.0 25.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#36

Benzene

Concen: 1.789 ppbv

RT: 6.88 min Scan# 1274

Delta R.T. -0.01 min

Lab File: VL036765.D

Acq: 9 Apr 2021 1:04

Instrument :

MSVOA_L

ClientSampleId :

SG-2

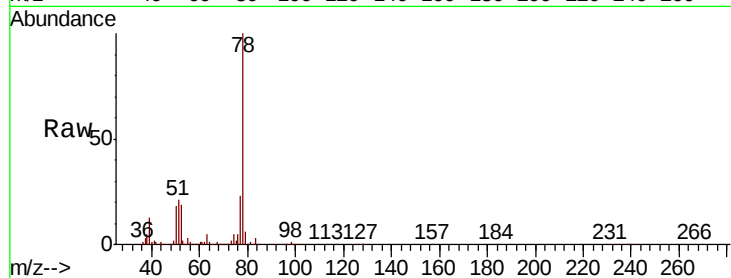
Tot Ion: 78 Resp: 580780

Ion Ratio Lower Upper

78 100

77 22.5 18.0 27.0

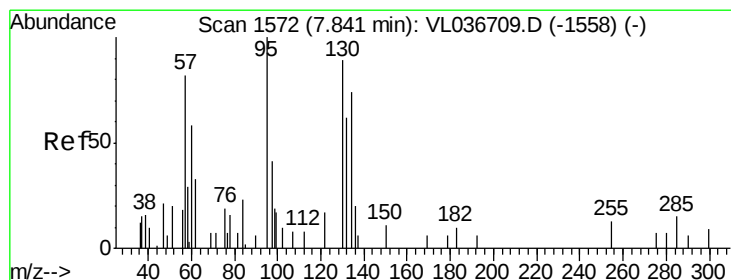
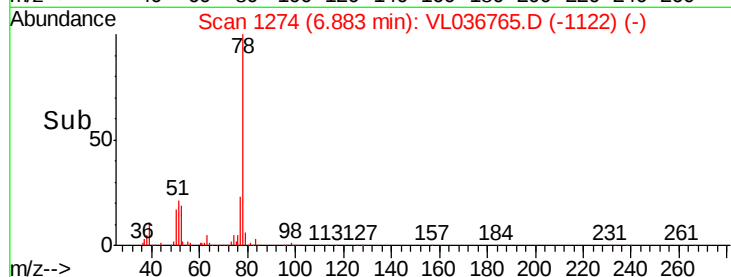
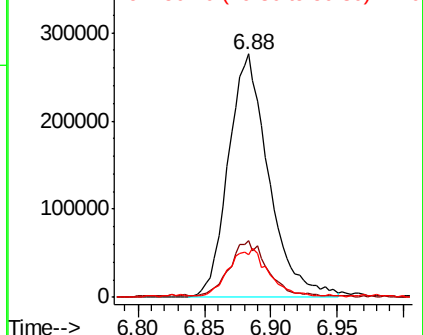
50 17.0 16.5 24.7



Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0



#38

Trichloroethene

Concen: 8.336 ppbv

RT: 7.83 min Scan# 1568

Delta R.T. -0.01 min

Lab File: VL036765.D

Acq: 9 Apr 2021 1:04

Tgt Ion: 130 Resp: 1053257

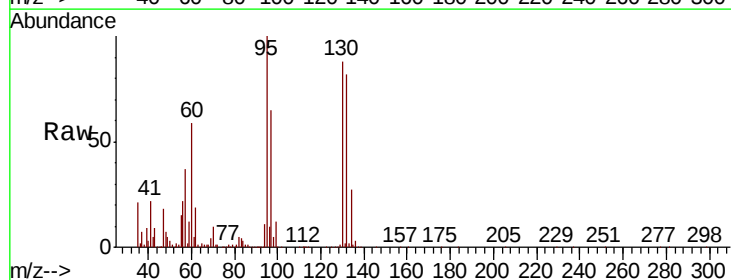
Ion Ratio Lower Upper

130 100

95 113.4 95.7 143.5

132 92.9 76.2 114.4

97 74.0 61.8 92.6

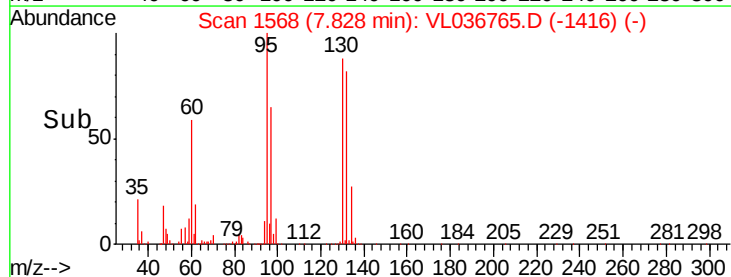
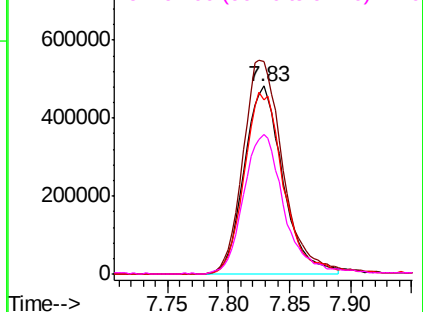


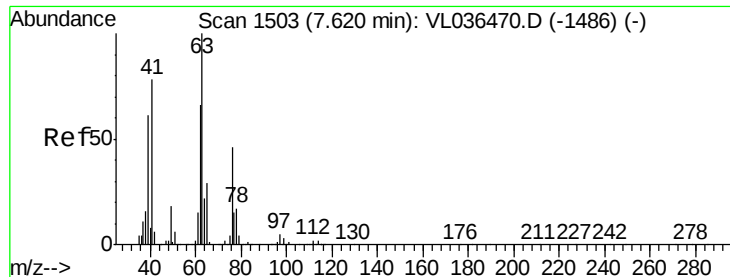
Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0

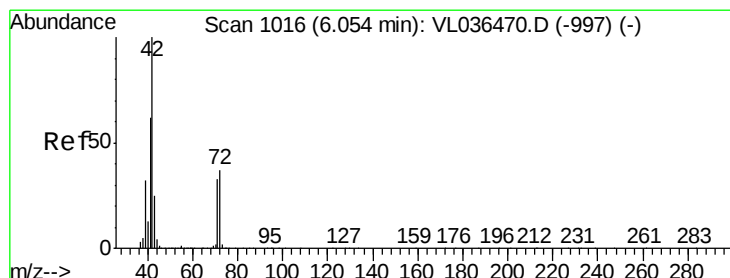
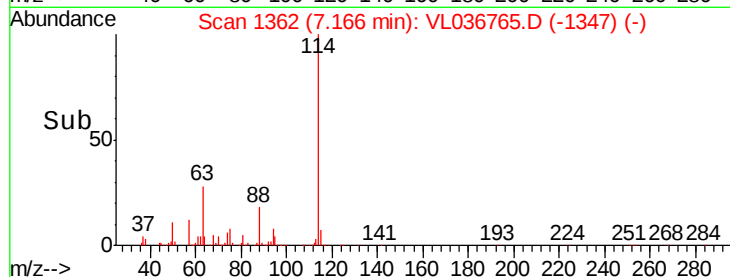
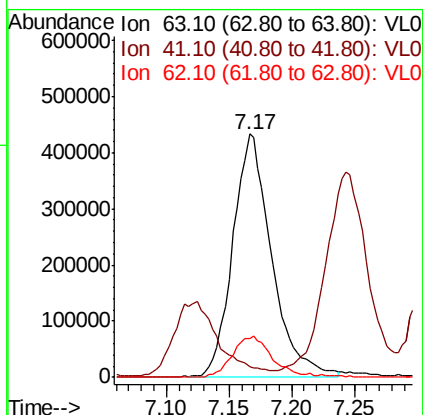
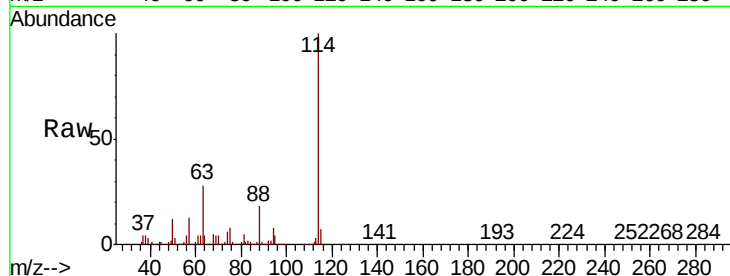




#39
 1,2-Dichloropropane
 Concen: 6.987 ppbv
 RT: 7.17 min Scan# 1362
 Delta R.T. -0.45 min
 Lab File: VL036765.D
 Acq: 9 Apr 2021 1:04

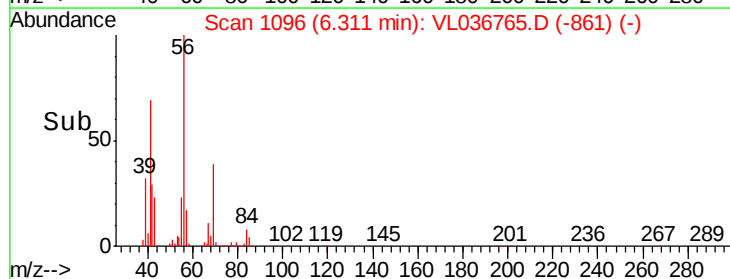
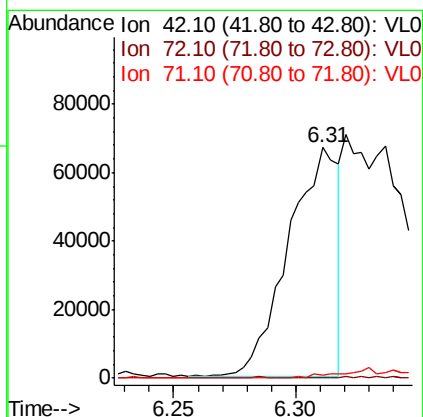
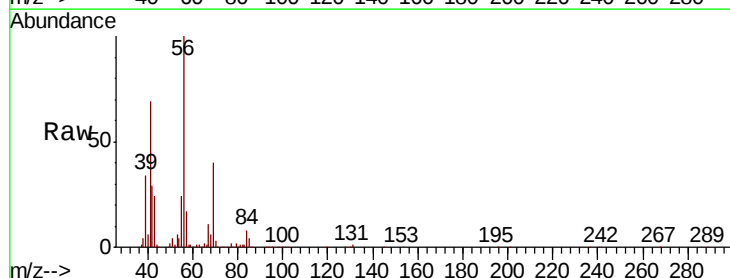
Instrument :
 MSVOA_L
 ClientSampled :
 SG-2

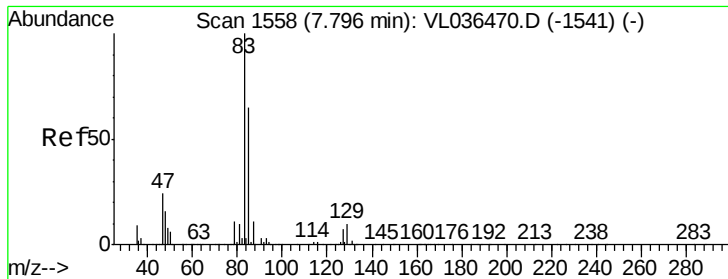
Tot Ion: 63 Resp: 920201
 Ion Ratio Lower Upper
 63 100
 41 0.0 62.4 93.6#
 62 15.5 52.8 79.2#



#41
 Tetrahydrofuran
 Concen: 1.203 ppbv
 RT: 6.31 min Scan# 1096
 Delta R.T. 0.26 min
 Lab File: VL036765.D
 Acq: 9 Apr 2021 1:04

Tgt Ion: 42 Resp: 95273
 Ion Ratio Lower Upper
 42 100
 72 0.2 27.6 41.4#
 71 0.0 27.0 40.4#





#42

Bromodichloromethane

Concen: 0.689 ppbv

RT: 7.79 min Scan# 1555

Delta R.T. -0.01 min

Lab File: VL036765.D

Acq: 9 Apr 2021 1:04

Instrument :

MSVOA_L

ClientSampleId :

SG-2

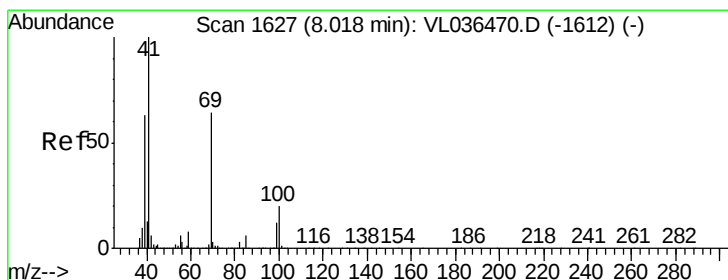
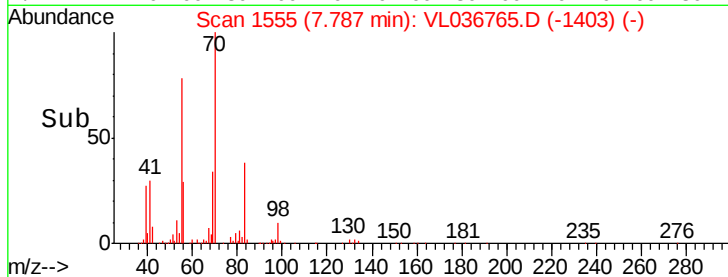
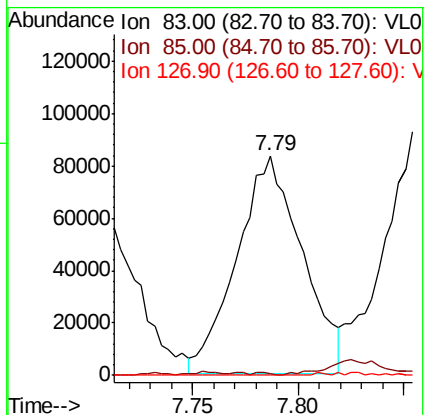
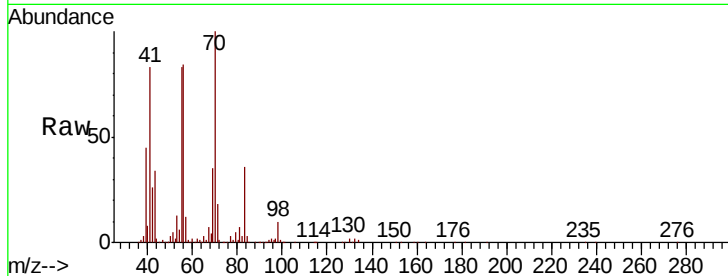
Tot Ion: 83 Resp: 178982

Ion Ratio Lower Upper

83 100

85 0.0 51.8 77.6#

127 0.0 5.8 8.8#



#43

Methyl Methacrylate

Concen: 0.078 ppbv

RT: 7.97 min Scan# 1613

Delta R.T. -0.05 min

Lab File: VL036765.D

Acq: 9 Apr 2021 1:04

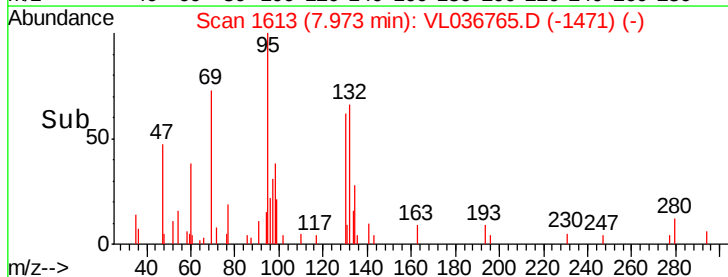
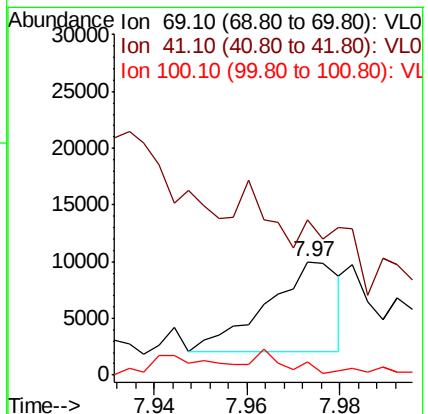
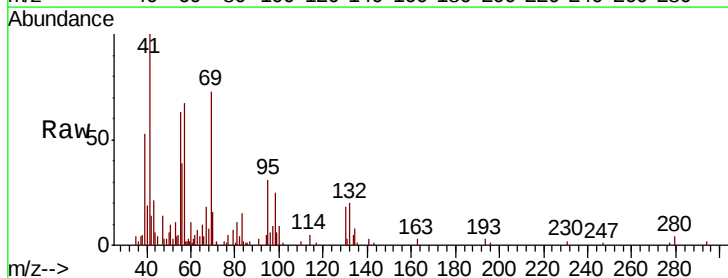
Tgt Ion: 69 Resp: 8504

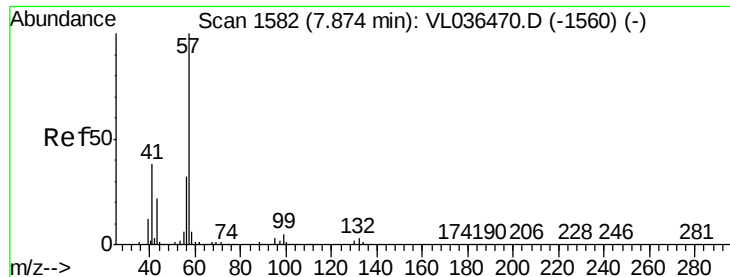
Ion Ratio Lower Upper

69 100

41 0.0 126.8 190.2#

100 38.0 24.9 37.3#





#44

2,2,4-Trimethylpentane

Concen: 10.467 ppbv

RT: 7.86 min Scan# 1579

Delta R.T. -0.01 min

Lab File: VL036765.D

Acq: 9 Apr 2021 1:04

Instrument :

MSVOA_L

ClientSampleId :

SG-2

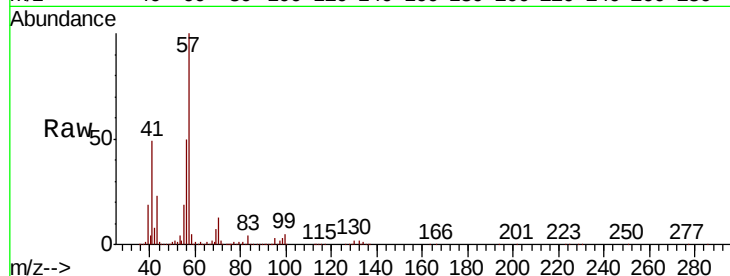
Tot Ion: 57 Resp: 5980530

Ion Ratio Lower Upper

57 100

41 50.1 28.8 43.2#

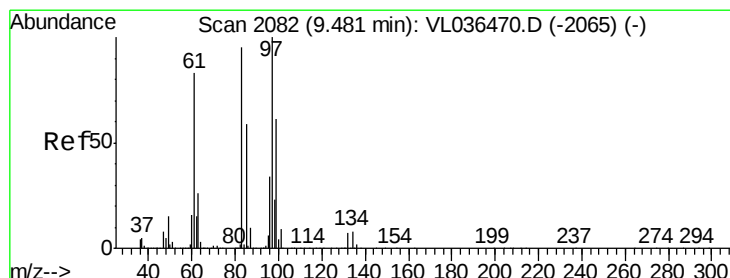
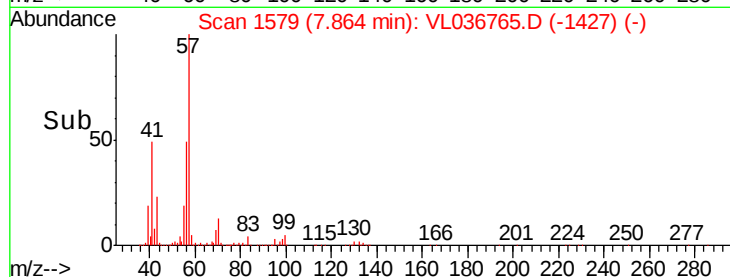
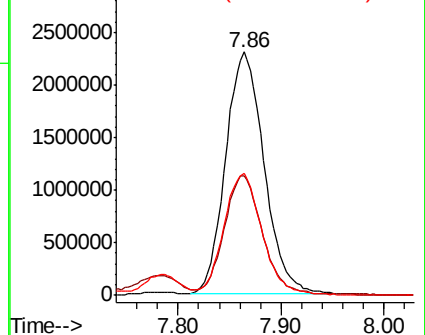
56 50.6 26.1 39.1#



Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#47

1,1,2-Trichloroethane

Concen: 0.926 ppbv

RT: 9.56 min Scan# 2107

Delta R.T. 0.08 min

Lab File: VL036765.D

Acq: 9 Apr 2021 1:04

Tgt Ion: 97 Resp: 123468

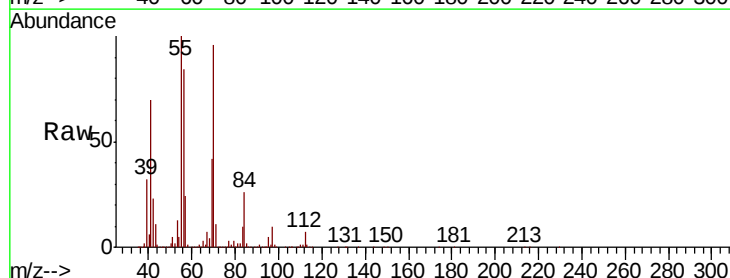
Ion Ratio Lower Upper

97 100

83 91.6 75.8 113.8

85 16.2 47.1 70.7#

99 0.8 49.2 73.8#

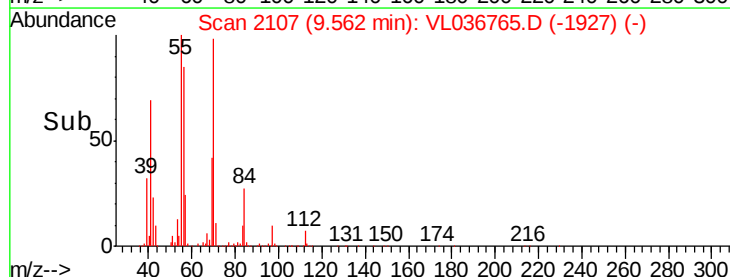
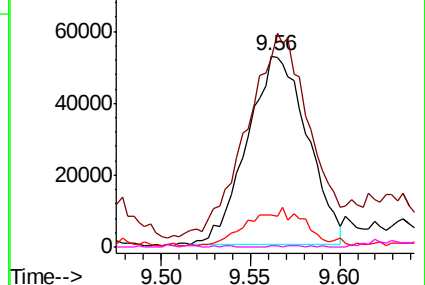


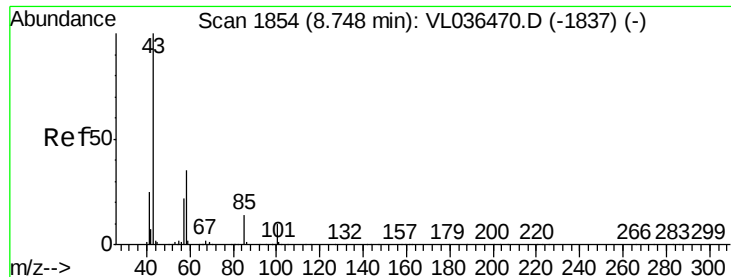
Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

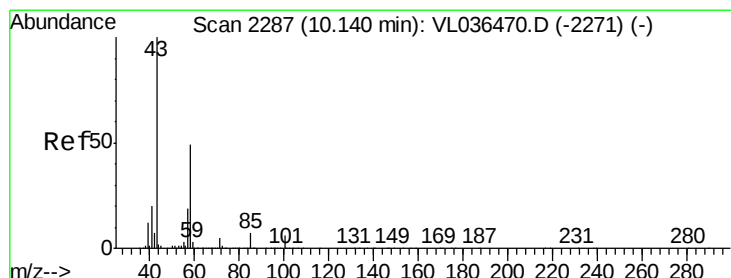
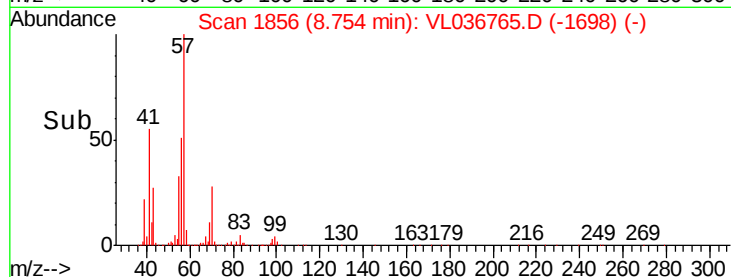
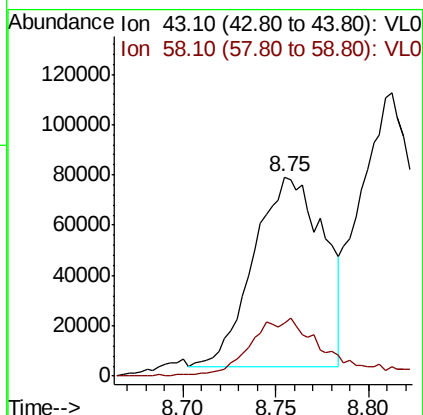
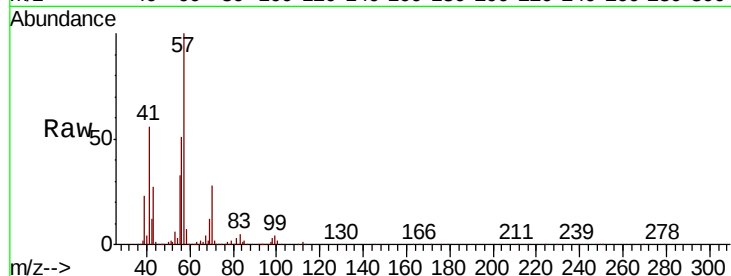




#50
4-Methyl-2-Pentanone
Concen: 0.800 ppbv
RT: 8.75 min Scan# 1856
Delta R.T. 0.01 min
Lab File: VL036765.D
Acq: 9 Apr 2021 1:04

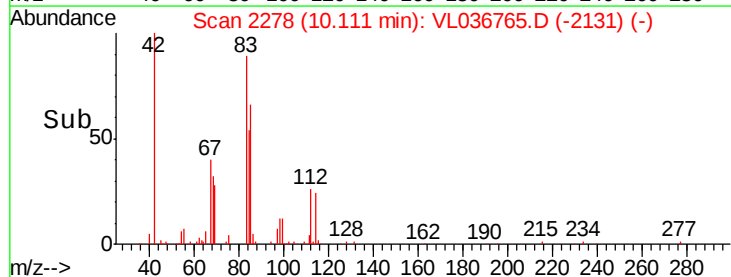
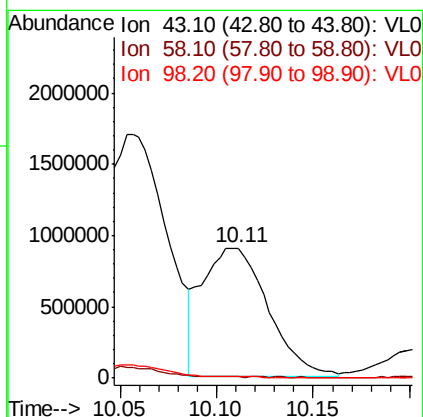
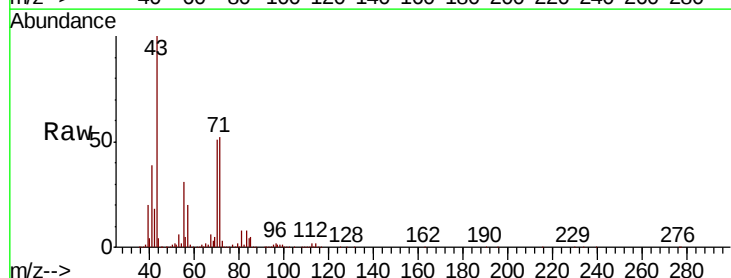
Instrument :
MSVOA_L
ClientSampleId :
SG-2

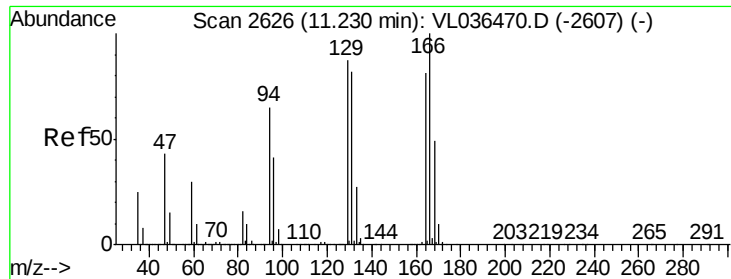
Tot Ion: 43 Resp: 198805
Ion Ratio Lower Upper
43 100
58 31.1 28.2 42.2



#51
2-Hexanone
Concen: 16.984 ppbv
RT: 10.11 min Scan# 2278
Delta R.T. -0.03 min
Lab File: VL036765.D
Acq: 9 Apr 2021 1:04

Tgt Ion: 43 Resp: 2130988
Ion Ratio Lower Upper
43 100
58 0.7 37.7 56.5#
98 0.0 0.2 0.2#





#52

Tetrachloroethene

Concen: 0.042 ppbv

RT: 11.21 min Scan# 2620

Delta R.T. -0.02 min

Lab File: VL036765.D

Acq: 9 Apr 2021 1:04

Instrument :

MSVOA_L

ClientSampleId :

SG-2

Tot Ion:164 Resp: 5024

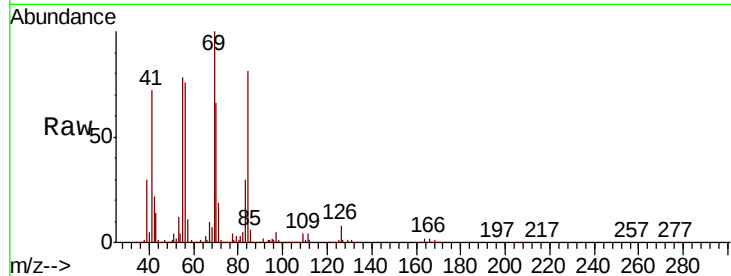
Ion Ratio Lower Upper

164 100

166 114.7 98.3 147.5

129 83.6 85.8 128.8#

131 65.1 80.9 121.3#



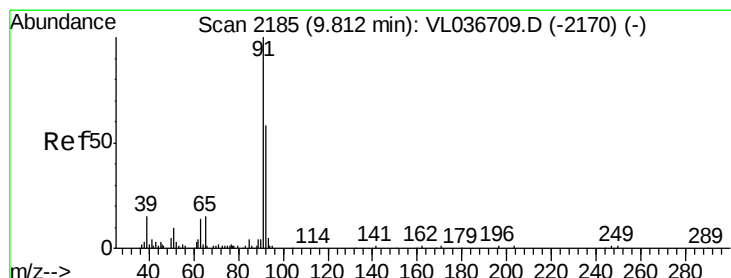
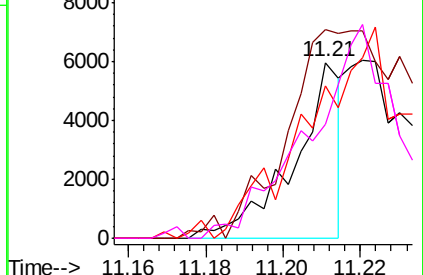
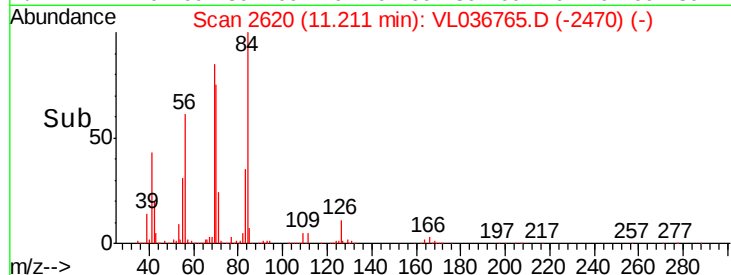
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Time-->



#53

Toluene

Concen: 1.210 ppbv

RT: 9.80 min Scan# 2182

Delta R.T. -0.01 min

Lab File: VL036765.D

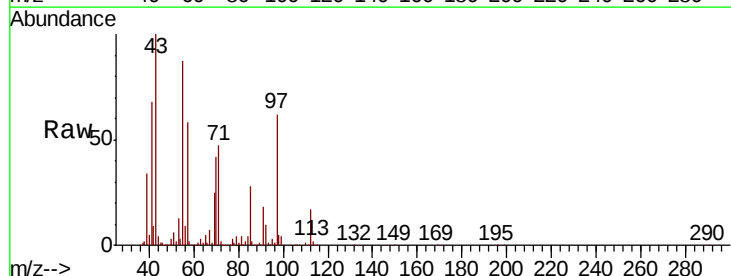
Acq: 9 Apr 2021 1:04

Tgt Ion: 91 Resp: 418340

Ion Ratio Lower Upper

91 100

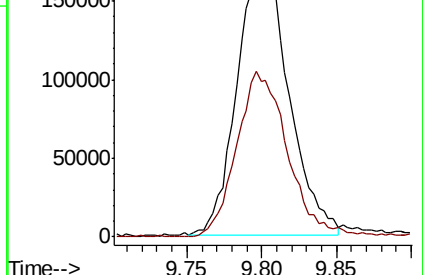
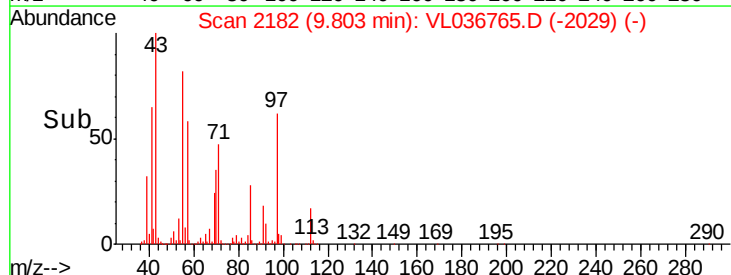
92 60.0 48.8 73.2

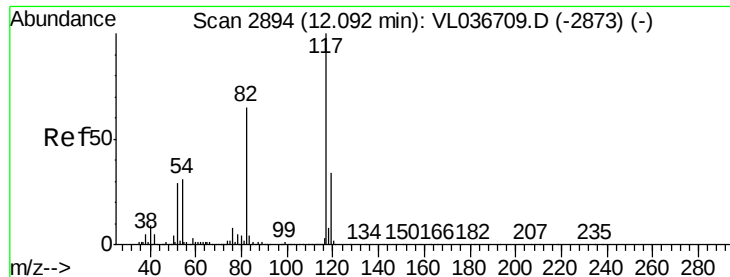


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Time-->

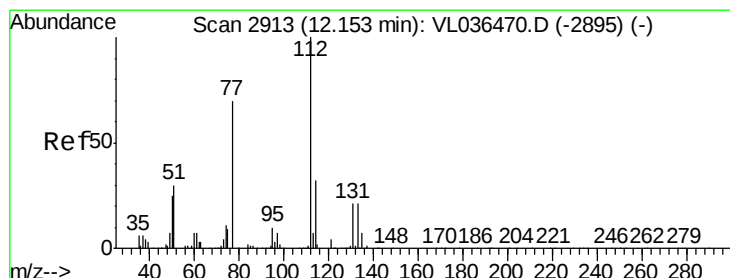
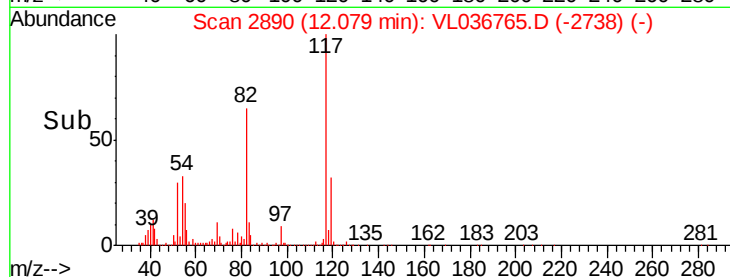
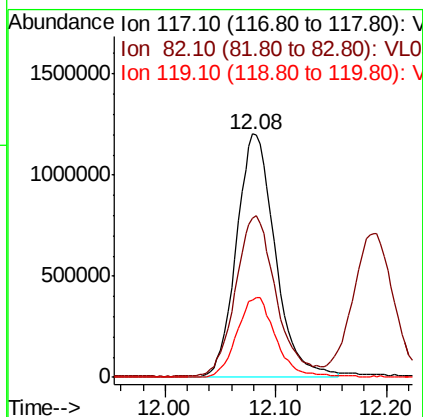
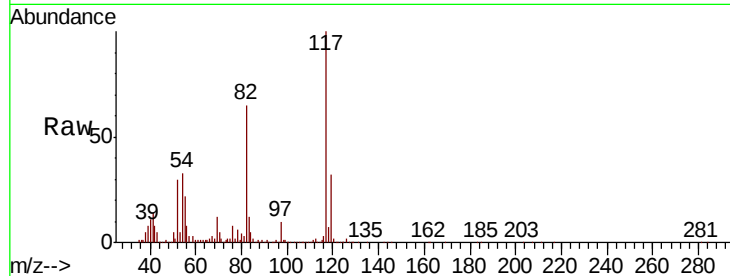




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min Scan# 2890
Delta R.T. -0.01 min
Lab File: VL036765.D
Acq: 9 Apr 2021 1:04

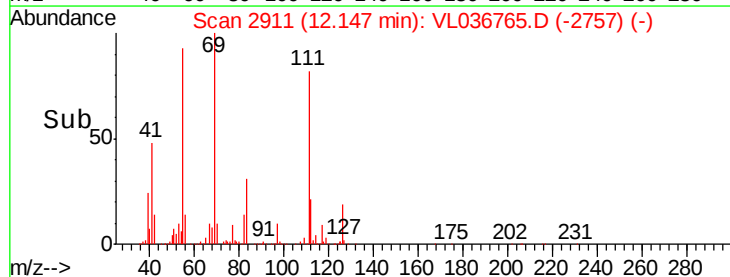
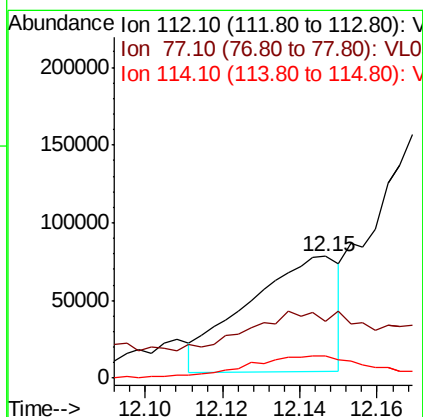
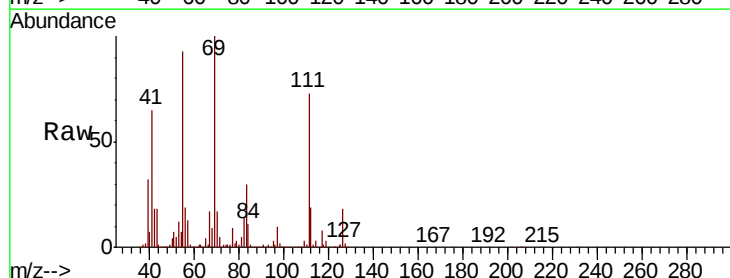
Instrument :
MSVOA_L
ClientSampleId :
SG-2

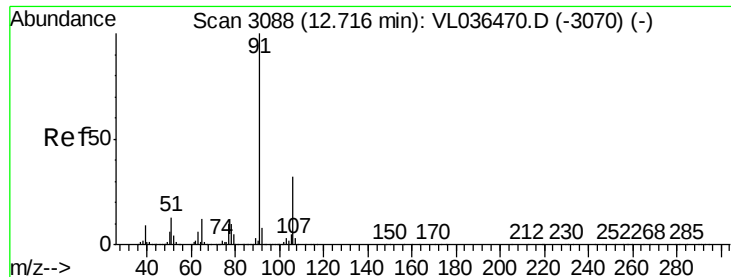
Tot Ion:117 Resp: 2930764
Ion Ratio Lower Upper
117 100
82 69.0 57.4 86.0
119 33.6 47.4 71.0#



#57
Chlorobenzene
Concen: 0.491 ppbv
RT: 12.15 min Scan# 2911
Delta R.T. -0.01 min
Lab File: VL036765.D
Acq: 9 Apr 2021 1:04

Tgt Ion:112 Resp: 122369
Ion Ratio Lower Upper
112 100
77 26.2 56.0 84.0#
114 21.4 29.0 35.4#





#58

Ethyl Benzene

Concen: 0.801 ppbv

RT: 12.71 min Scan# 3085

Delta R.T. -0.01 min

Lab File: VL036765.D

Acq: 9 Apr 2021 1:04

Instrument :

MSVOA_L

ClientSampleId :

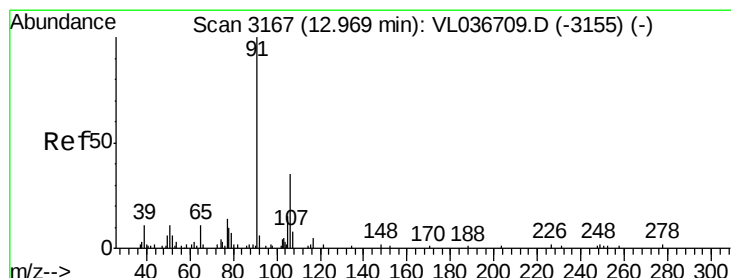
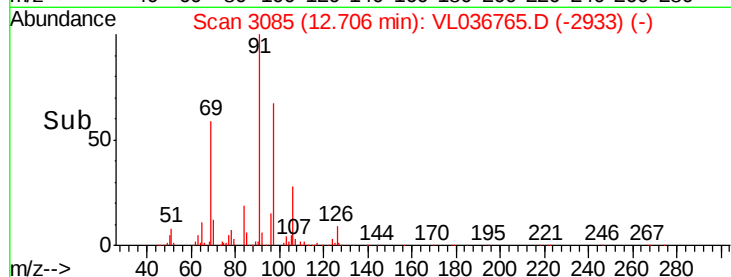
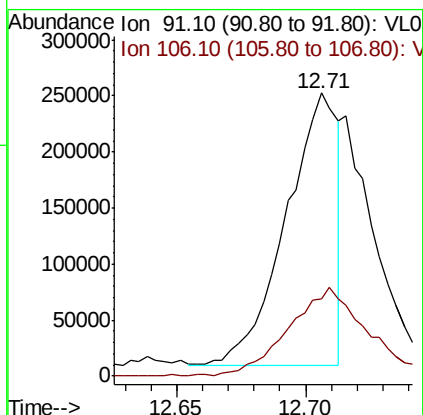
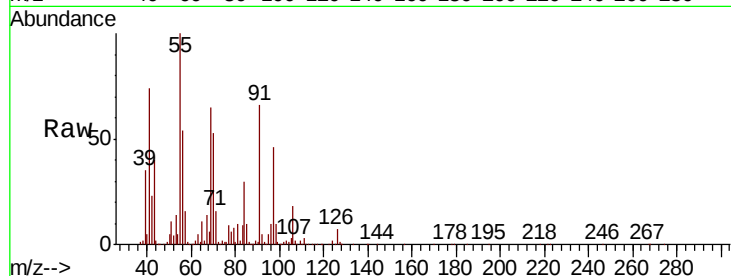
SG-2

Tot Ion: 91 Resp: 341461

Ion Ratio Lower Upper

91 100

106 28.2 25.3 37.9



#59

m/p-Xylene

Concen: 3.340 ppbv

RT: 12.97 min Scan# 3166

Delta R.T. -0.04 min

Lab File: VL036765.D

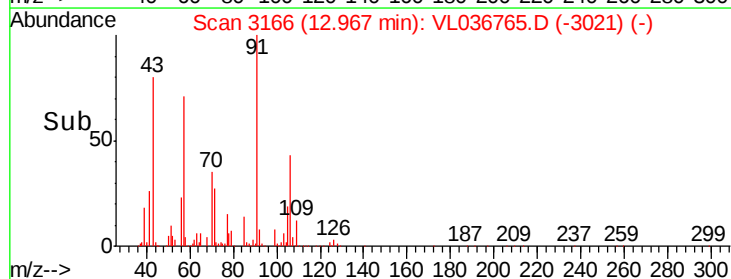
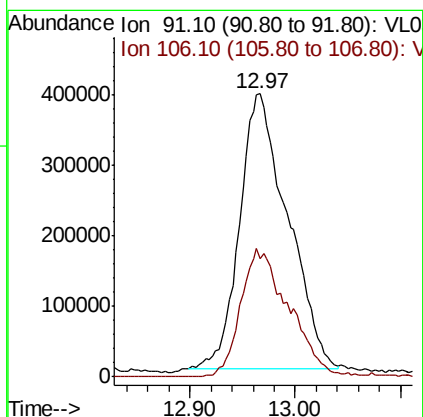
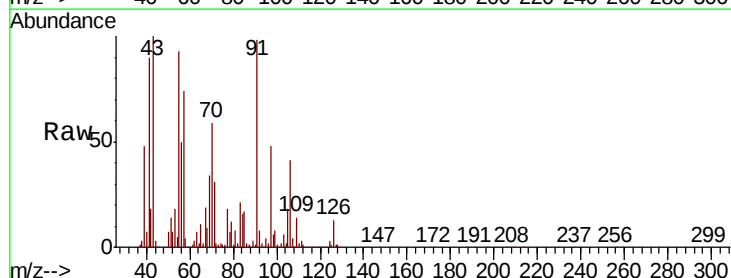
Acq: 9 Apr 2021 1:04

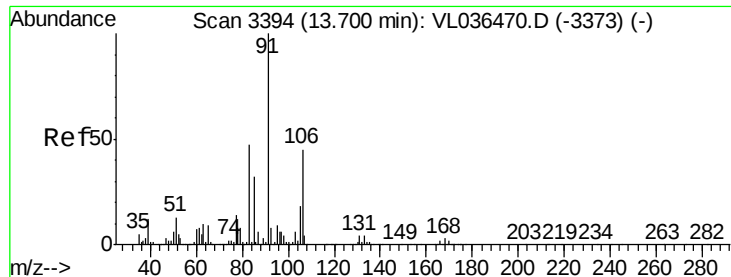
Tgt Ion: 91 Resp: 1242305

Ion Ratio Lower Upper

91 100

106 46.9 35.3 52.9

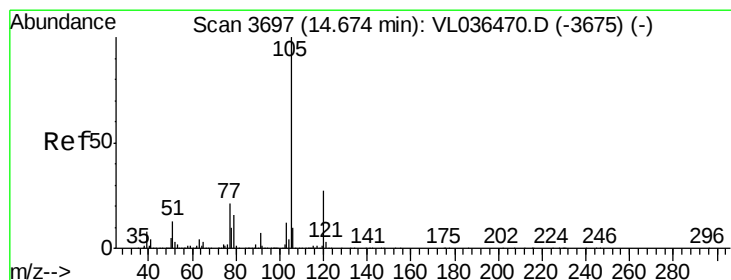
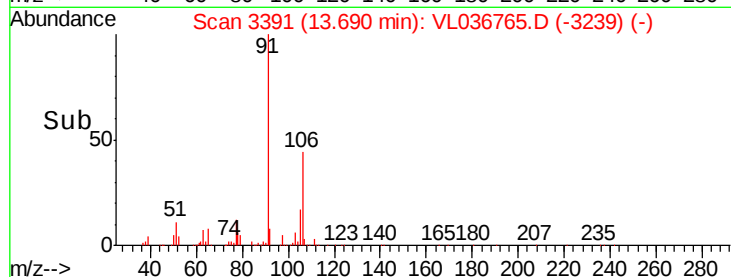
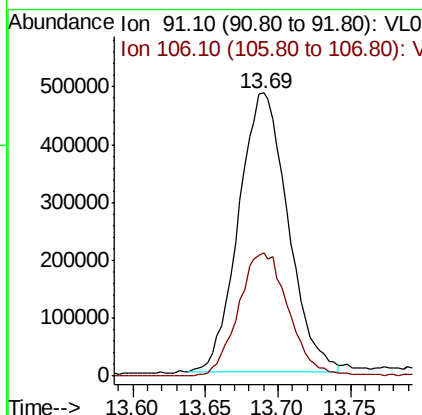
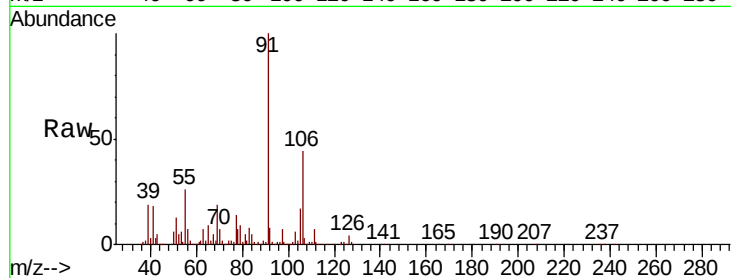




#60
o-Xylene
Concen: 3.190 ppbv
RT: 13.69 min Scan# 3391
Delta R.T. -0.01 min
Lab File: VL036765.D
Acq: 9 Apr 2021 1:04

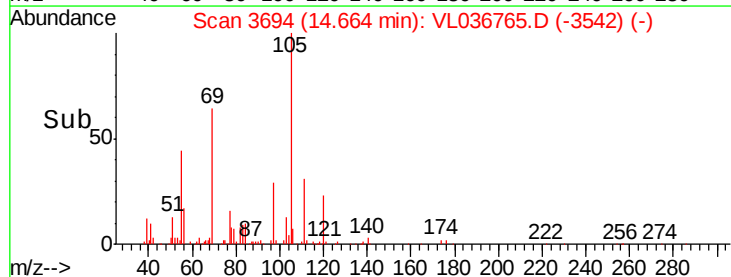
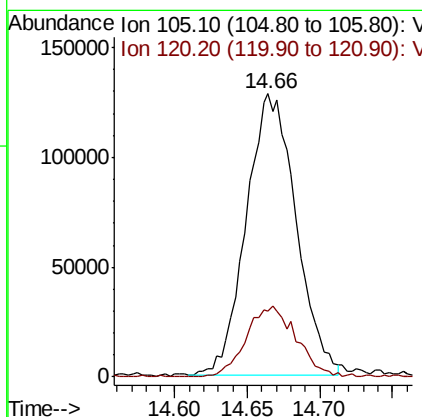
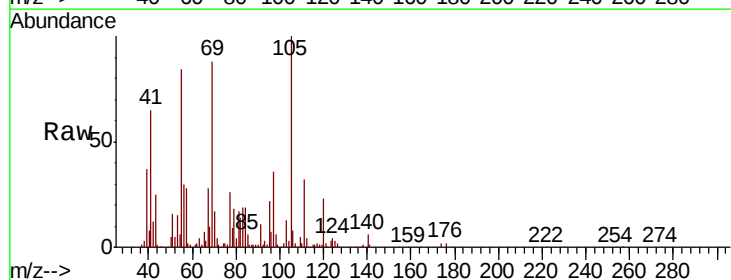
Instrument :
MSVOA_L
ClientSampleID :
SG-2

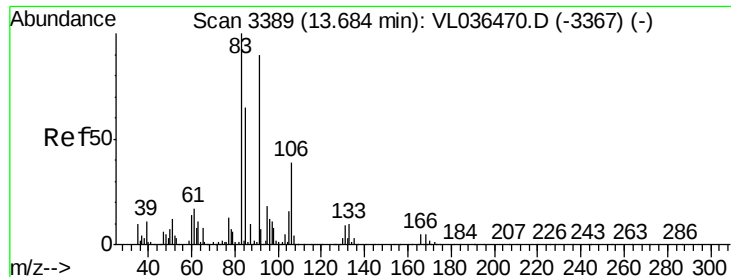
Tot Ion: 91 Resp: 1147120
Ion Ratio Lower Upper
91 100
106 45.2 22.3 66.9



#62
Isopropylbenzene
Concen: 0.630 ppbv
RT: 14.66 min Scan# 3694
Delta R.T. -0.01 min
Lab File: VL036765.D
Acq: 9 Apr 2021 1:04

Tgt Ion: 105 Resp: 305256
Ion Ratio Lower Upper
105 100
120 25.6 20.6 31.0





#63

1,1,2,2-Tetrachloroethane

Concen: 0.293 ppbv

RT: 13.66 min Scan# 3381

Delta R.T. -0.03 min

Lab File: VL036765.D

Acq: 9 Apr 2021 1:04

Instrument :

MSVOA_L

ClientSampleId :

SG-2

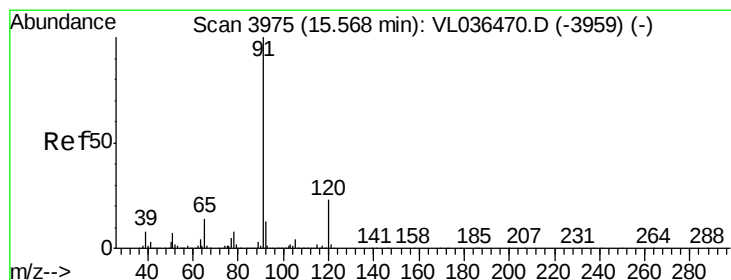
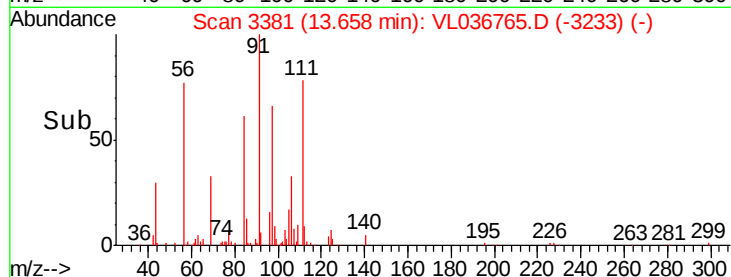
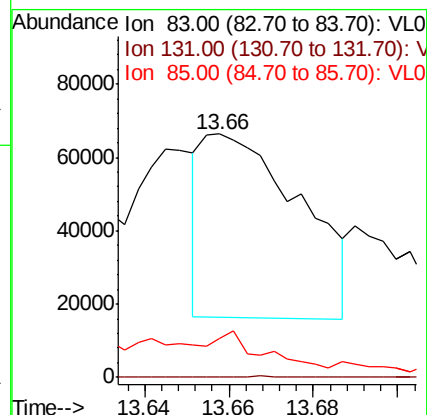
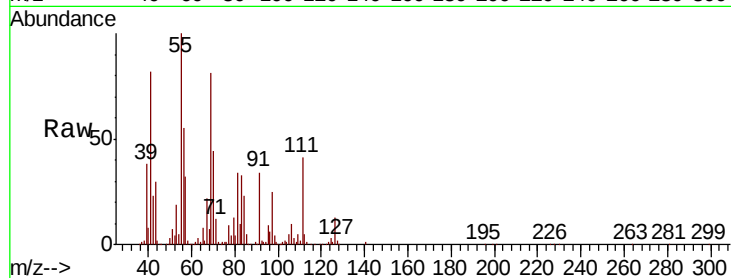
Tot Ion: 83 Resp: 80492

Ion Ratio Lower Upper

83 100

131 0.2 4.7 14.0#

85 29.1 33.1 99.3#



#64

n-propylbenzene

Concen: 0.506 ppbv

RT: 15.56 min Scan# 3972

Delta R.T. -0.01 min

Lab File: VL036765.D

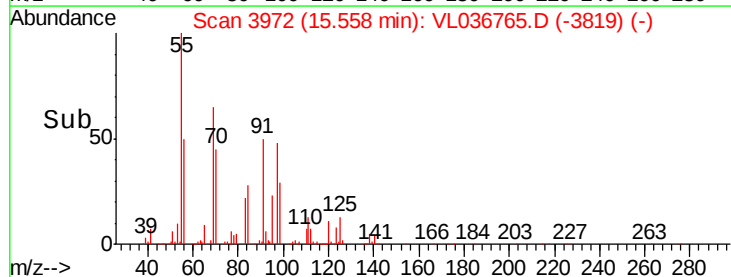
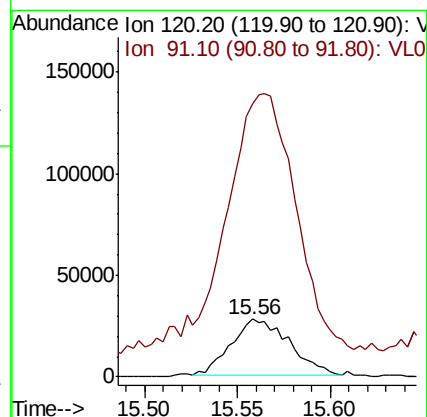
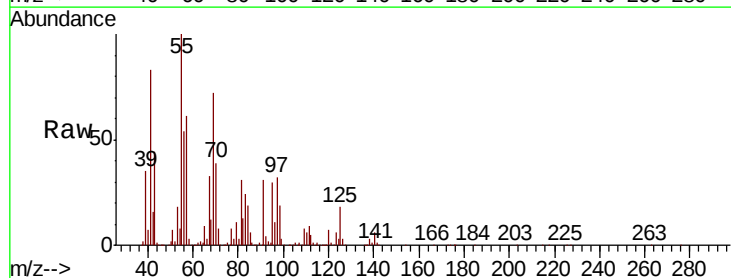
Acq: 9 Apr 2021 1:04

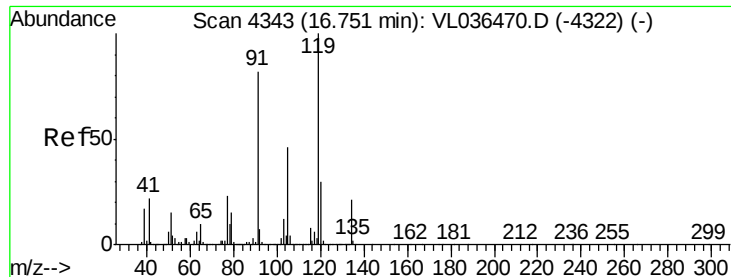
Tgt Ion:120 Resp: 59867

Ion Ratio Lower Upper

120 100

91 631.1 377.4 566.2#

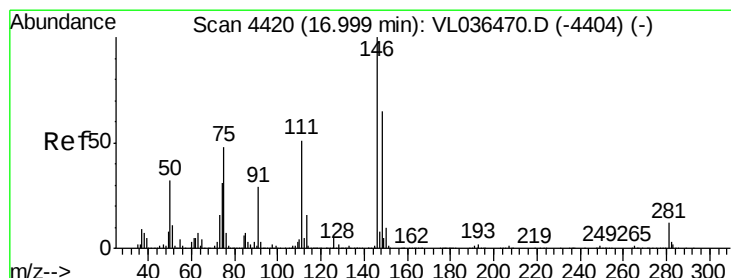
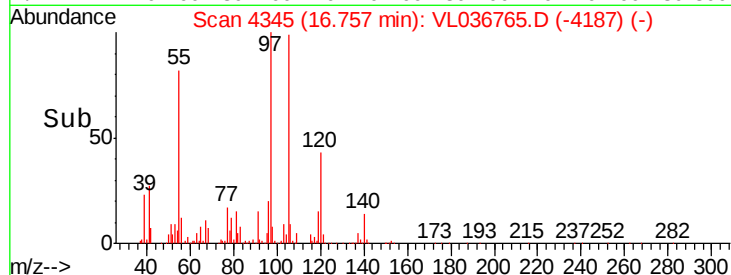
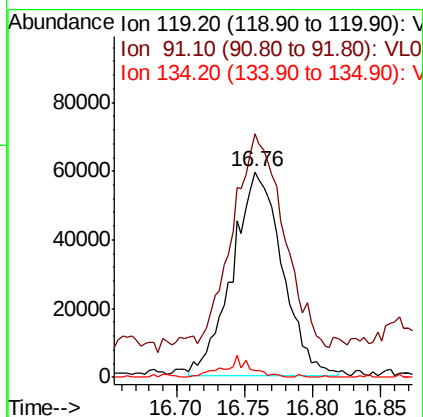
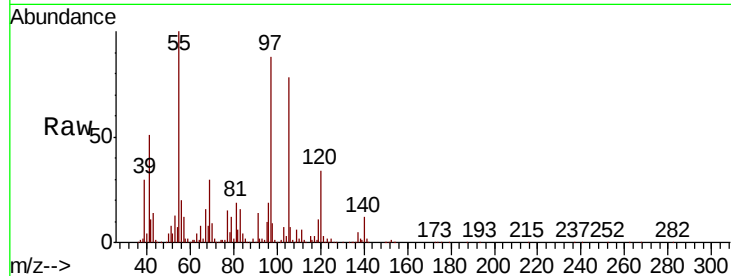




#65
tert-Butylbenzene
Concen: 0.362 ppbv
RT: 16.76 min Scan# 4345
Delta R.T. 0.01 min
Lab File: VL036765.D
Acq: 9 Apr 2021 1:04

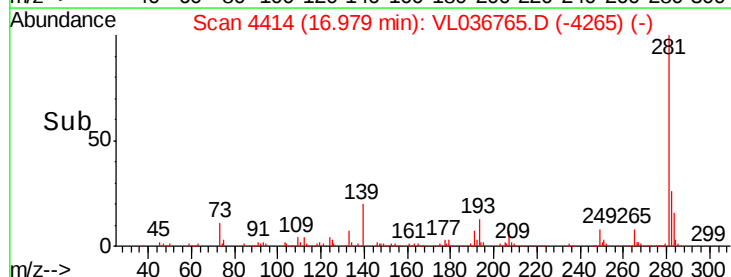
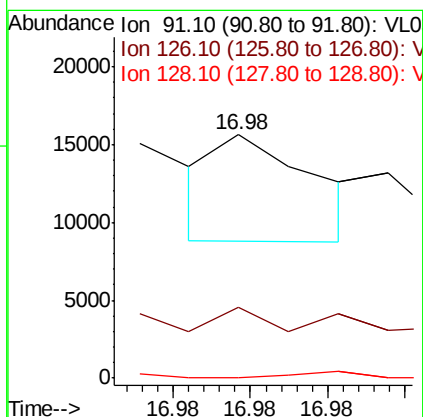
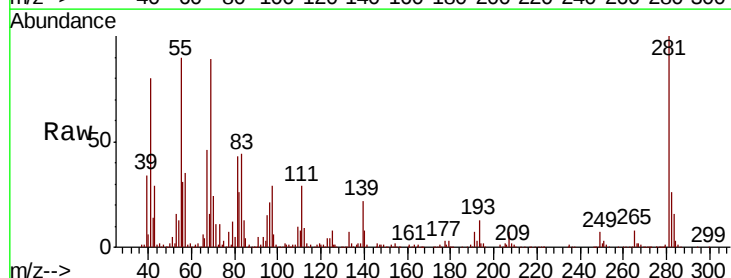
Instrument :
MSVOA_L
ClientSampleId :
SG-2

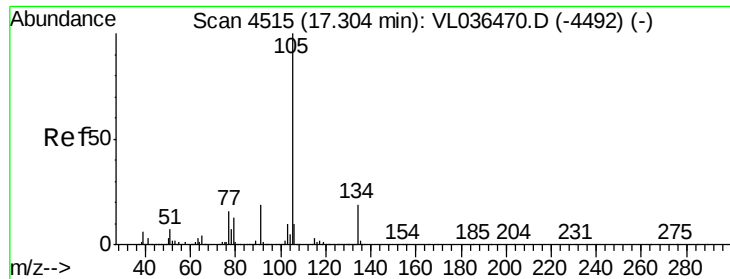
Tot Ion: 119 Resp: 152043
Ion Ratio Lower Upper
119 100
91 115.2 67.5 101.3#
134 6.4 15.8 23.8#



#66
Benzyl Chloride
Concen: 0.064 ppbv
RT: 16.98 min Scan# 4414
Delta R.T. -0.02 min
Lab File: VL036765.D
Acq: 9 Apr 2021 1:04

Tgt Ion: 91 Resp: 2979
Ion Ratio Lower Upper
91 100
126 363.2 13.5 20.3#
128 0.0 4.2 6.4#





#67

sec-Butylbenzene

Concen: 0.179 ppbv

RT: 17.30 min Scan# 4513

Delta R.T. -0.01 min

Lab File: VL036765.D

Acq: 9 Apr 2021 1:04

Instrument :

MSVOA_L

ClientSampleId :

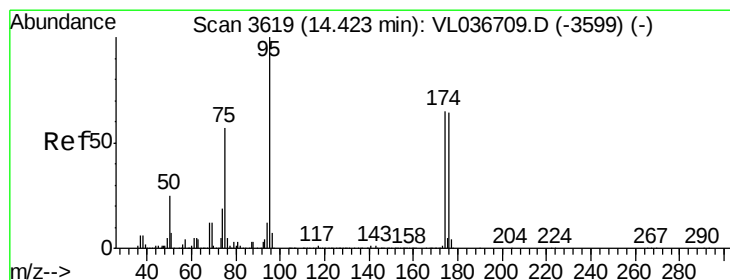
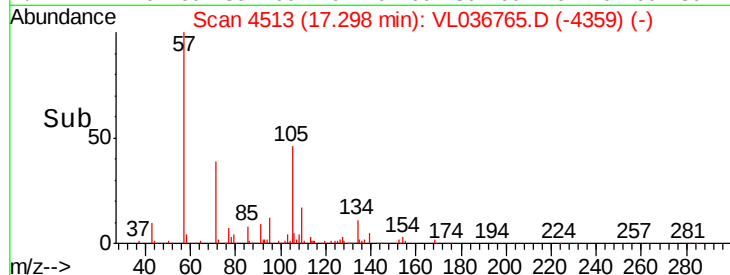
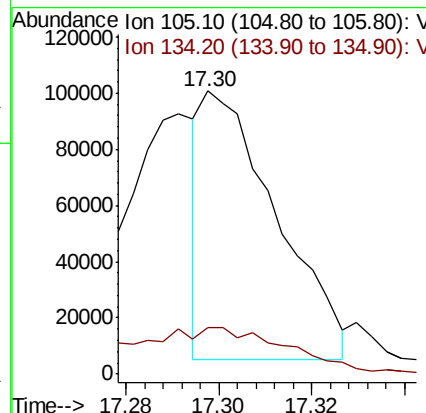
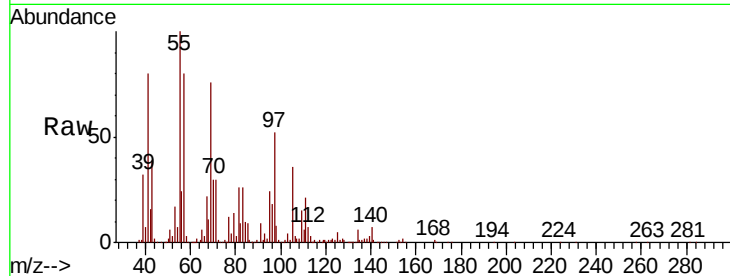
SG-2

Tot Ion:105 Resp: 105922

Ion Ratio Lower Upper

105 100

134 39.3 14.7 22.1#



#68

1-Bromo-4-Fluorobenzene

Concen: 10.923 ppbv

RT: 14.41 min Scan# 3615

Delta R.T. -0.01 min

Lab File: VL036765.D

Acq: 9 Apr 2021 1:04

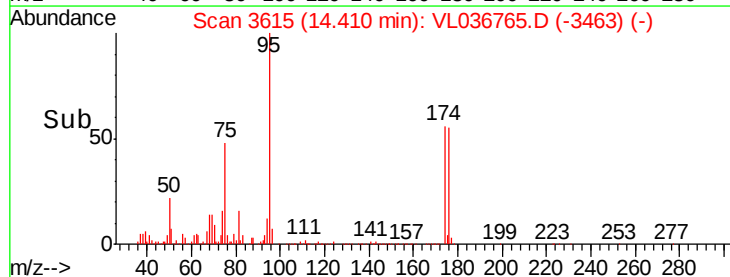
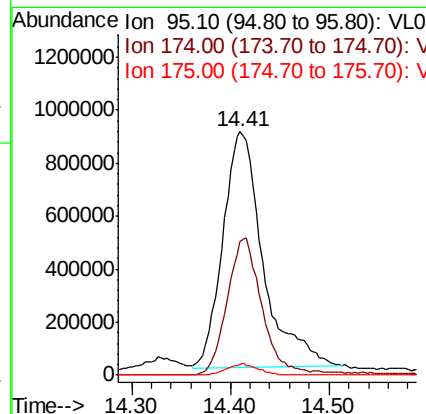
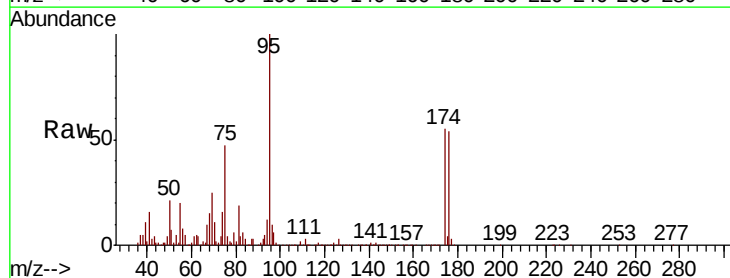
Tgt Ion: 95 Resp: 2551440

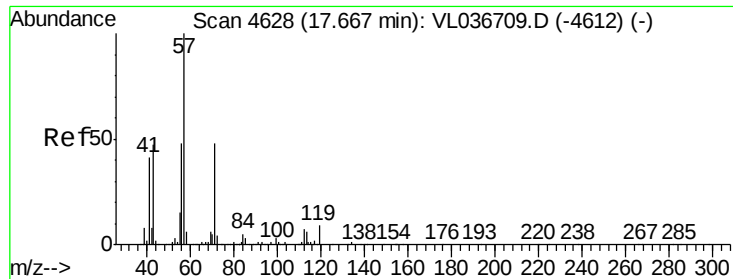
Ion Ratio Lower Upper

95 100

174 50.5 51.0 76.6#

175 3.8 3.9 5.9#





#69

p-Isopropyltoluene

Concen: 0.717 ppbv

RT: 17.65 min Scan# 4623

Delta R.T. -0.01 min

Lab File: VL036765.D

Acq: 9 Apr 2021 1:04

Instrument :

MSVOA_L

ClientSampleId :

SG-2

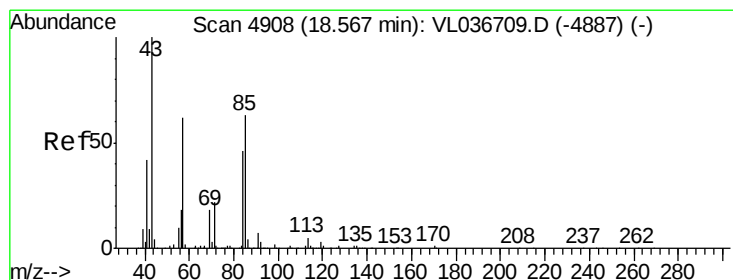
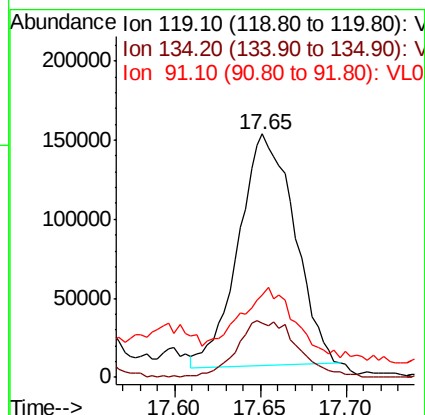
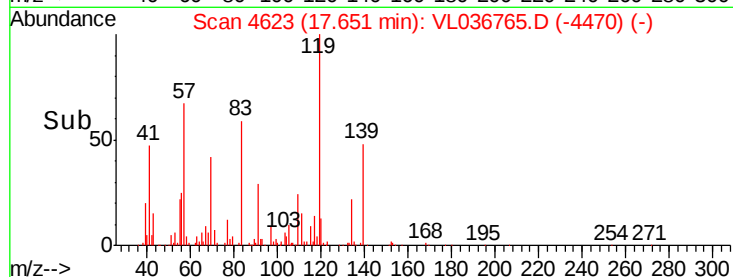
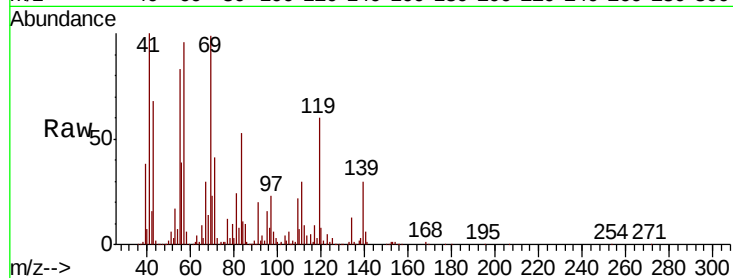
Tot Ion:119 Resp: 331970

Ion Ratio Lower Upper

119 100

134 26.4 20.6 30.8

91 39.5 25.0 37.6#



#70

n-Butylbenzene

Concen: 0.100 ppbv

RT: 18.53 min Scan# 4897

Delta R.T. -0.03 min

Lab File: VL036765.D

Acq: 9 Apr 2021 1:04

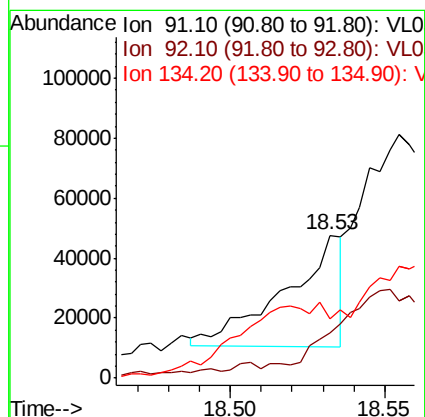
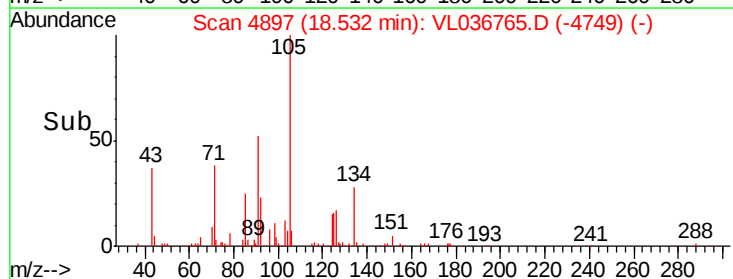
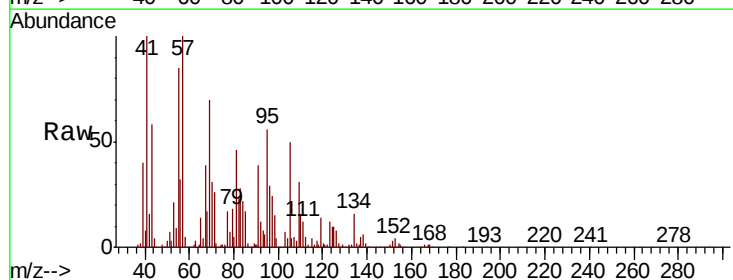
Tgt Ion: 91 Resp: 48180

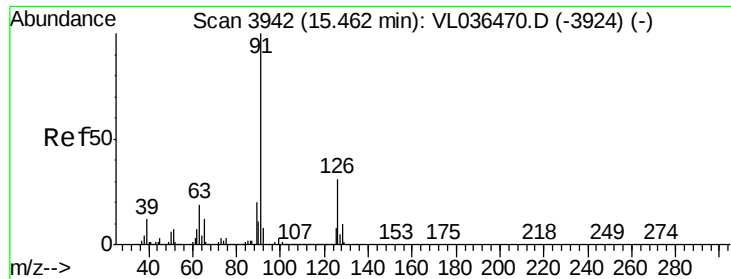
Ion Ratio Lower Upper

91 100

92 0.0 43.8 65.8#

134 0.0 18.0 27.0#

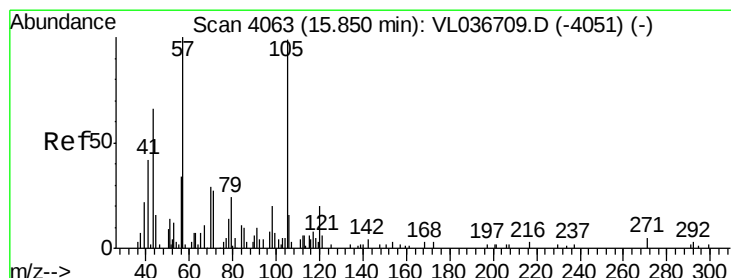
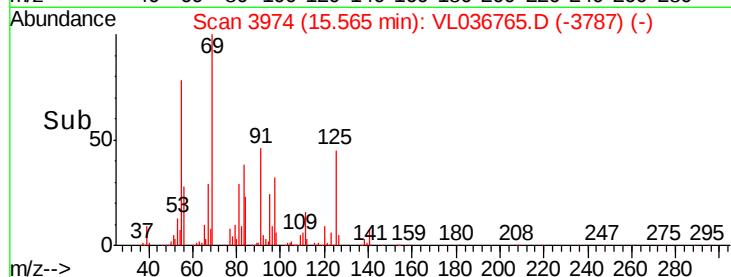
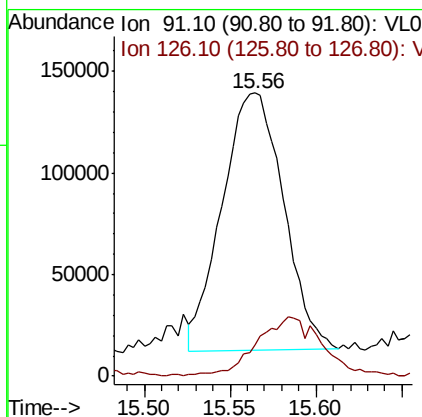
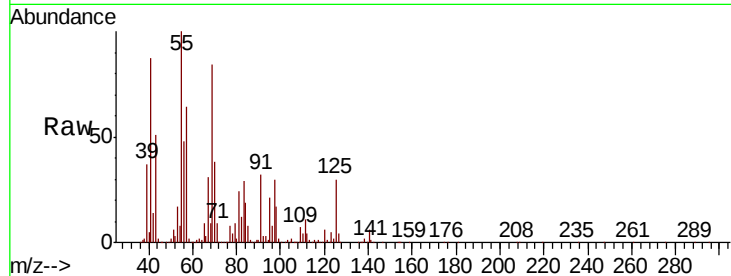




#71
 2-Chlorotoluene
 Concen: 0.867 ppbv
 RT: 15.56 min Scan# 3974
 Delta R.T. 0.10 min
 Lab File: VL036765.D
 Acq: 9 Apr 2021 1:04

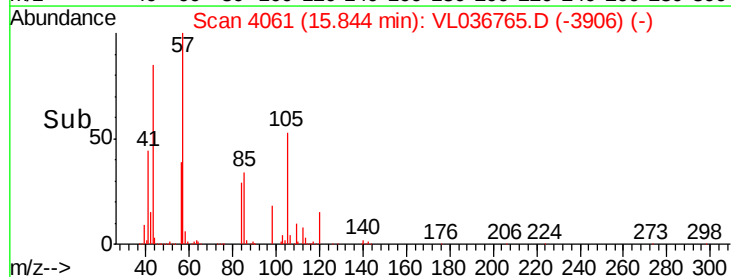
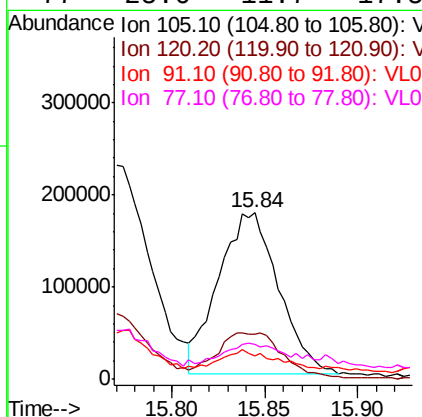
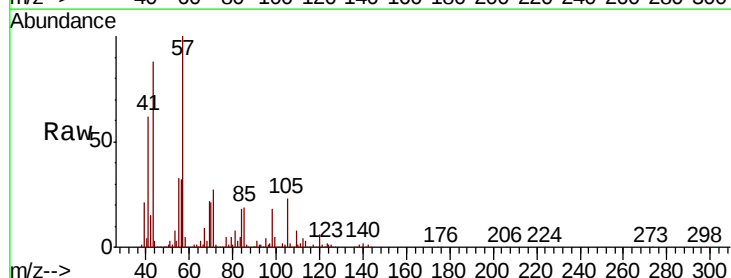
Instrument :
 MSVOA_L
 ClientSampleId :
 SG-2

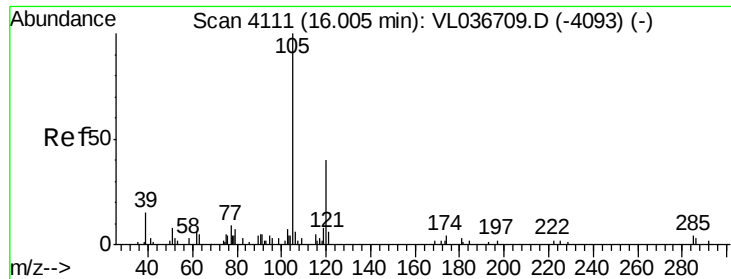
Tot Ion: 91 Resp: 314747
 Ion Ratio Lower Upper
 91 100
 126 23.5 12.1 48.5



#72
 4-Ethyltoluene
 Concen: 1.001 ppbv
 RT: 15.84 min Scan# 4061
 Delta R.T. -0.00 min
 Lab File: VL036765.D
 Acq: 9 Apr 2021 1:04

Tgt Ion: 105 Resp: 394491
 Ion Ratio Lower Upper
 105 100
 120 32.3 24.0 36.0
 91 19.8 11.0 16.4#
 77 25.6 11.7 17.5#





#73

1,3,5-Trimethylbenzene

Concen: 1.882 ppbv

RT: 16.00 min Scan# 4110

Delta R.T. -0.01 min

Lab File: VL036765.D

Acq: 9 Apr 2021 1:04

Instrument :

MSVOA_L

ClientSampleId :

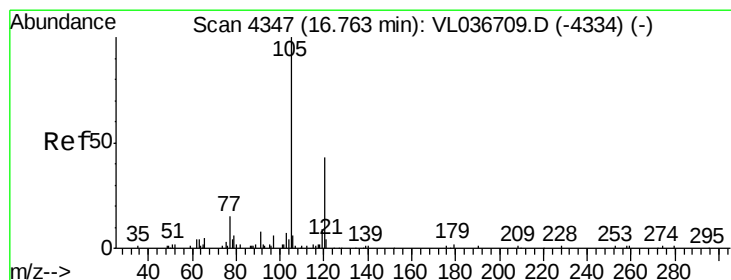
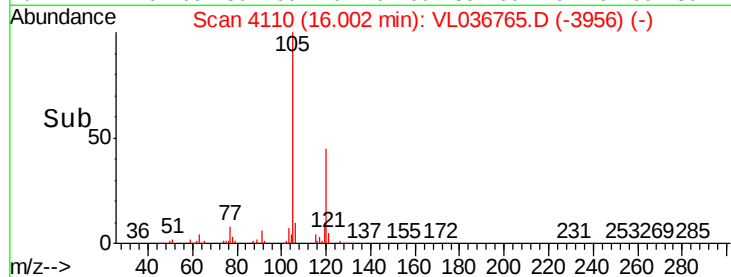
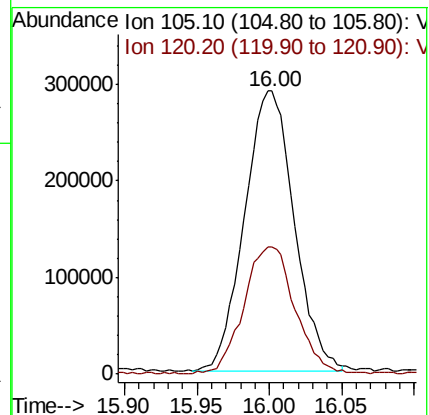
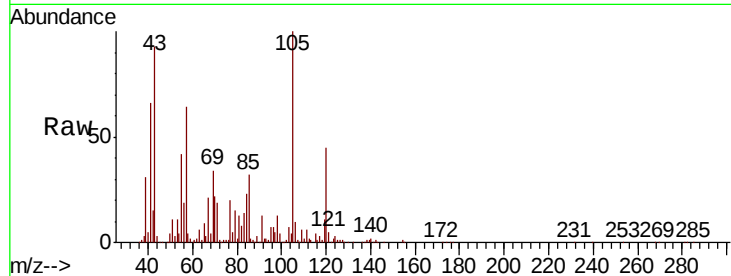
SG-2

Tot Ion:105 Resp: 691965

Ion Ratio Lower Upper

105 100

120 45.3 36.6 54.8



#74

1,2,4-Trimethylbenzene

Concen: 2.624 ppbv

RT: 16.76 min Scan# 4347

Delta R.T. -0.01 min

Lab File: VL036765.D

Acq: 9 Apr 2021 1:04

Tgt Ion:105 Resp: 1032662

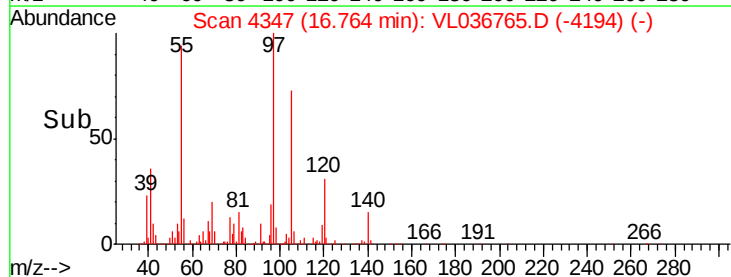
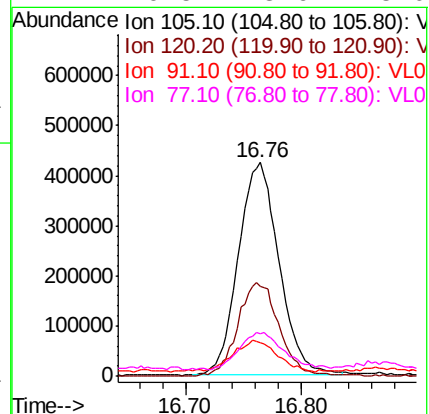
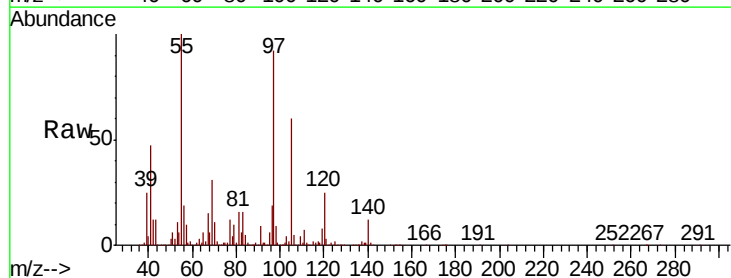
Ion Ratio Lower Upper

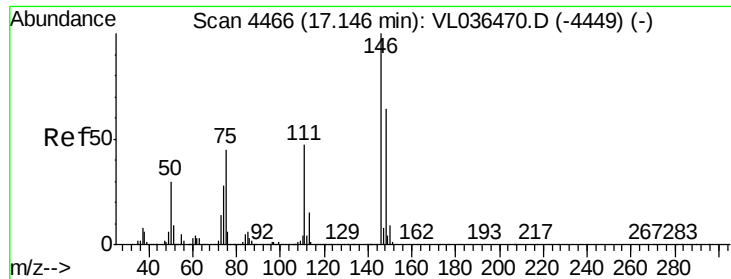
105 100

120 42.0 39.2 58.8

91 13.1 42.6 64.0#

77 16.5 18.6 28.0#

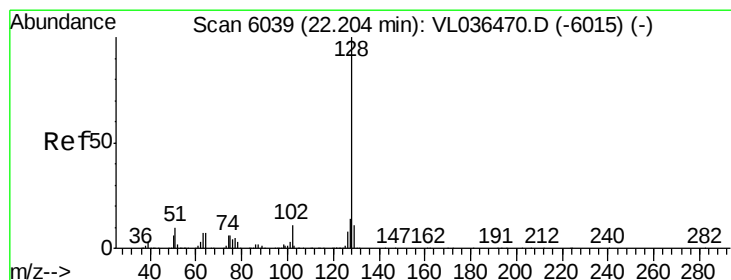
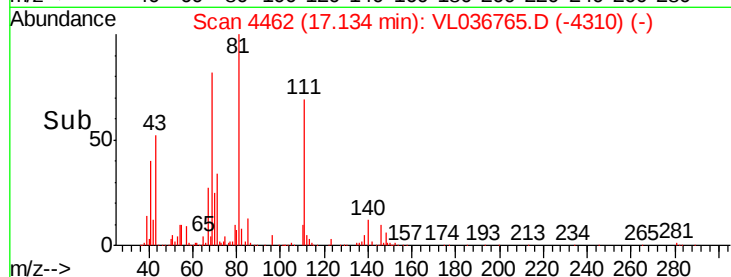
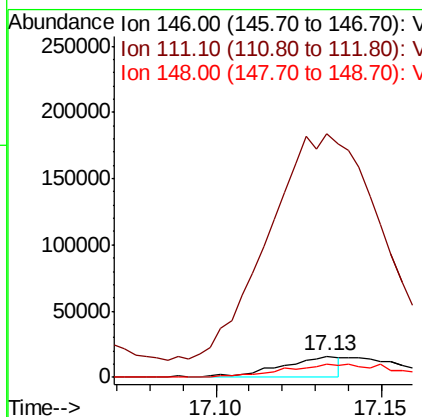
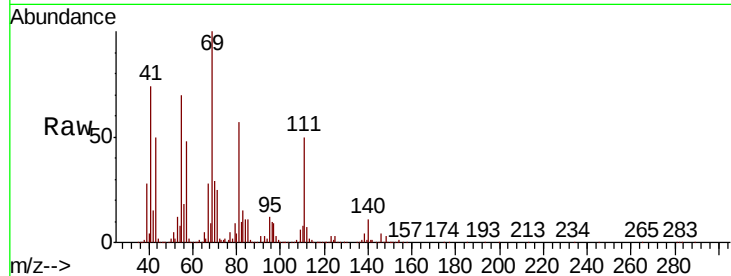




#76
 1,4-Dichlorobenzene
 Concen: 0.085 ppbv
 RT: 17.13 min Scan# 4462
 Delta R.T. -0.01 min
 Lab File: VL036765.D
 Acq: 9 Apr 2021 1:04

Instrument :
 MSVOA_L
 ClientSampled :
 SG-2

Tot Ion:146 Resp: 18796
 Ion Ratio Lower Upper
 146 100
 111 2129.4 24.3 72.8#
 148 139.9 33.0 98.9#



#79
 Naphthalene
 Concen: 0.043 ppbv
 RT: 22.18 min Scan# 6032
 Delta R.T. -0.02 min
 Lab File: VL036765.D
 Acq: 9 Apr 2021 1:04

Tgt Ion:128 Resp: 9919
 Ion Ratio Lower Upper
 128 100
 127 5.2 10.9 16.3#
 129 20.7 9.0 13.4#

