

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040821\
 Data File : VL036759.D
 Acq On : 8 Apr 2021 20:36
 Operator : SY/AP
 Sample : M1981-01
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-3

Quant Time: Apr 09 08:40:52 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	1258377	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3254482	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2561647	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2987979	14.64	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	146.40%#

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	31497	0.153	ppbv	94
3) Chlorodifluoromethane	2.98	51	111023	0.472	ppbv #	76
4) Chloromethane	3.13	50	39450	0.475	ppbv #	88
5) Vinyl Chloride	3.25	62	1130969	13.245	ppbv	99
7) Chloroethane	3.25	64	362984	12.371	ppbv #	42
9) Propene	3.00	41	1900261	25.353	ppbv	92
10) Heptane	8.12	43	1121148	5.872	ppbv	100
11) Trichlorofluoromethane	3.94	101	34908	0.167	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.48	101	7563	0.057	ppbv #	80
13) Ethanol	3.61	45	758302	84.958	ppbv	91
15) Acetone	3.84	43	5945352	48.003	ppbv	98
16) 1,3-Butadiene	3.29	39	1575935	18.277	ppbv #	18
17) tert-Butyl alcohol	4.30	59	33046	0.307	ppbv #	72
18) 1,1-Dichloroethene	4.29	96	37368	0.628	ppbv #	1
19) Isopropyl Alcohol	3.98	45	289522	4.249	ppbv #	1
20) Methylene Chloride	4.34	84	2602548	44.880	ppbv	91
21) Allyl Chloride	4.36	41	112847	1.143	ppbv #	54
22) trans-1,2-Dichloroethene	4.88	96	335142	6.077	ppbv	95
23) Vinyl Acetate	5.05	43	154418	0.729	ppbv #	1
24) 1,1-Dichloroethane	5.01	63	17271	0.112	ppbv #	90
25) Ethyl Acetate	5.68	43	2369109	8.046	ppbv #	78
26) Hexane	5.68	57	3193075	23.368	ppbv #	47
27) Carbon Disulfide	4.54	76	940640	6.988	ppbv	98
30) Cyclohexane	7.13	84	406798	3.671	ppbv	86
31) cis-1,2-Dichloroethene	5.55	61	4213577	31.881	ppbv	96
32) 1,1,1-Trichloroethane	6.50	97	10812	0.049	ppbv #	1
34) 2-Butanone	5.24	43	679390	4.277	ppbv	98
35) Carbon Tetrachloride	7.01	117	14884	0.060	ppbv	85
36) Benzene	6.89	78	2562273	8.537	ppbv	99
38) Trichloroethene	7.83	130	4599733	39.378	ppbv	96
39) 1,2-Dichloropropane	7.87	63	12287	0.101	ppbv #	1
41) Tetrahydrofuran	6.32	42	109832	1.499	ppbv #	41
42) Bromodichloromethane	7.79	83	129552	0.539	ppbv #	24
43) Methyl Methacrylate	7.98	69	12250	0.122	ppbv #	1
44) 2,2,4-Trimethylpentane	7.87	57	7913088	14.979	ppbv #	80
47) 1,1,2-Trichloroethane	9.57	97	99286	0.805	ppbv #	61
50) 4-Methyl-2-Pentanone	8.76	43	320040	1.392	ppbv	98
51) 2-Hexanone	10.11	43	4227684	36.446	ppbv #	30
52) Tetrachloroethene	11.23	164	25749	0.233	ppbv	90
53) Toluene	9.80	91	1740611	5.446	ppbv	99
57) Chlorobenzene	12.15	112	431914	1.982	ppbv #	76

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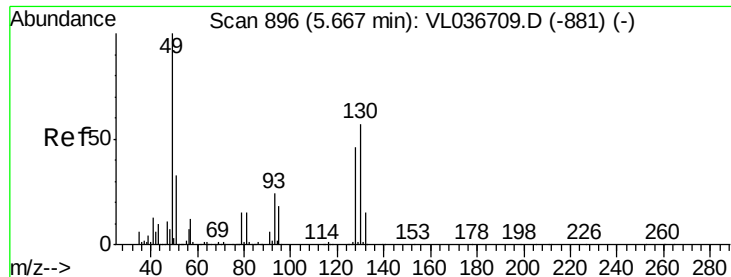
Instrument :
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

58) Ethyl Benzene	12.72	91	2310206	6.199	ppbv	98
59) m/p-Xylene	12.98	91	3273504	10.070	ppbv	97
60) o-Xylene	13.70	91	2853914	9.080	ppbv	99
61) Styrene	13.54	104	55894	0.353	ppbv #	61
62) Isopropylbenzene	14.67	105	658171	1.555	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.67	83	469673	1.959	ppbv #	24
64) n-propylbenzene	15.58	120	124890	1.207	ppbv #	55
65) tert-Butylbenzene	16.77	119	158341	0.431	ppbv #	1
66) Benzyl Chloride	16.99	91	4926	0.121	ppbv #	49
67) sec-Butylbenzene	17.32	105	486942	0.940	ppbv	100
69) p-Isopropyltoluene	17.67	119	698842	1.727	ppbv	96
70) n-Butylbenzene	18.54	91	16299	0.039	ppbv #	33
71) 2-Chlorotoluene	15.78	91	297775	0.939	ppbv	71
72) 4-Ethyltoluene	15.85	105	486986	1.414	ppbv #	56
73) 1,3,5-Trimethylbenzene	16.02	105	1505982	4.685	ppbv	99
74) 1,2,4-Trimethylbenzene	16.78	105	1971728	5.732	ppbv #	71
75) 1,3-Dichlorobenzene	17.01	146	18147	0.094	ppbv #	1
76) 1,4-Dichlorobenzene	17.15	146	48216	0.251	ppbv #	22
77) 1,2-Dichlorobenzene	17.82	146	23349	0.128	ppbv #	19
79) Naphthalene	22.20	128	169073	0.842	ppbv #	94
80) Naphthalene,2-methyl-	24.99	142	2451	0.062	ppbv #	32

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.01 min

Lab File: VL036759.D

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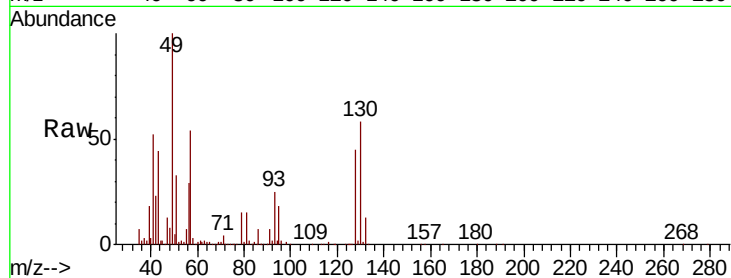
Tot Ion: 49 Resp: 1258377

Ion Ratio Lower Upper

49 100

128 46.5 23.5 70.6

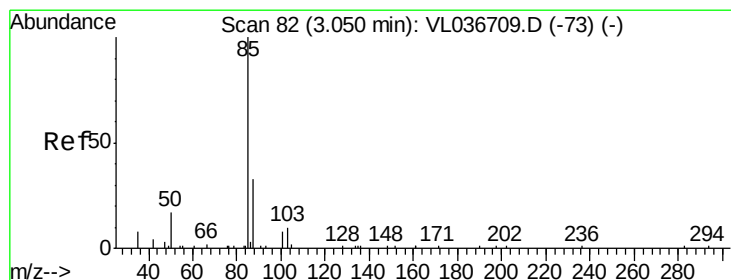
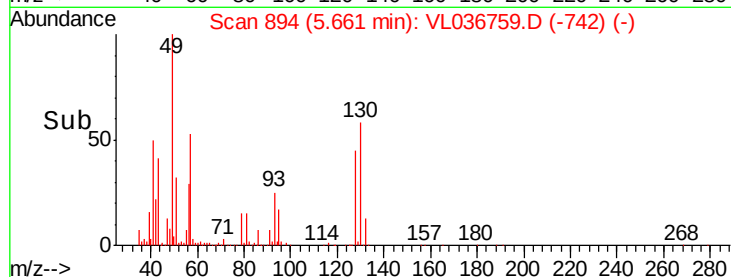
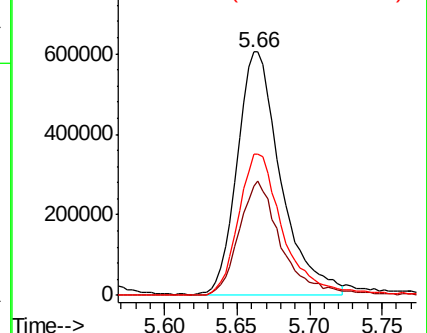
130 60.8 29.1 87.4



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: 0.153 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.01 min

Lab File: VL036759.D

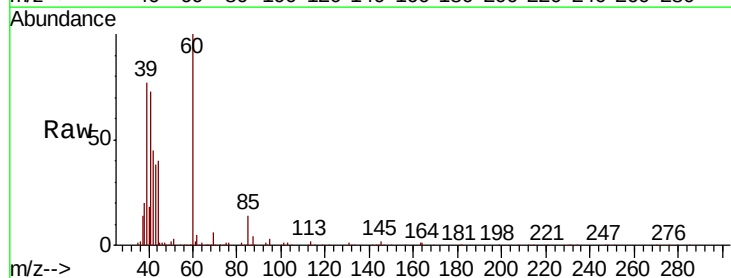
Acq: 8 Apr 2021 20:36

Tgt Ion: 85 Resp: 31497

Ion Ratio Lower Upper

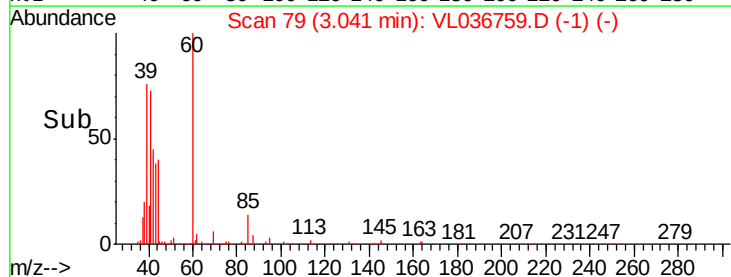
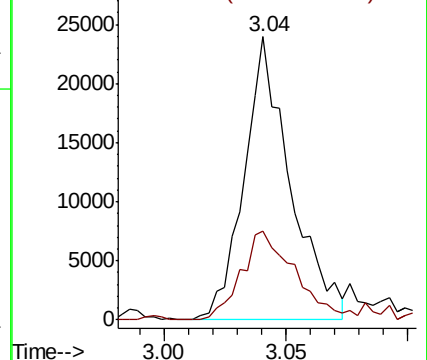
85 100

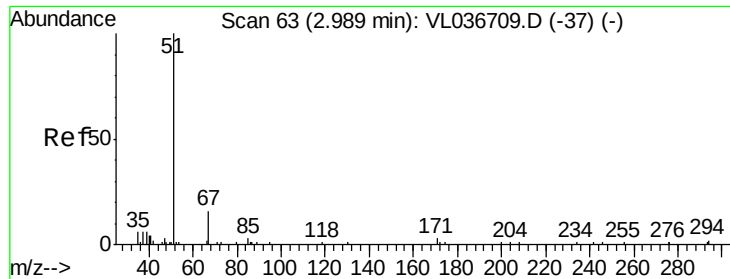
87 31.3 27.8 41.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.472 ppbv

RT: 2.98 min Scan# 60

Delta R.T. -0.01 min

Lab File: VL036759.D

Acq: 8 Apr 2021 20:36

Instrument :

MSVOA_L

ClientSampleId :

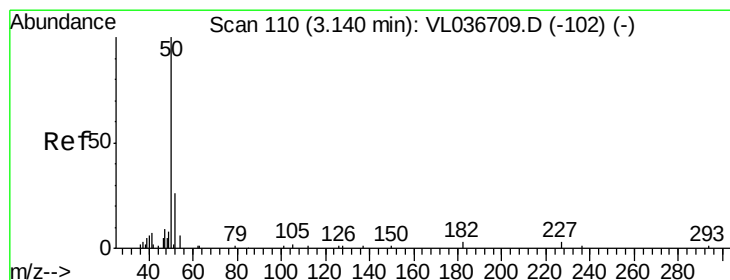
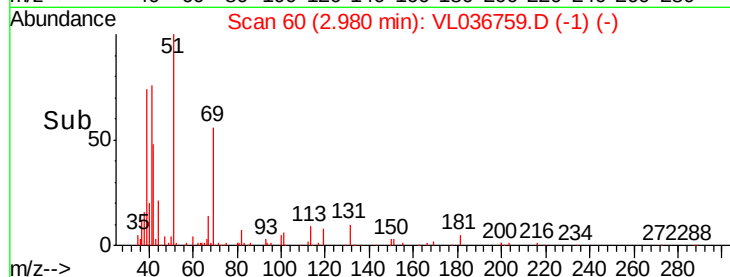
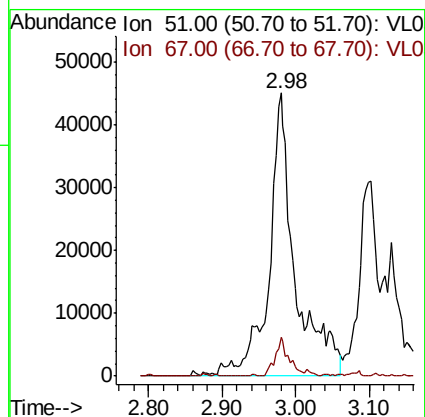
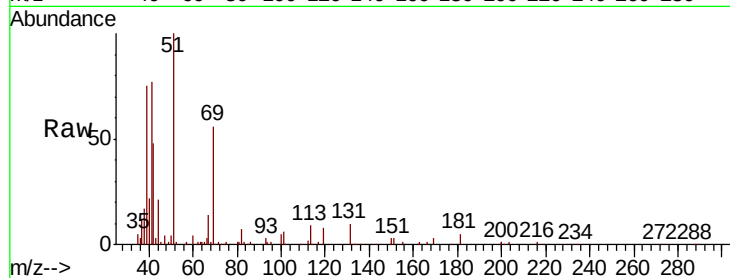
SG-3

Tot Ion: 51 Resp: 111023

Ion Ratio Lower Upper

51 100

67 7.8 14.7 22.1#



#4

Chloromethane

Concen: 0.475 ppbv

RT: 3.13 min Scan# 108

Delta R.T. -0.01 min

Lab File: VL036759.D

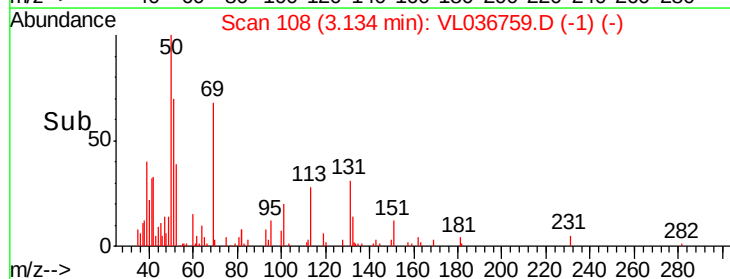
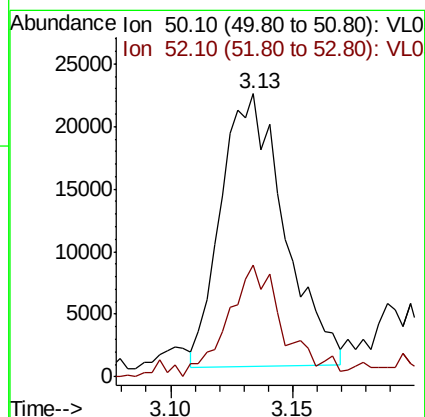
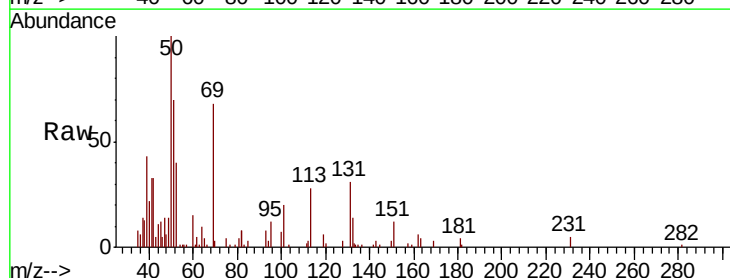
Acq: 8 Apr 2021 20:36

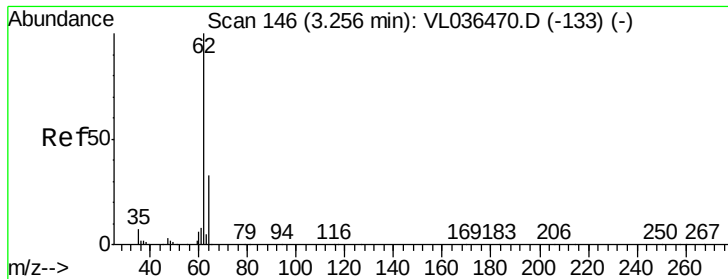
Tgt Ion: 50 Resp: 39450

Ion Ratio Lower Upper

50 100

52 40.9 27.0 40.6#





#5

Vinyl Chloride

Concen: 13.245 ppbv

RT: 3.25 min Scan# 144

Delta R.T. -0.01 min

Lab File: VL036759.D

Acq: 8 Apr 2021 20:36

Instrument :

MSVOA_L

ClientSampleId :

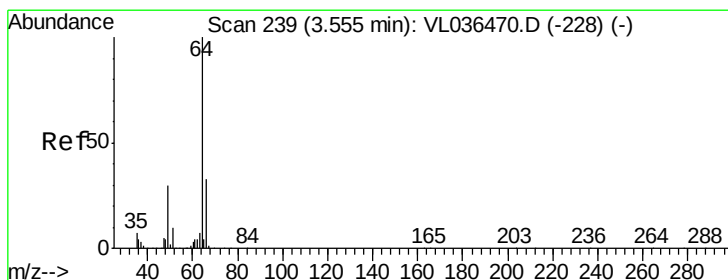
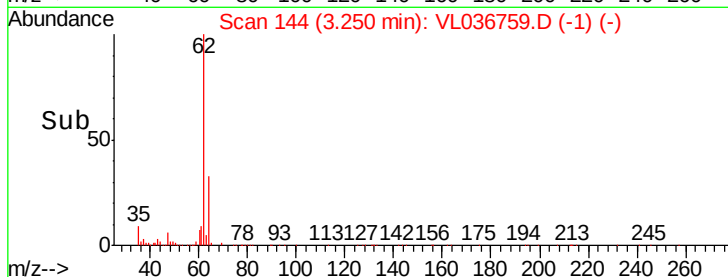
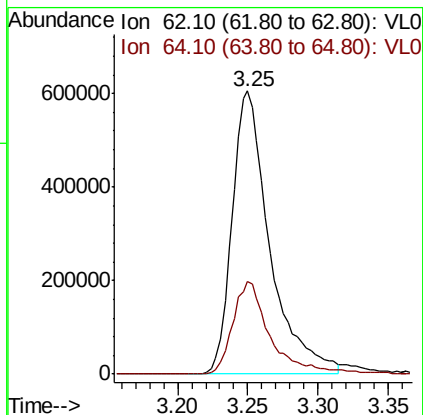
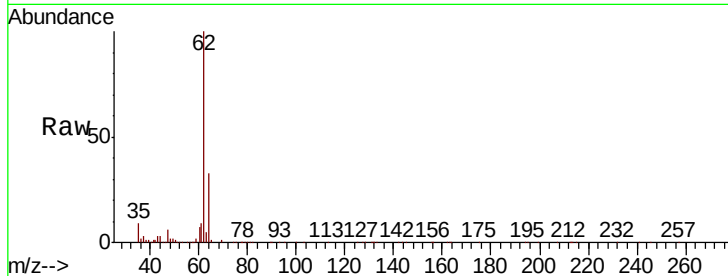
SG-3

Tot Ion: 62 Resp: 1130969

Ion Ratio Lower Upper

62 100

64 32.6 26.4 39.6



#7

Chloroethane

Concen: 12.371 ppbv

RT: 3.25 min Scan# 144

Delta R.T. -0.31 min

Lab File: VL036759.D

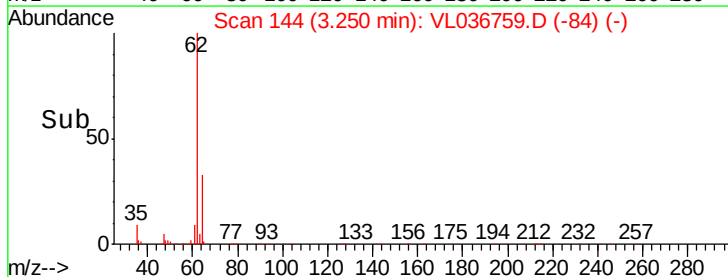
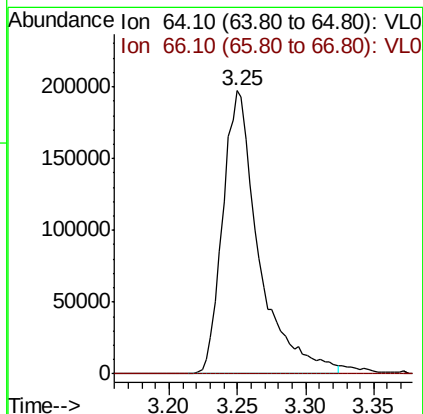
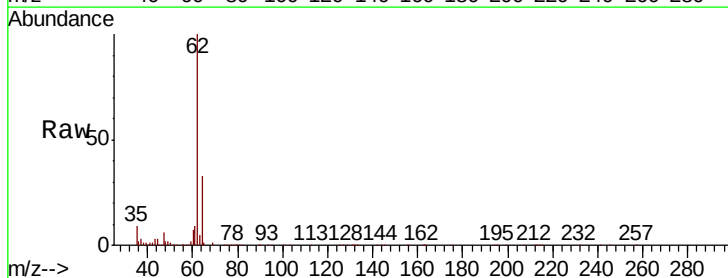
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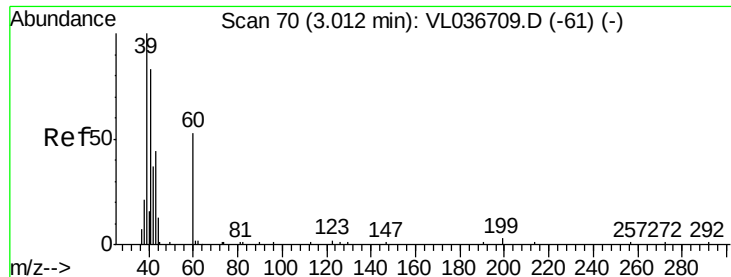
Tgt Ion: 64 Resp: 362984

Ion Ratio Lower Upper

64 100

66 0.0 26.2 39.2#





#9

Propene

Concen: 25.353 ppbv

RT: 3.00 min Scan# 67

Delta R.T. -0.01 min

Lab File: VL036759.D

Acq: 8 Apr 2021 20:36

Instrument :

MSVOA_L

ClientSampleId :

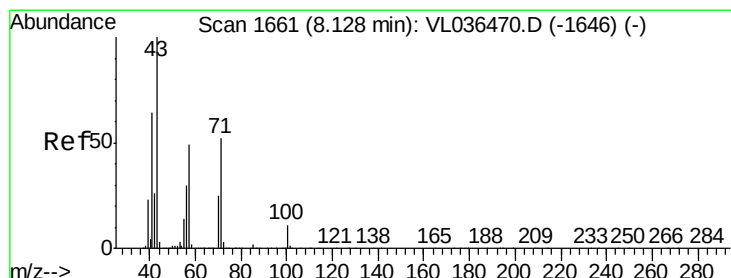
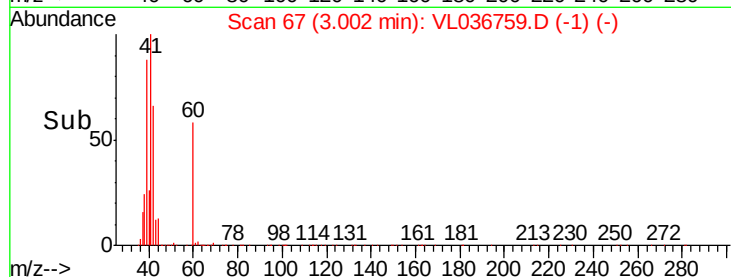
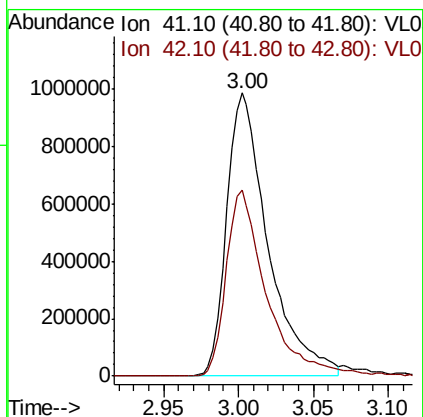
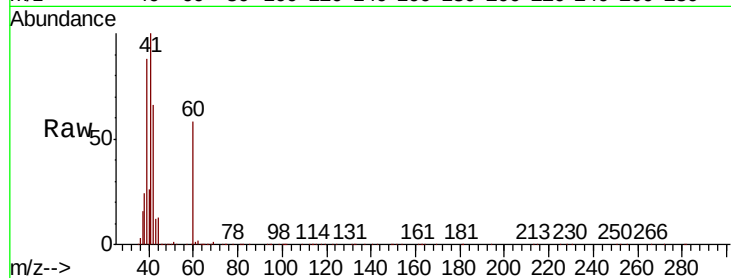
SG-3

Tot Ion: 41 Resp: 1900261

Ion Ratio Lower Upper

41 100

42 64.4 57.0 85.4



#10

Heptane

Concen: 5.872 ppbv

RT: 8.12 min Scan# 1660

Delta R.T. -0.00 min

Lab File: VL036759.D

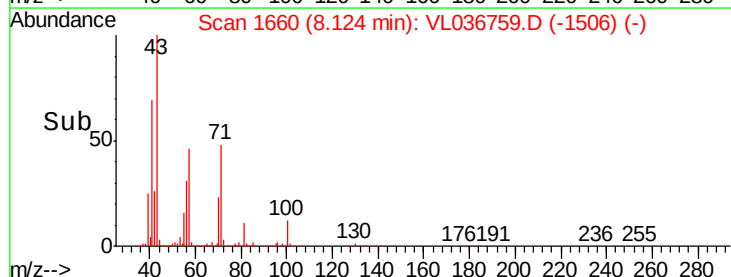
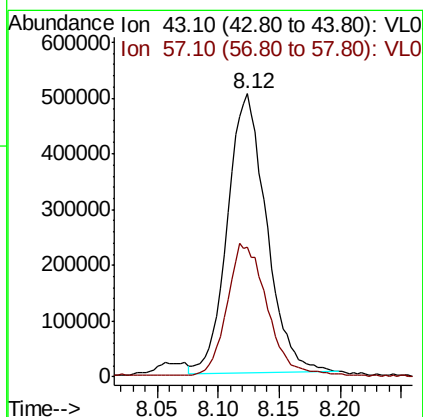
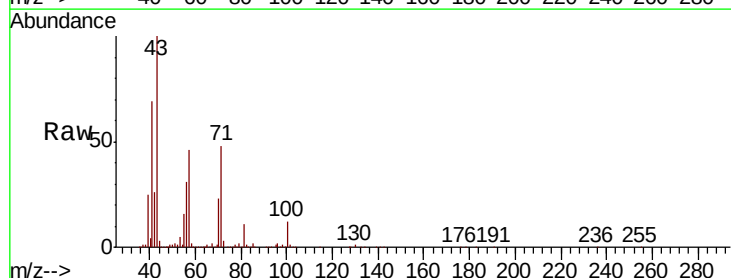
Acq: 8 Apr 2021 20:36

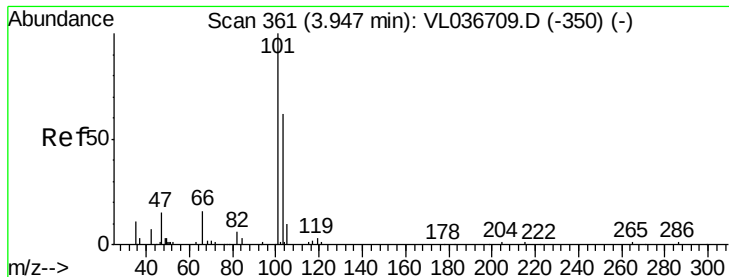
Tgt Ion: 43 Resp: 1121148

Ion Ratio Lower Upper

43 100

57 48.7 39.0 58.6

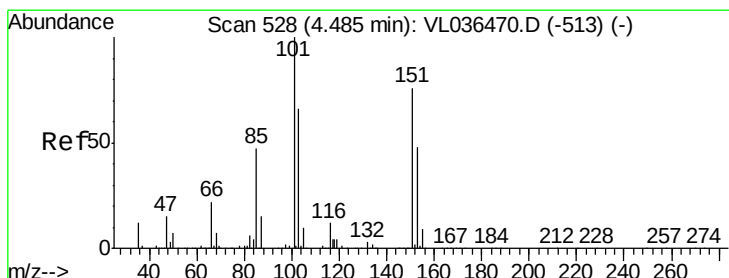
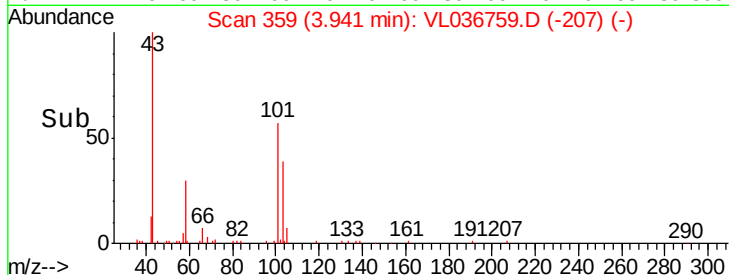
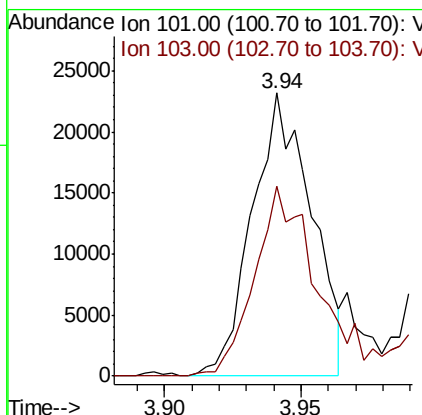
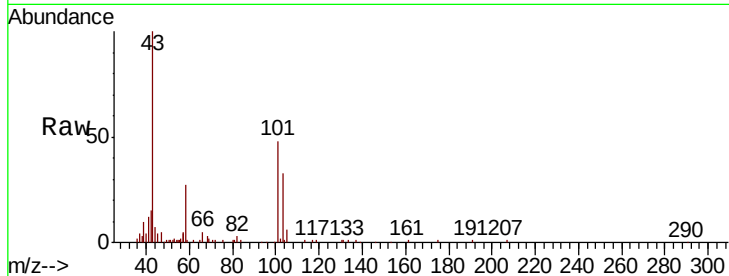




#11
 Trichlorofluoromethane
 Concen: 0.167 ppbv
 RT: 3.94 min Scan# 359
 Delta R.T. -0.01 min
 Lab File: VL036759.D
 Acq: 8 Apr 2021 20:36

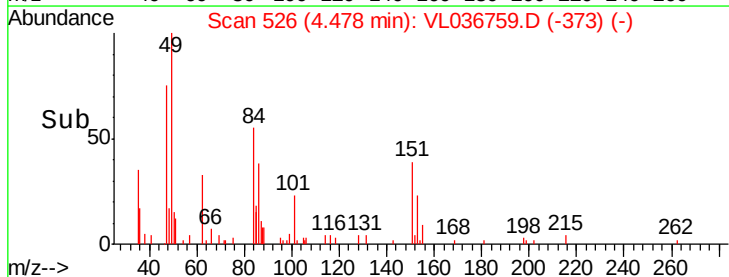
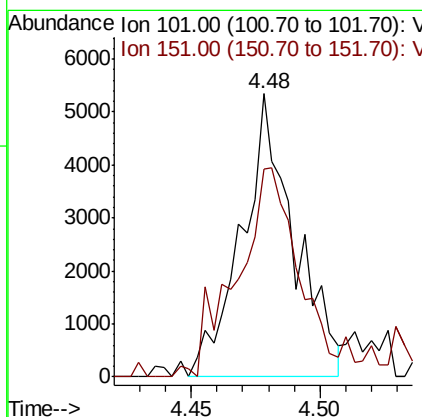
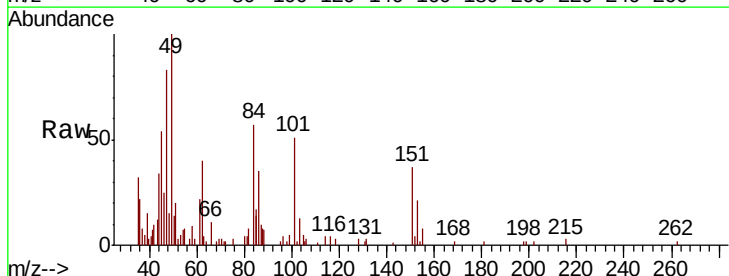
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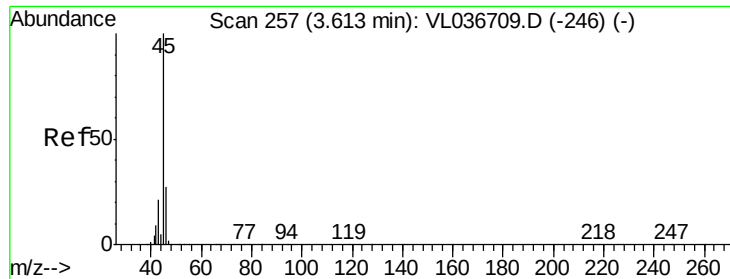
Tot Ion:101 Resp: 34908
 Ion Ratio Lower Upper
 101 100
 103 67.3 52.5 78.7



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.057 ppbv
 RT: 4.48 min Scan# 526
 Delta R.T. -0.01 min
 Lab File: VL036759.D
 Acq: 8 Apr 2021 20:36

Tgt Ion:101 Resp: 7563
 Ion Ratio Lower Upper
 101 100
 151 93.4 60.9 91.3#

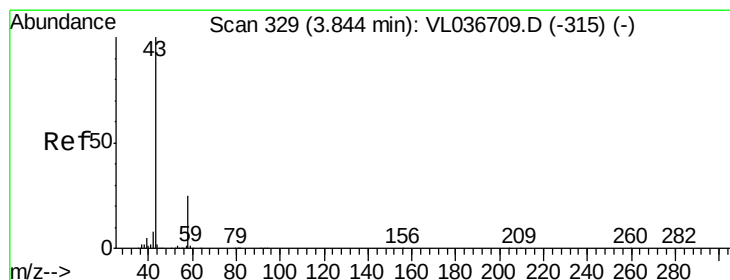
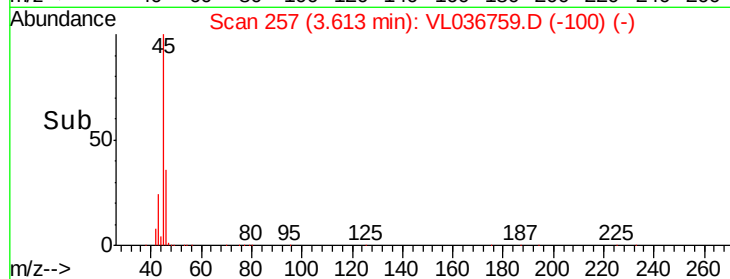
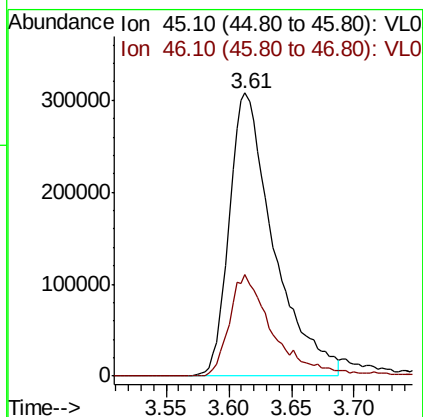
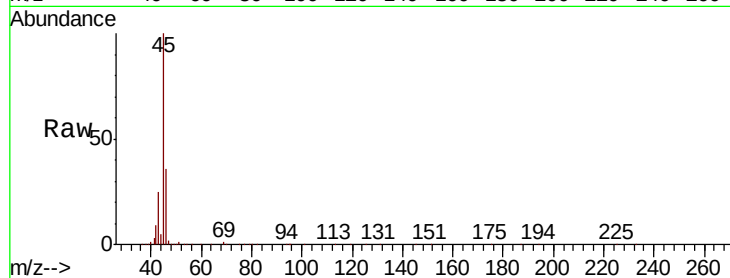




#13
Ethanol
Concen: 84.958 ppbv
RT: 3.61 min Scan# 257
Delta R.T. 0.01 min
Lab File: VL036759.D
Acq: 8 Apr 2021 20:36

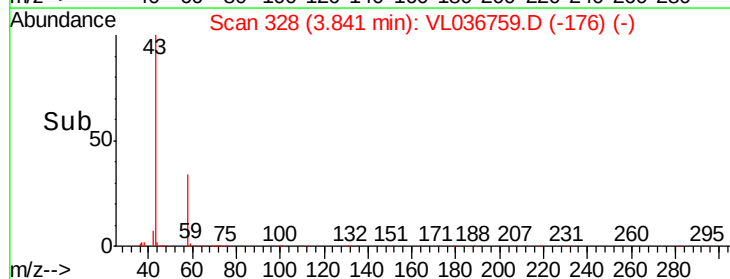
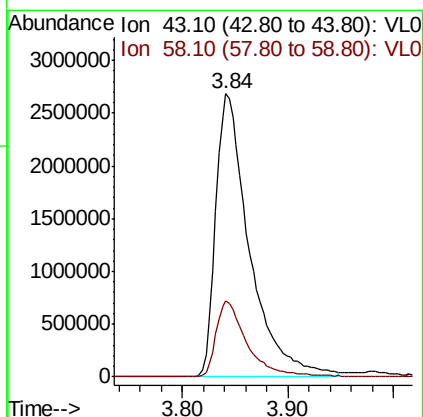
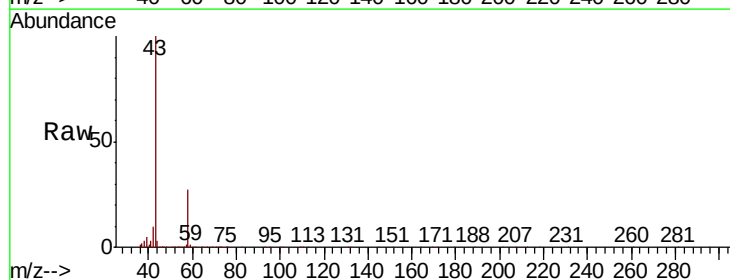
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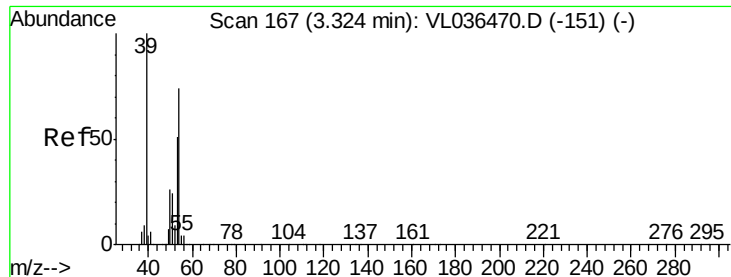
Tot Ion: 45 Resp: 758302
Ion Ratio Lower Upper
45 100
46 36.0 16.6 66.2



#15
Acetone
Concen: 48.003 ppbv
RT: 3.84 min Scan# 328
Delta R.T. -0.01 min
Lab File: VL036759.D
Acq: 8 Apr 2021 20:36

Tgt Ion: 43 Resp: 5945352
Ion Ratio Lower Upper
43 100
58 25.3 21.2 31.8

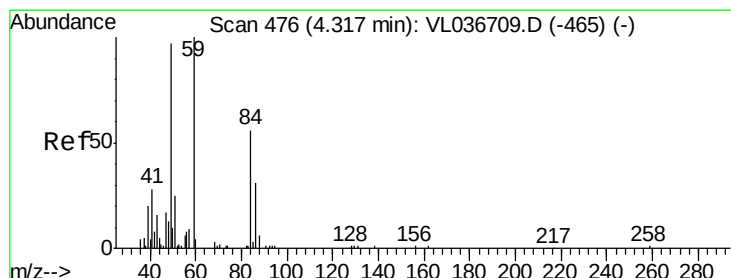
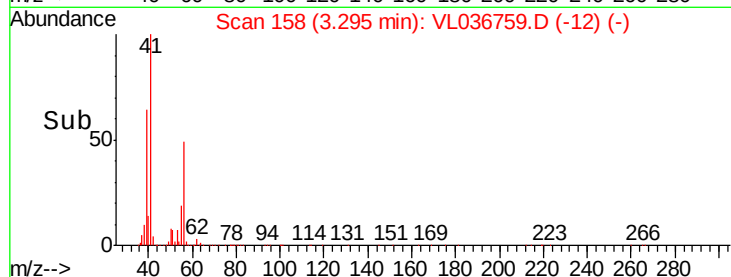
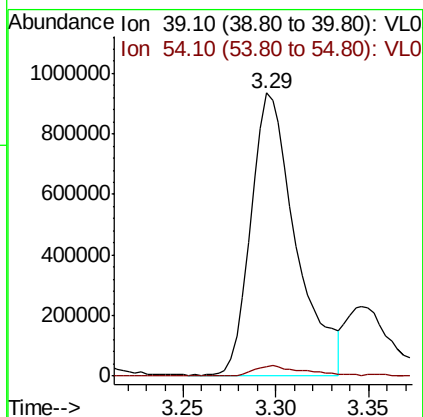
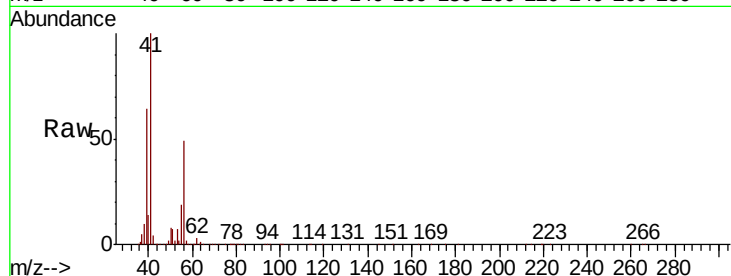




#16
1,3-Butadiene
Concen: 18.277 ppbv
RT: 3.29 min Scan# 158
Delta R.T. -0.03 min
Lab File: VL036759.D
Acq: 8 Apr 2021 20:36

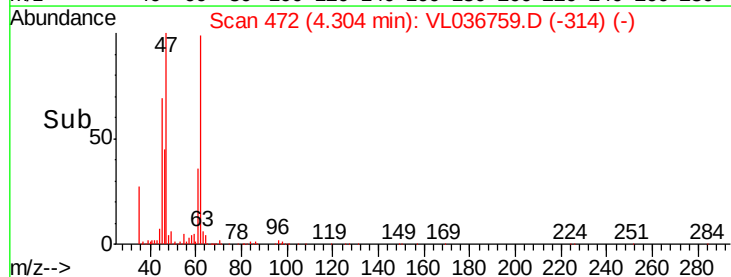
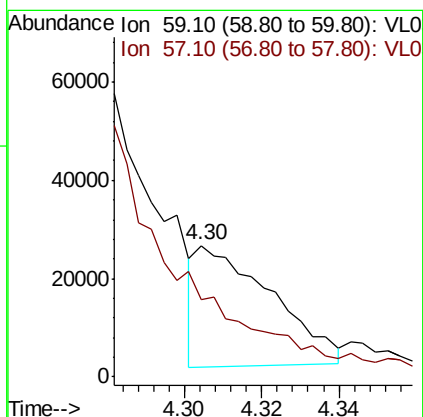
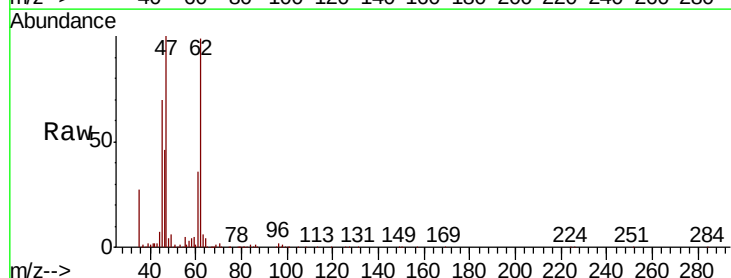
Instrument :
MSVOA_L
ClientSampleId :
SG-3

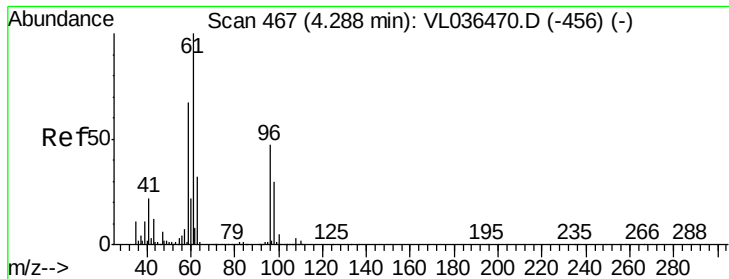
Tot Ion: 39 Resp: 1575935
Ion Ratio Lower Upper
39 100
54 4.7 58.8 88.2#



#17
tert-Butyl alcohol
Concen: 0.307 ppbv
RT: 4.30 min Scan# 472
Delta R.T. 0.01 min
Lab File: VL036759.D
Acq: 8 Apr 2021 20:36

Tgt Ion: 59 Resp: 33046
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#

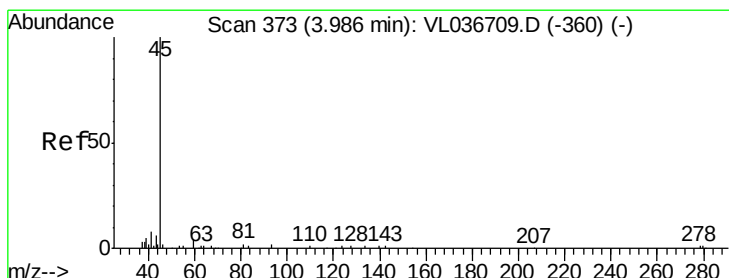
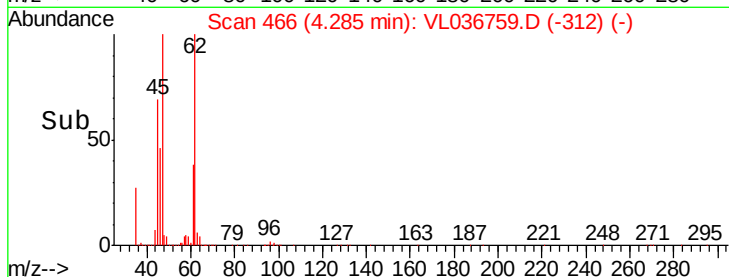
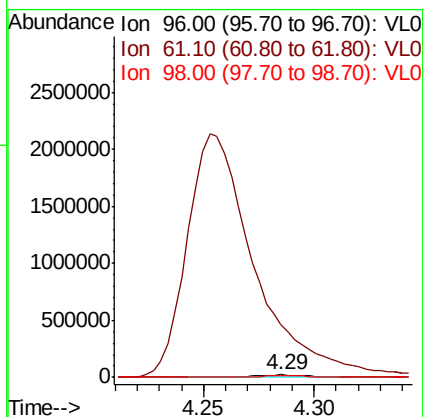
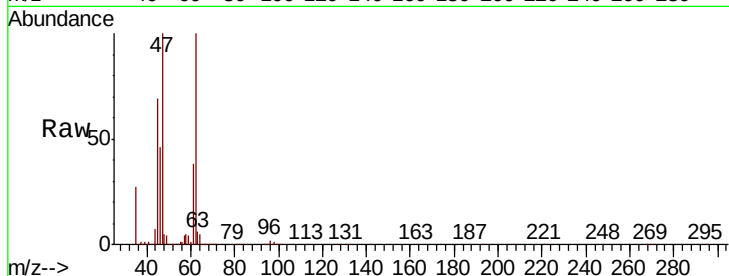




#18
 1,1-Dichloroethene
 Concen: 0.628 ppbv
 RT: 4.29 min Scan# 466
 Delta R.T. -0.00 min
 Lab File: VL036759.D
 Acq: 8 Apr 2021 20:36

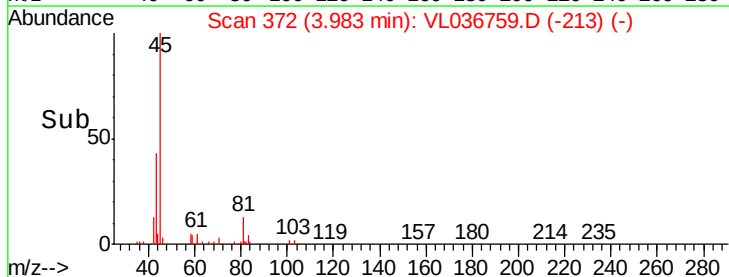
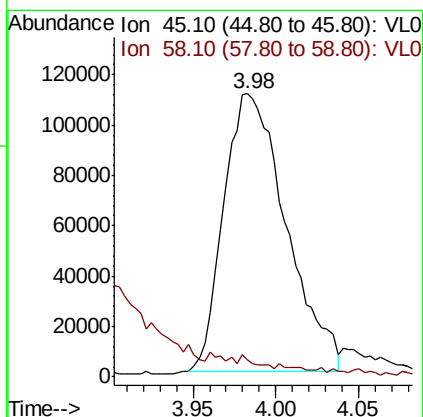
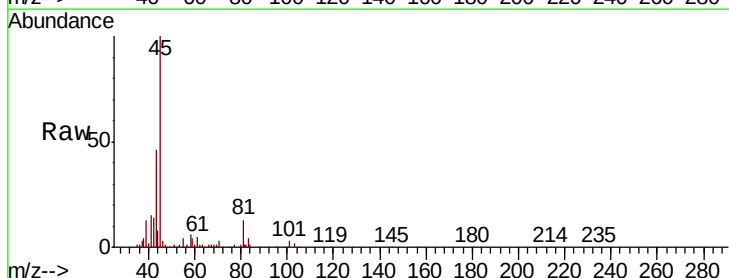
Instrument :
 MSVOA_L
 ClientSampleId :
 SG-3

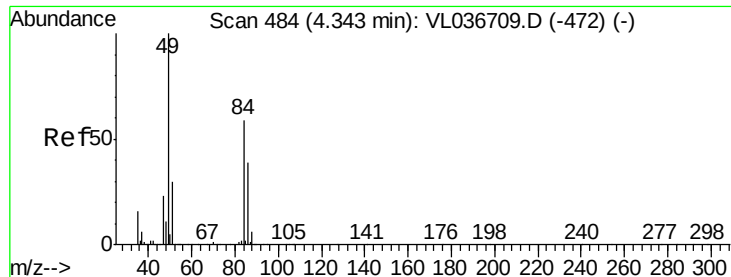
Tot Ion: 96 Resp: 37368
 Ion Ratio Lower Upper
 96 100
 61 1560.0 168.6 253.0#
 98 61.8 50.8 76.2



#19
 Isopropyl Alcohol
 Concen: 4.249 ppbv
 RT: 3.98 min Scan# 372
 Delta R.T. 0.01 min
 Lab File: VL036759.D
 Acq: 8 Apr 2021 20:36

Tgt Ion: 45 Resp: 289522
 Ion Ratio Lower Upper
 45 100
 58 520.3 2.9 4.3#



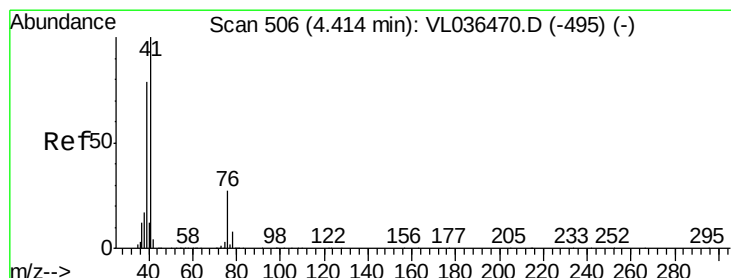
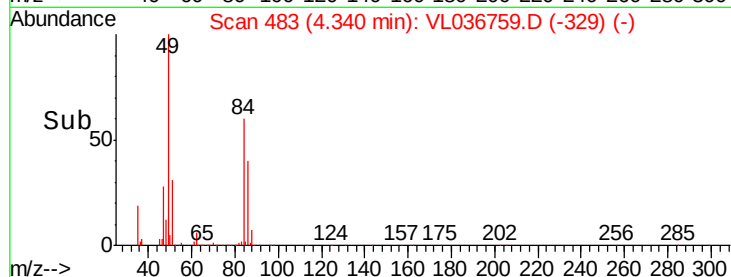
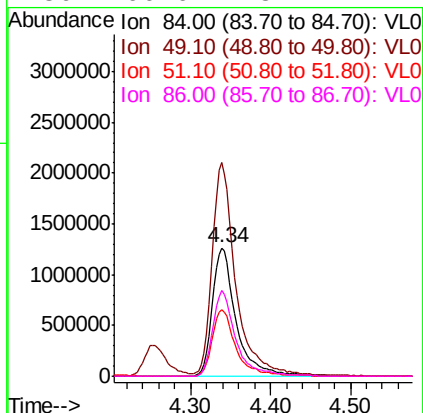
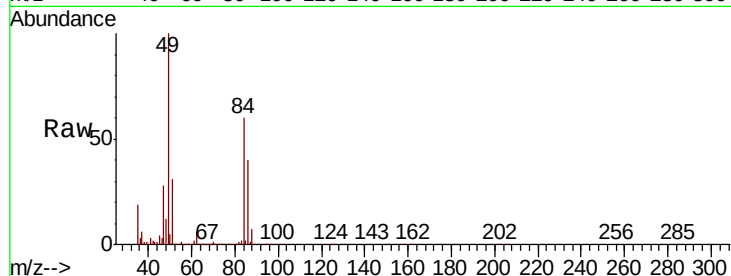


#20
Methylene Chloride
Concen: 44.880 ppbv
RT: 4.34 min Scan# 483
Delta R.T. -0.00 min
Lab File: VL036759.D
Acq: 8 Apr 2021 20:36

Instrument :
MSVOA_L
ClientSampleId :
SG-3

Tot Ion: 84 Resp: 2602548

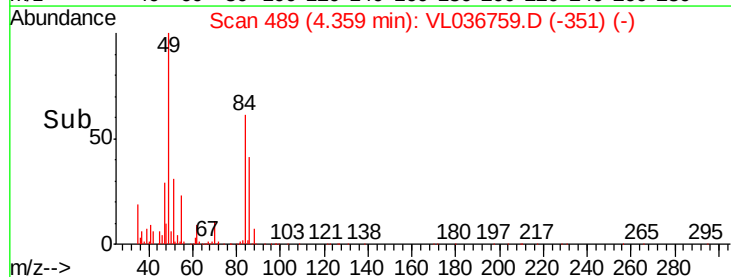
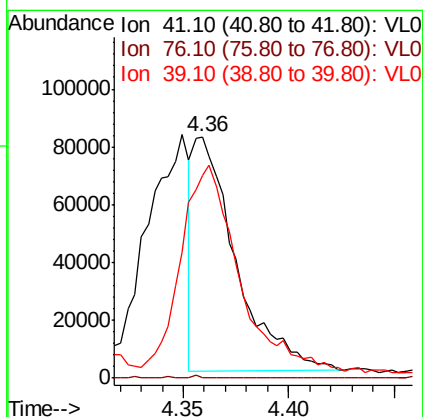
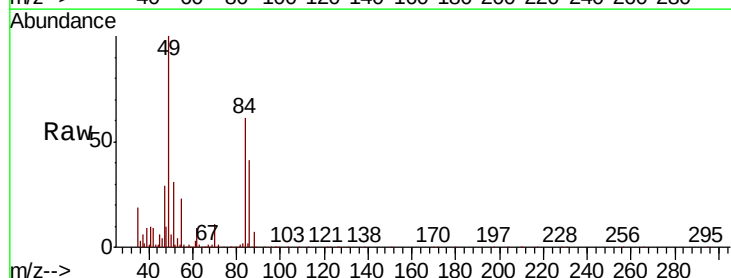
Ion	Ratio	Lower	Upper
84	100		
49	165.5	122.9	184.3
51	52.0	36.9	55.3
86	66.6	48.2	72.4

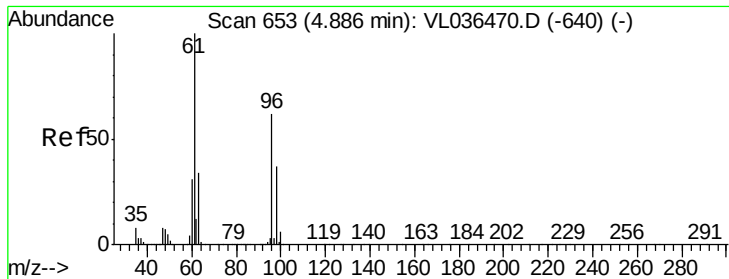


#21
Allyl Chloride
Concen: 1.143 ppbv
RT: 4.36 min Scan# 489
Delta R.T. -0.05 min
Lab File: VL036759.D
Acq: 8 Apr 2021 20:36

Tgt Ion: 41 Resp: 112847

Ion	Ratio	Lower	Upper
41	100		
76	0.0	22.9	34.3#
39	122.9	67.3	100.9#





#22

trans-1,2-Dichloroethene

Concen: 6.077 ppbv

RT: 4.88 min Scan# 651

Delta R.T. -0.01 min

Lab File: VL036759.D

Acq: 8 Apr 2021 20:36

Instrument :

MSVOA_L

ClientSampleId :

SG-3

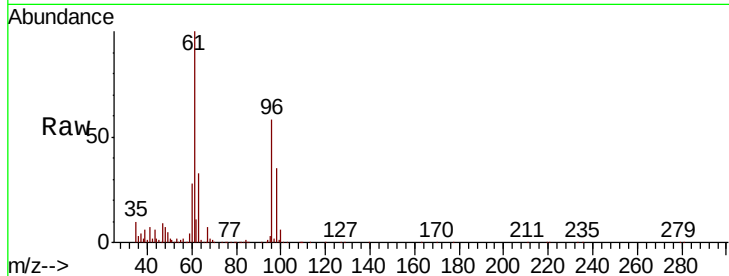
Tot Ion: 96 Resp: 335142

Ion Ratio Lower Upper

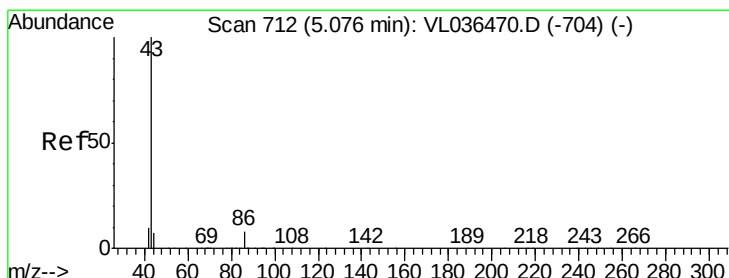
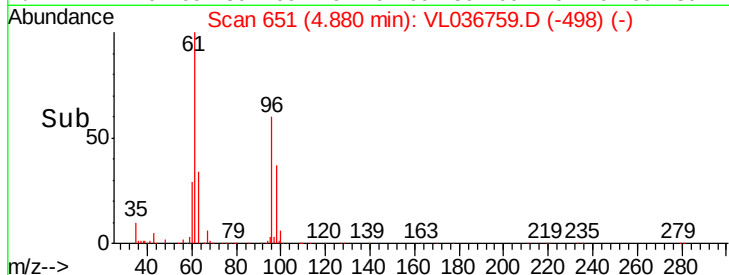
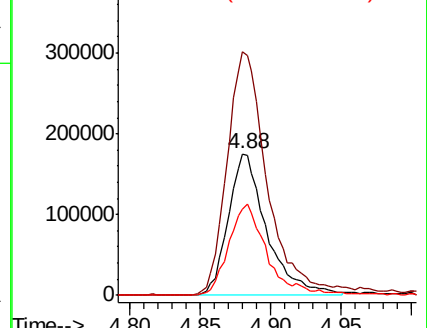
96 100

61 171.2 129.4 194.0

98 60.4 48.2 72.4



Abundance Ion 96.00 (95.70 to 96.70): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 98.00 (97.70 to 98.70): VL0



#23

Vinyl Acetate

Concen: 0.729 ppbv

RT: 5.05 min Scan# 704

Delta R.T. -0.03 min

Lab File: VL036759.D

Acq: 8 Apr 2021 20:36

Tgt Ion: 43 Resp: 154418

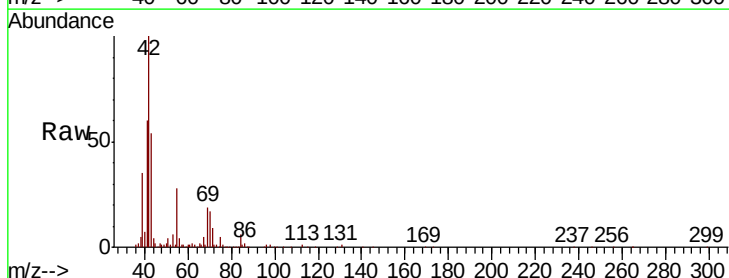
Ion Ratio Lower Upper

43 100

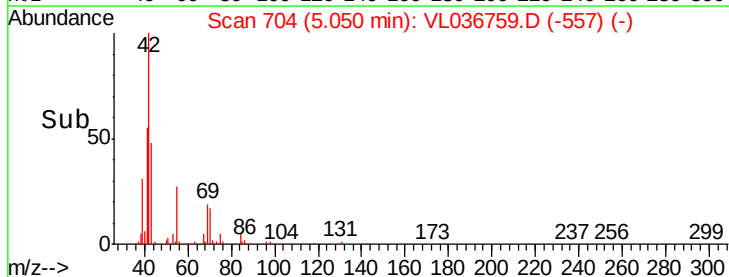
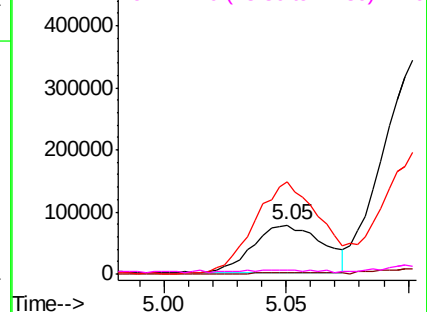
86 2.7 5.4 8.0#

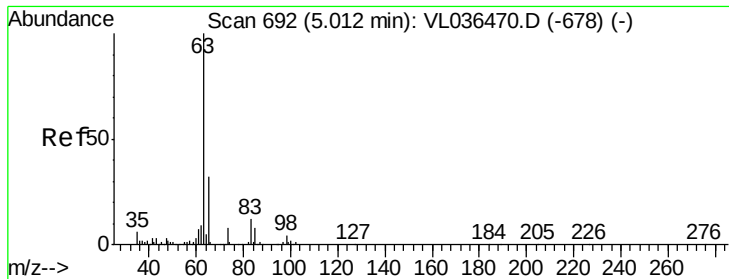
42 187.7 8.5 12.7#

44 2.9 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





#24

1,1-Dichloroethane

Concen: 0.112 ppbv

RT: 5.01 min Scan# 690

Delta R.T. -0.01 min

Lab File: VL036759.D

Acq: 8 Apr 2021 20:36

Instrument :

MSVOA_L

ClientSampleId :

SG-3

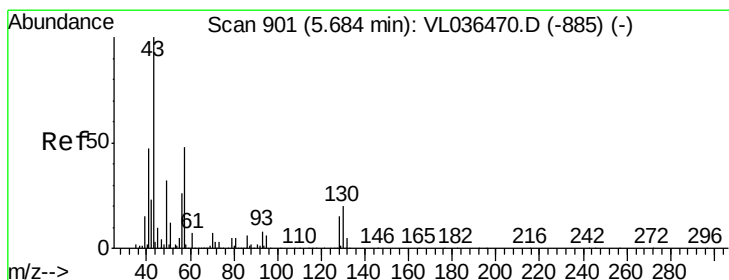
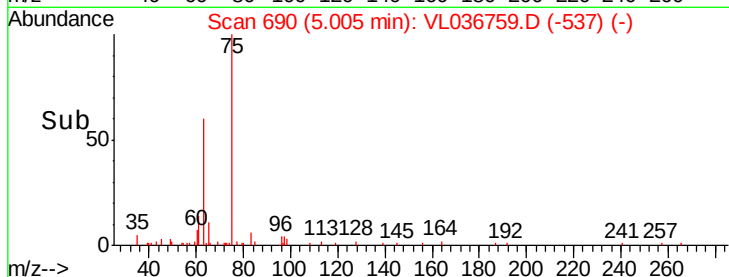
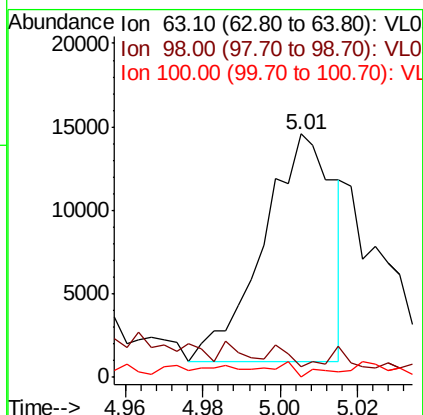
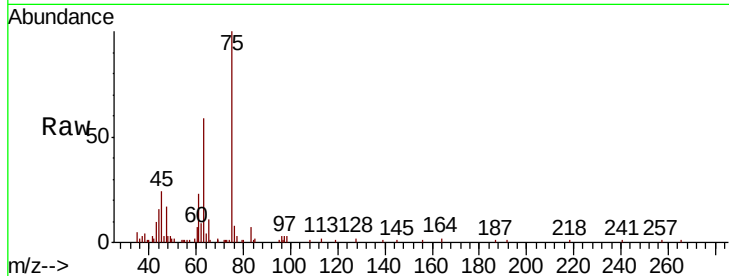
Tot Ion: 63 Resp: 17271

Ion Ratio Lower Upper

63 100

98 0.0 2.1 6.2#

100 0.0 0.9 2.8#



#25

Ethyl Acetate

Concen: 8.046 ppbv

RT: 5.68 min Scan# 901

Delta R.T. -0.00 min

Lab File: VL036759.D

Acq: 8 Apr 2021 20:36

Tgt Ion: 43 Resp: 2369109

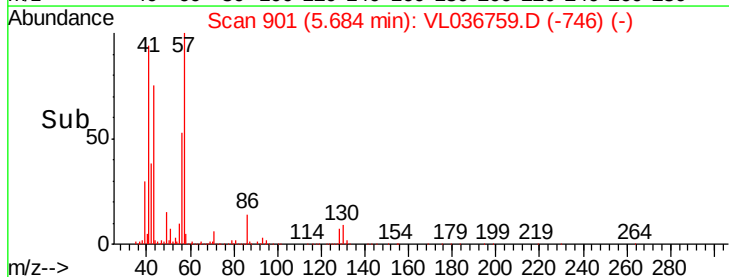
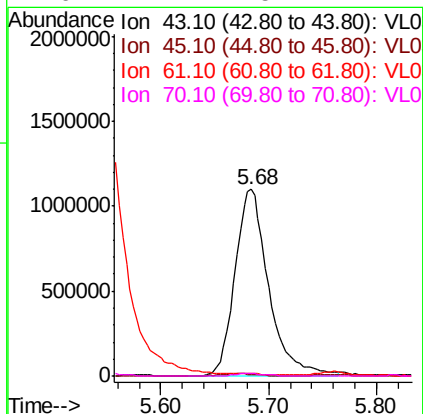
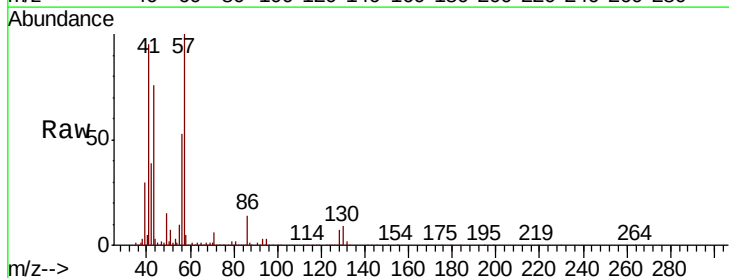
Ion Ratio Lower Upper

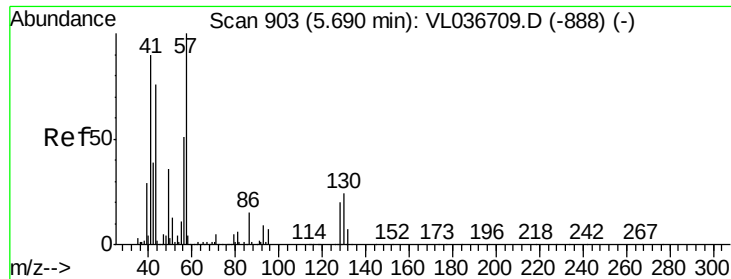
43 100

45 1.4 7.9 11.9#

61 0.0 7.4 11.2#

70 1.4 5.1 7.7#

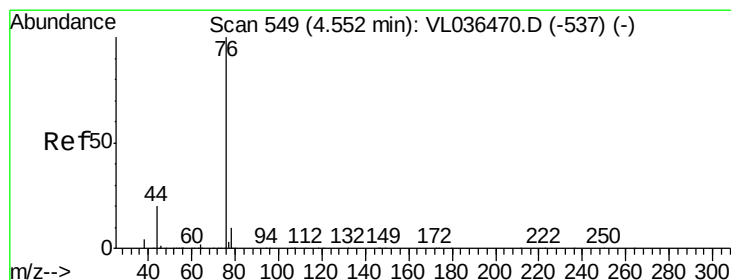
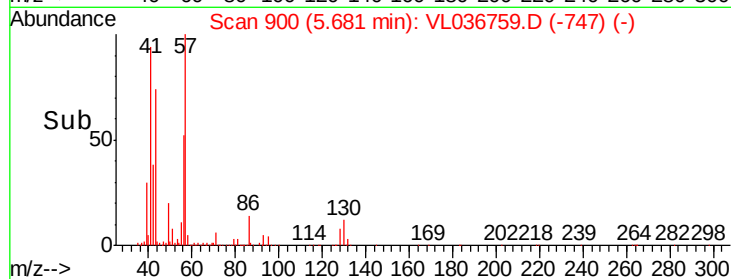
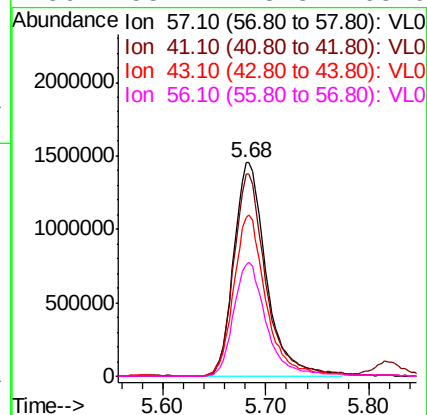
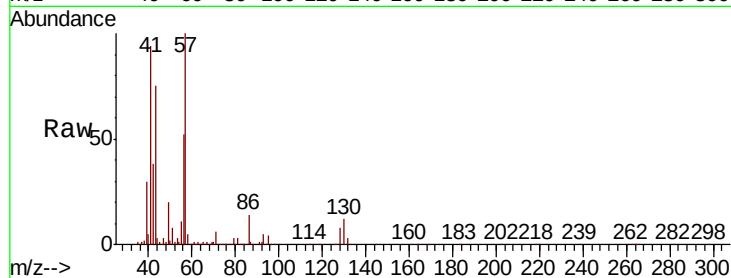




#26
Hexane
Concen: 23.368 ppbv
RT: 5.68 min Scan# 900
Delta R.T. -0.01 min
Lab File: VL036759.D
Acq: 8 Apr 2021 20:36

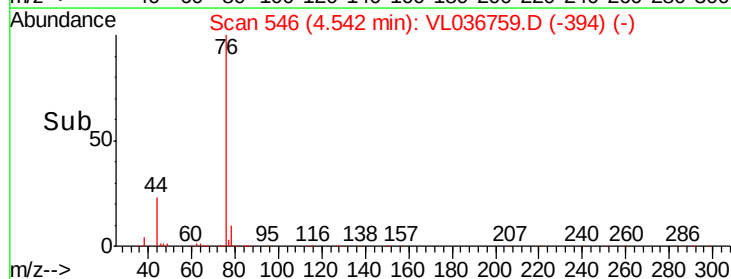
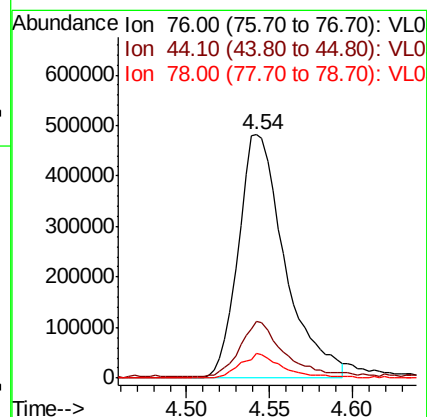
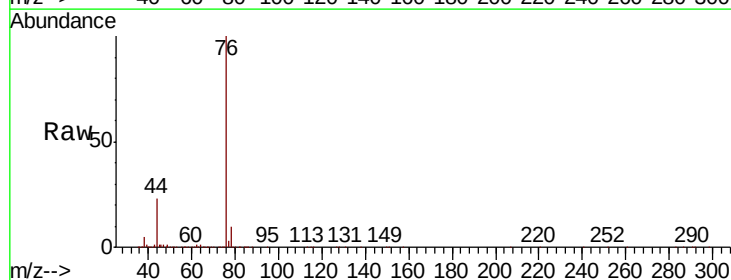
Instrument :
MSVOA_L
ClientSampleId :
SG-3

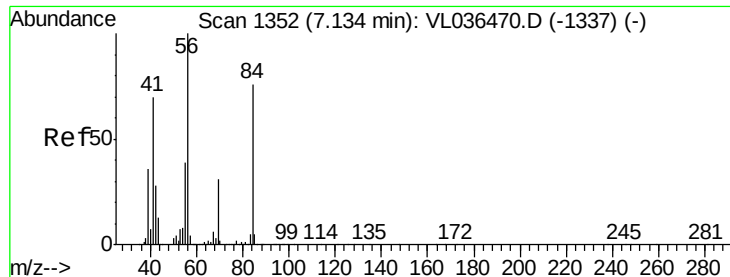
Tot Ion: 57 Resp: 3193075
Ion Ratio Lower Upper
57 100
41 94.0 77.2 115.8
43 75.0 173.8 260.6#
56 53.7 43.8 65.6



#27
Carbon Disulfide
Concen: 6.988 ppbv
RT: 4.54 min Scan# 546
Delta R.T. -0.01 min
Lab File: VL036759.D
Acq: 8 Apr 2021 20:36

Tgt Ion: 76 Resp: 940640
Ion Ratio Lower Upper
76 100
44 22.5 17.5 26.3
78 9.6 8.6 13.0

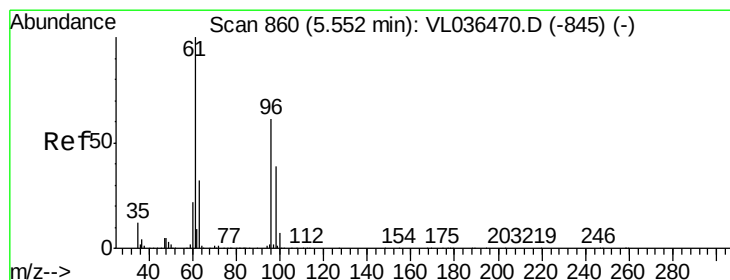
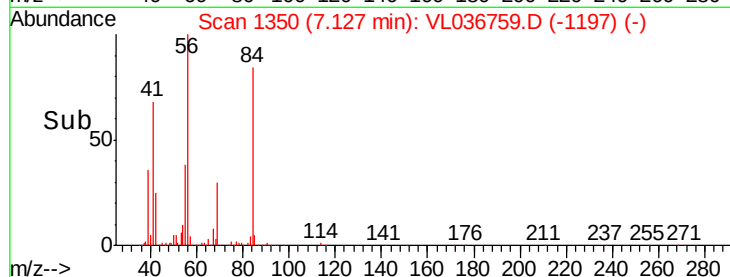
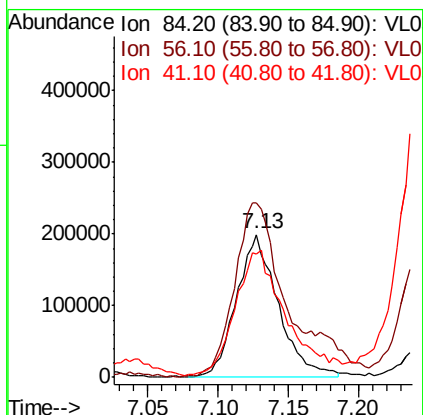
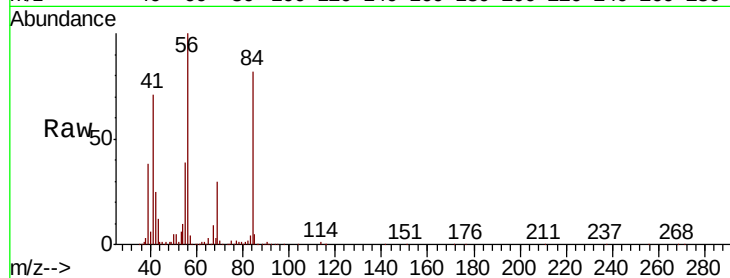




#30
Cyclohexane
Concen: 3.671 ppbv
RT: 7.13 min Scan# 1350
Delta R.T. -0.01 min
Lab File: VL036759.D
Acq: 8 Apr 2021 20:36

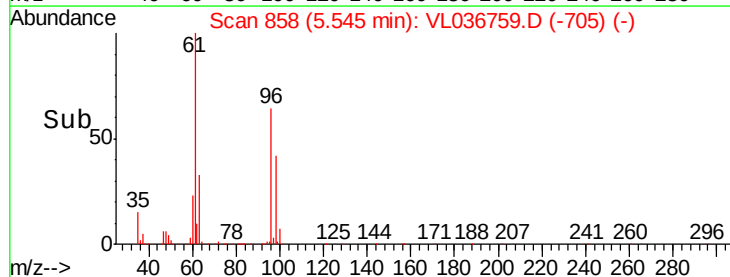
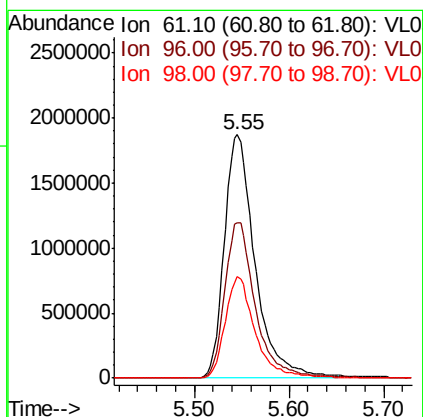
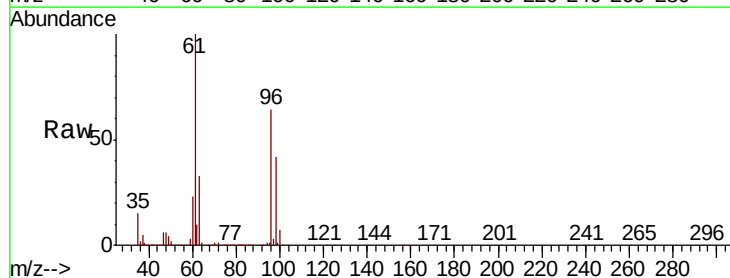
Instrument :
MSVOA_L
ClientSampleId :
SG-3

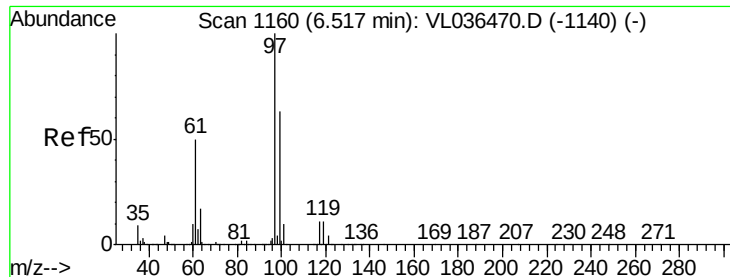
Tot Ion: 84 Resp: 406798
Ion Ratio Lower Upper
84 100
56 159.7 114.6 171.8
41 108.3 75.3 112.9



#31
cis-1,2-Dichloroethene
Concen: 31.881 ppbv
RT: 5.55 min Scan# 858
Delta R.T. -0.01 min
Lab File: VL036759.D
Acq: 8 Apr 2021 20:36

Tgt Ion: 61 Resp: 4213577
Ion Ratio Lower Upper
61 100
96 63.9 48.7 73.1
98 41.7 31.4 47.0





#32

1,1,1-Trichloroethane

Concen: 0.049 ppbv

RT: 6.50 min Scan# 1156

Delta R.T. -0.01 min

Lab File: VL036759.D

Acq: 8 Apr 2021 20:36

Instrument :

MSVOA_L

ClientSampled :

SG-3

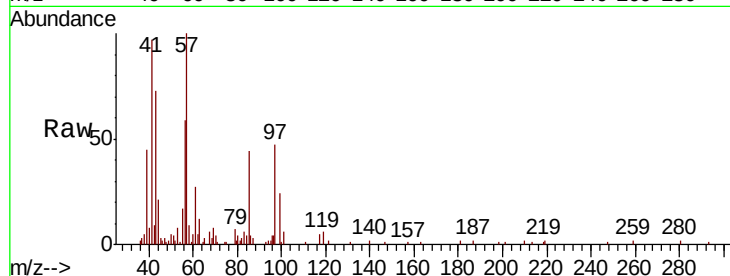
Tot Ion: 97 Resp: 10812

Ion Ratio Lower Upper

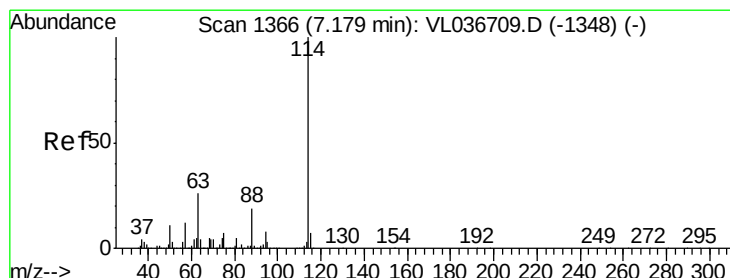
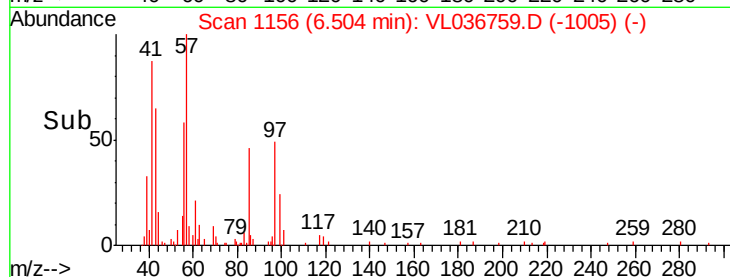
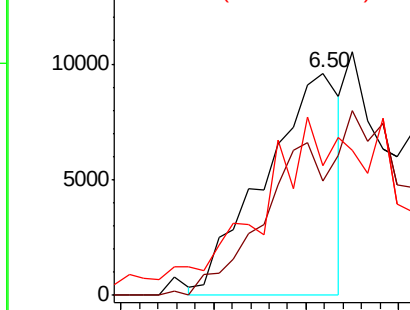
97 100

99 0.0 51.4 77.0#

61 143.7 40.6 60.8#



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 min Scan# 1365

Delta R.T. -0.00 min

Lab File: VL036759.D

Acq: 8 Apr 2021 20:36

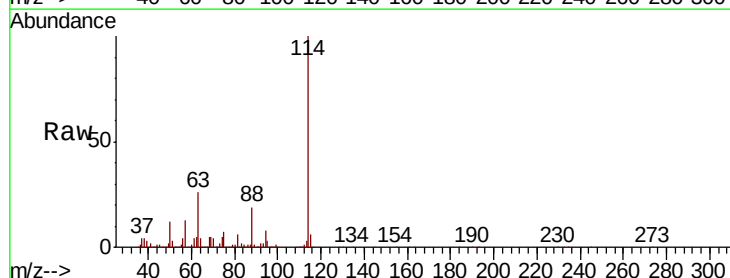
Tgt Ion: 114 Resp: 3254482

Ion Ratio Lower Upper

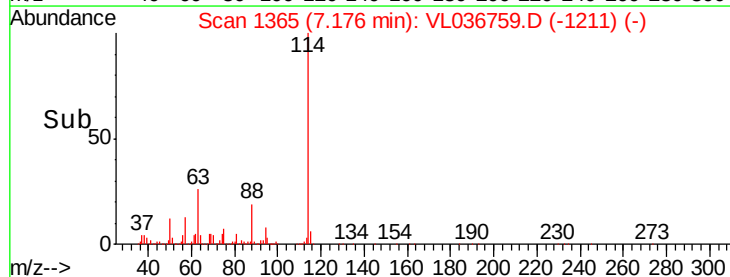
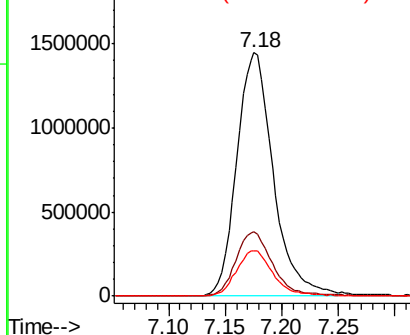
114 100

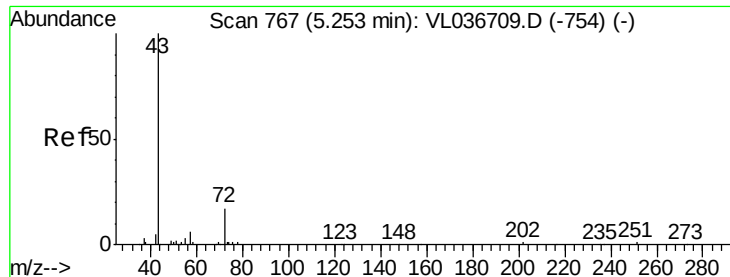
63 26.9 22.4 33.6

88 18.8 15.4 23.0



Abundance Ion 114.10 (113.80 to 114.80): V
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0





#34

2-Butanone

Concen: 4.277 ppbv

RT: 5.24 min Scan# 764

Delta R.T. -0.01 min

Lab File: VL036759.D

Acq: 8 Apr 2021 20:36

Instrument :

MSVOA_L

ClientSampleId :

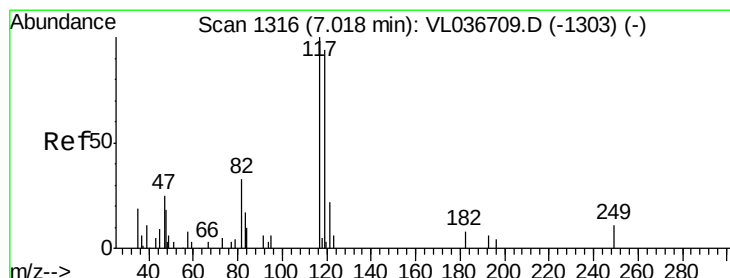
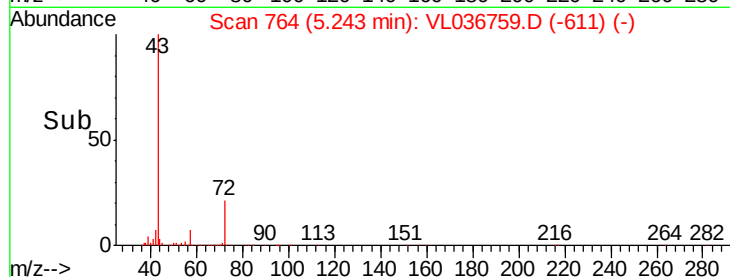
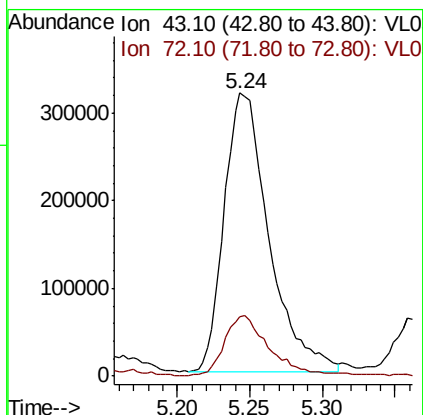
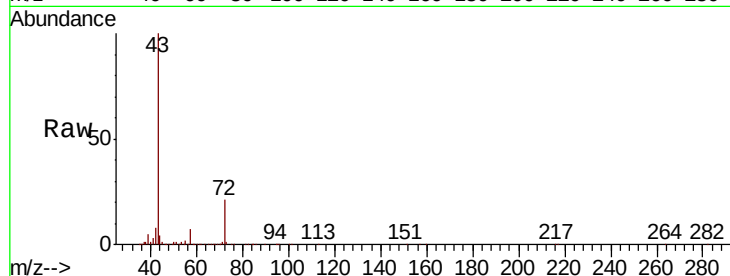
SG-3

Tot Ion: 43 Resp: 679390

Ion Ratio Lower Upper

43 100

72 22.2 17.0 25.6



#35

Carbon Tetrachloride

Concen: 0.060 ppbv

RT: 7.01 min Scan# 1315

Delta R.T. -0.01 min

Lab File: VL036759.D

Acq: 8 Apr 2021 20:36

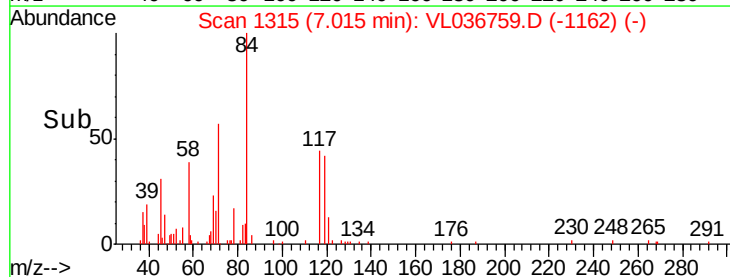
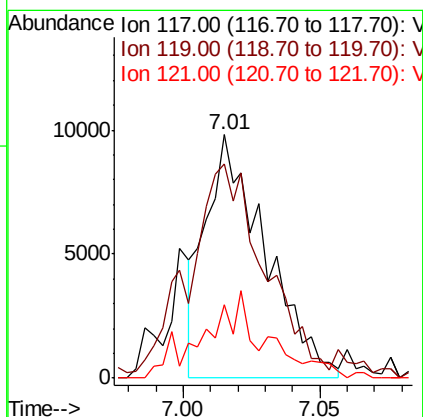
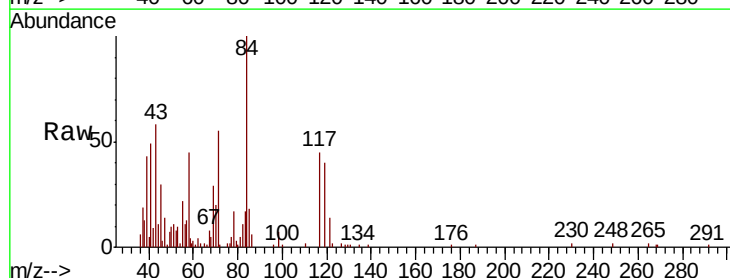
Tgt Ion: 117 Resp: 14884

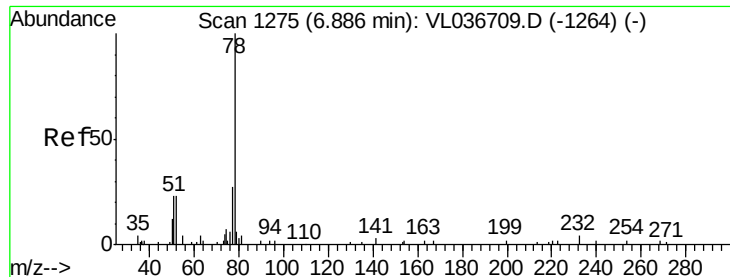
Ion Ratio Lower Upper

117 100

119 78.9 78.2 117.2

121 28.4 24.5 36.7





#36

Benzene

Concen: 8.537 ppbv

RT: 6.89 min Scan# 1275

Delta R.T. -0.01 min

Lab File: VL036759.D

Acq: 8 Apr 2021 20:36

Instrument :

MSVOA_L

ClientSampleId :

SG-3

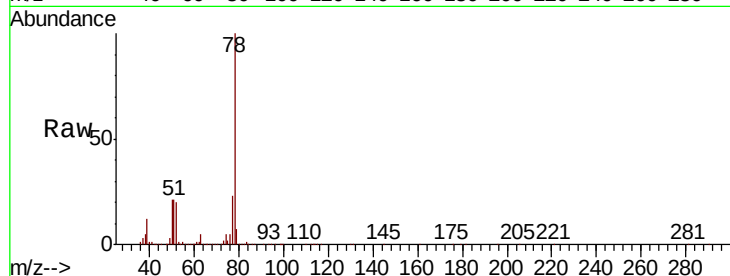
Tot Ion: 78 Resp: 2562273

Ion Ratio Lower Upper

78 100

77 22.9 18.0 27.0

50 20.8 16.5 24.7

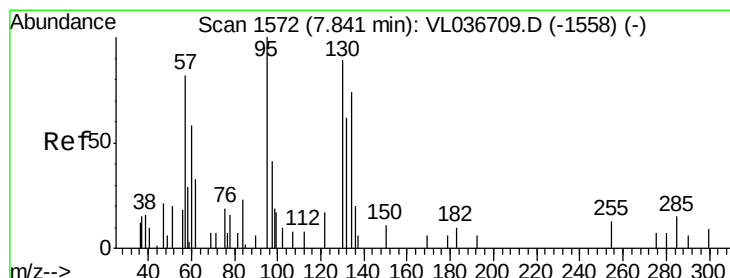
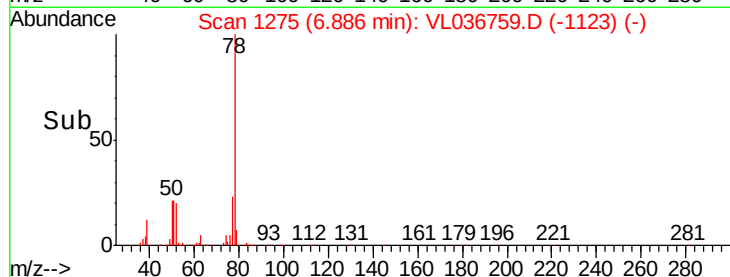
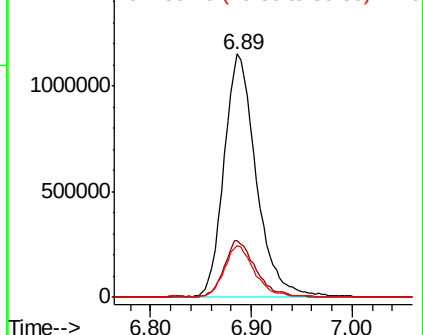


Abundance

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: 39.378 ppbv

RT: 7.83 min Scan# 1570

Delta R.T. -0.01 min

Lab File: VL036759.D

Acq: 8 Apr 2021 20:36

Tgt Ion: 130 Resp: 4599733

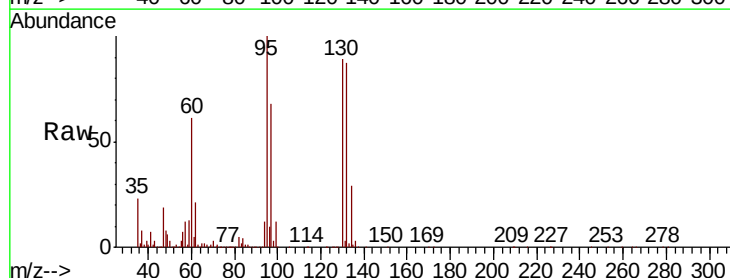
Ion Ratio Lower Upper

130 100

95 112.0 95.7 143.5

132 97.5 76.2 114.4

97 76.1 61.8 92.6



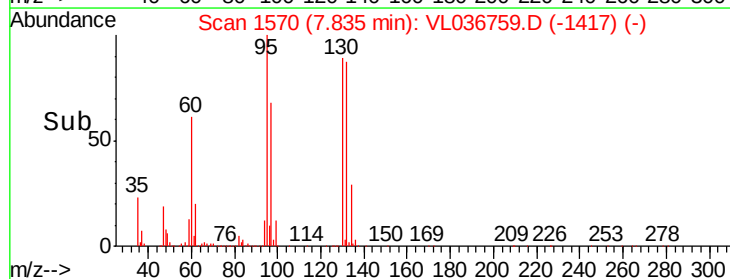
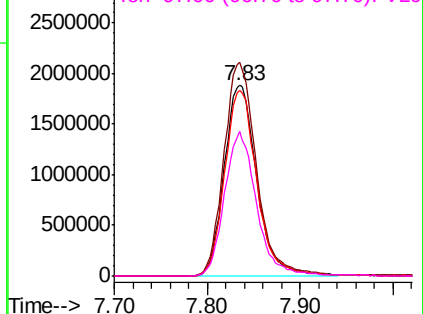
Abundance

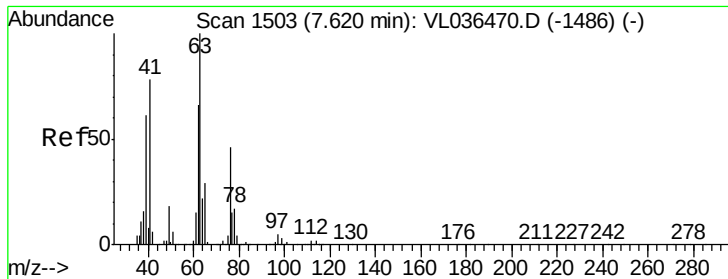
Ion 130.00 (129.70 to 130.70): V

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: 0.101 ppbv

RT: 7.87 min Scan# 1582

Delta R.T. 0.25 min

Lab File: VL036759.D

Acq: 8 Apr 2021 20:36

Instrument :

MSVOA_L

ClientSampleId :

SG-3

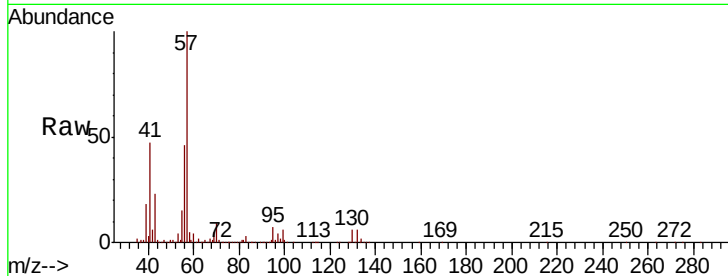
Tot Ion: 63 Resp: 12287

Ion Ratio Lower Upper

63 100

41 13398.7 62.4 93.6#

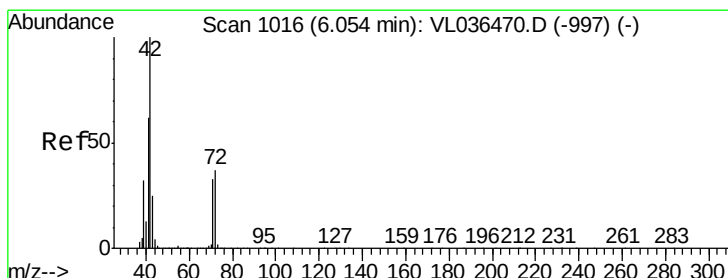
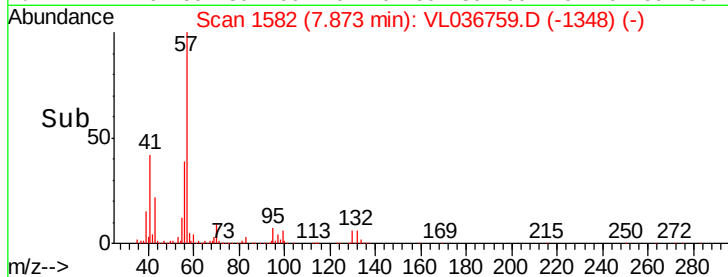
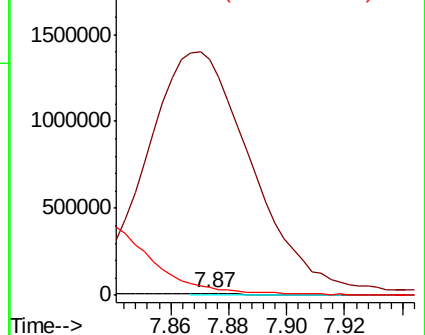
62 385.5 52.8 79.2#



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#41

Tetrahydrofuran

Concen: 1.499 ppbv

RT: 6.32 min Scan# 1098

Delta R.T. 0.26 min

Lab File: VL036759.D

Acq: 8 Apr 2021 20:36

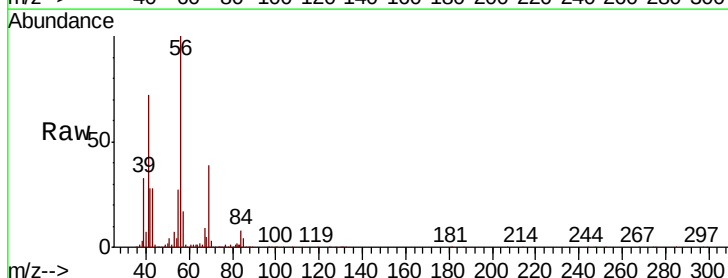
Tgt Ion: 42 Resp: 109832

Ion Ratio Lower Upper

42 100

72 0.5 27.6 41.4#

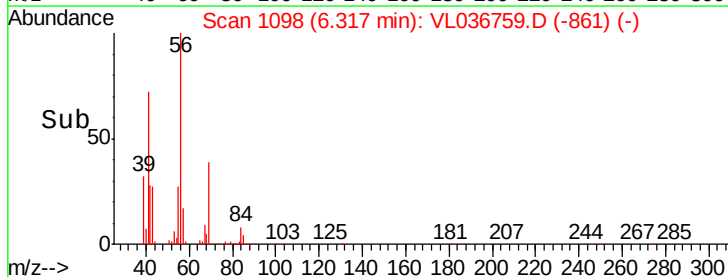
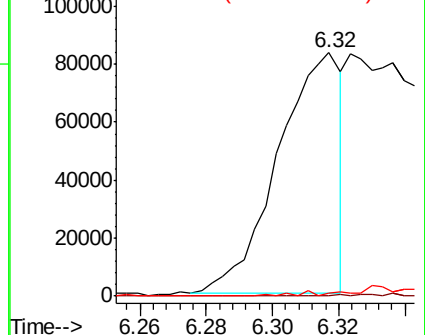
71 0.0 27.0 40.4#

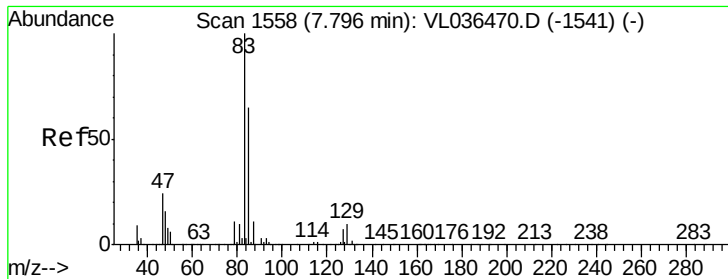


Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0





#42

Bromodichloromethane

Concen: 0.539 ppbv

RT: 7.79 min Scan# 1556

Delta R.T. -0.01 min

Lab File: VL036759.D

Acq: 8 Apr 2021 20:36

Instrument :

MSVOA_L

ClientSampleId :

SG-3

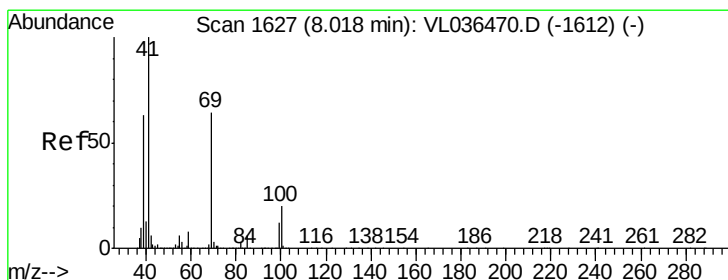
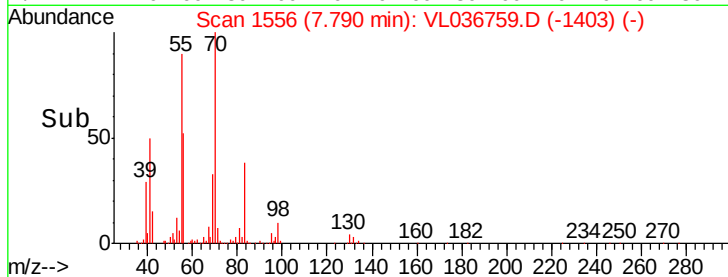
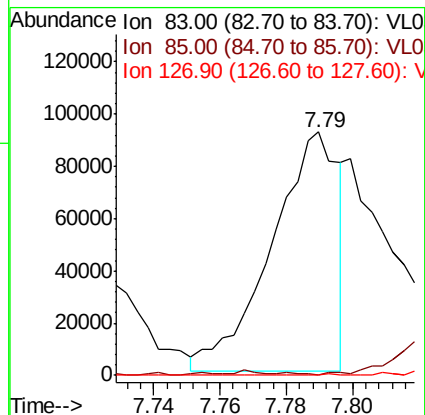
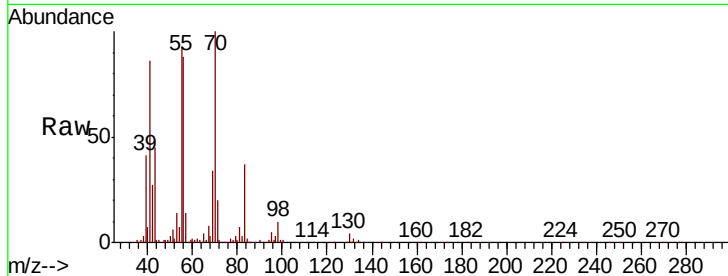
Tot Ion: 83 Resp: 129552

Ion Ratio Lower Upper

83 100

85 0.0 51.8 77.6#

127 0.0 5.8 8.8#



#43

Methyl Methacrylate

Concen: 0.122 ppbv

RT: 7.98 min Scan# 1615

Delta R.T. -0.04 min

Lab File: VL036759.D

Acq: 8 Apr 2021 20:36

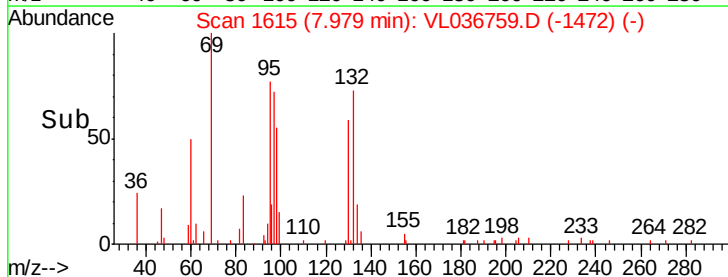
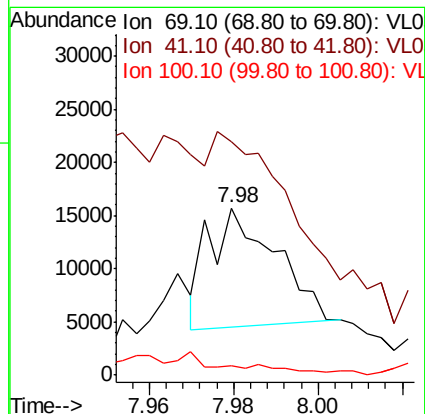
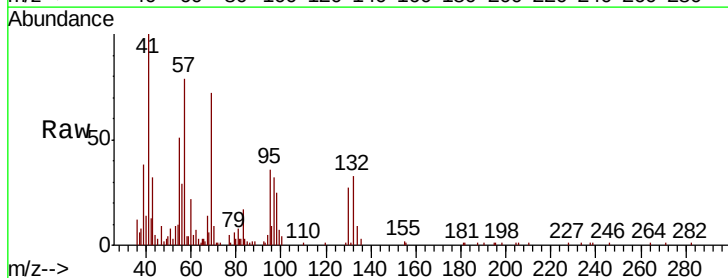
Tgt Ion: 69 Resp: 12250

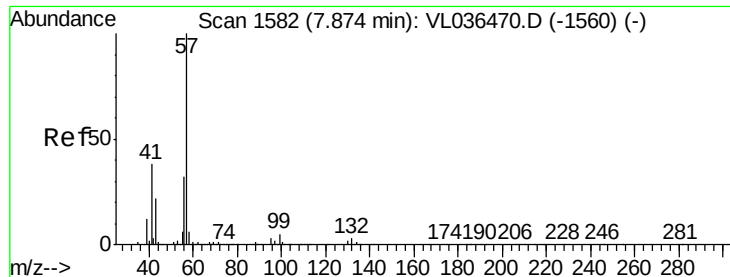
Ion Ratio Lower Upper

69 100

41 0.0 126.8 190.2#

100 49.5 24.9 37.3#





#44

2,2,4-Trimethylpentane

Concen: 14.979 ppbv

RT: 7.87 min Scan# 1581

Delta R.T. -0.00 min

Lab File: VL036759.D

Acq: 8 Apr 2021 20:36

Instrument :

MSVOA_L

ClientSampled :

SG-3

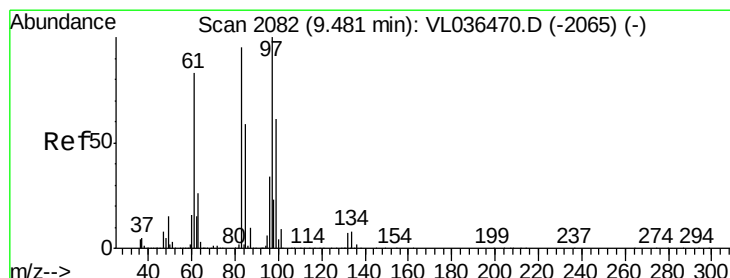
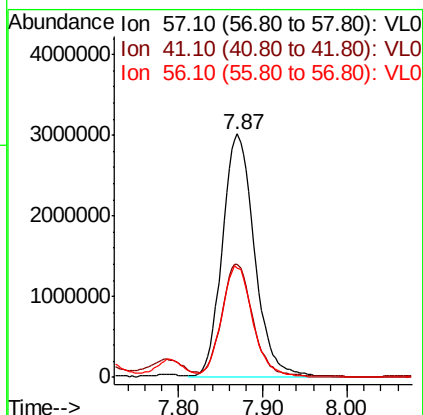
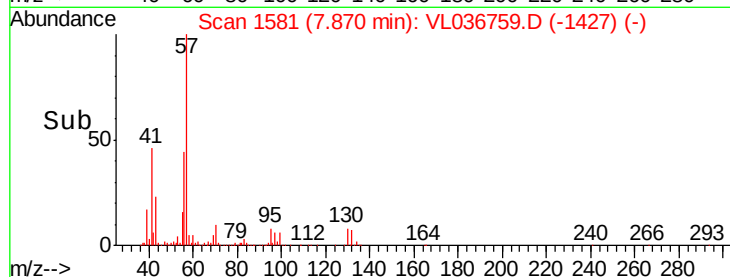
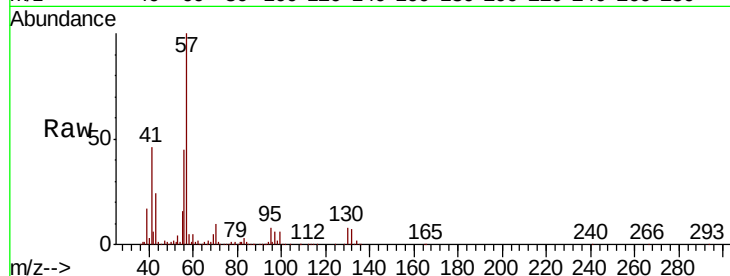
Tot Ion: 57 Resp: 7913088

Ion Ratio Lower Upper

57 100

41 46.6 28.8 43.2#

56 45.2 26.1 39.1#



#47

1,1,2-Trichloroethane

Concen: 0.805 ppbv

RT: 9.57 min Scan# 2109

Delta R.T. 0.09 min

Lab File: VL036759.D

Acq: 8 Apr 2021 20:36

Tgt Ion: 97 Resp: 99286

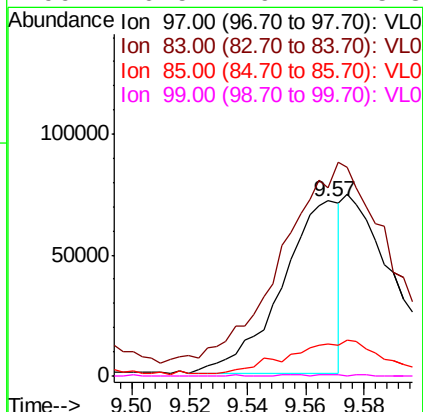
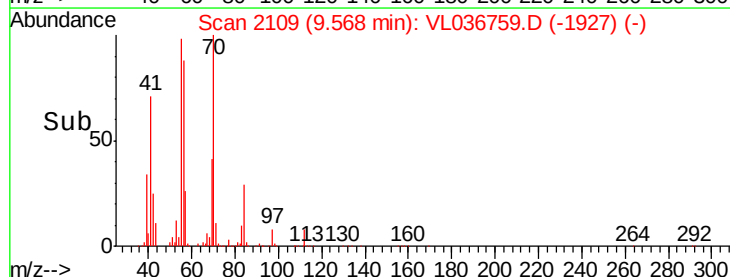
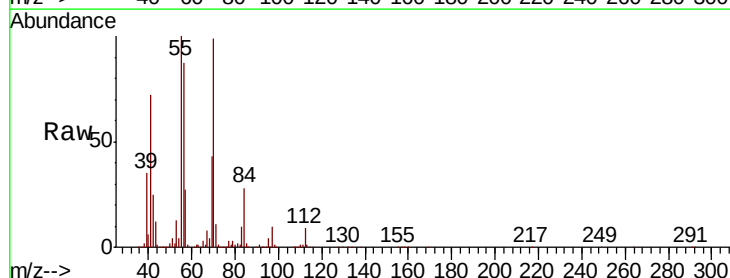
Ion Ratio Lower Upper

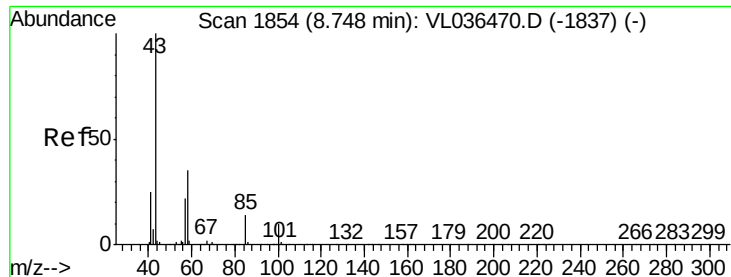
97 100

83 97.4 75.8 113.8

85 16.9 47.1 70.7#

99 0.5 49.2 73.8#

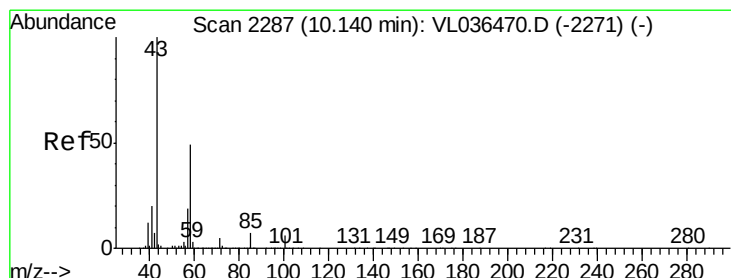
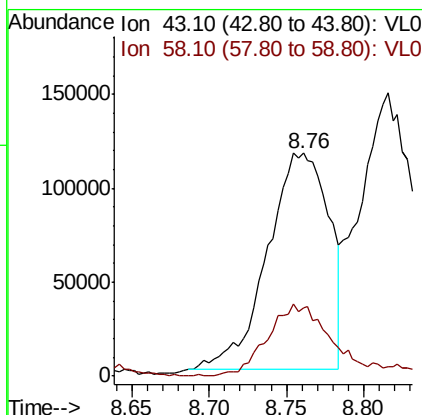
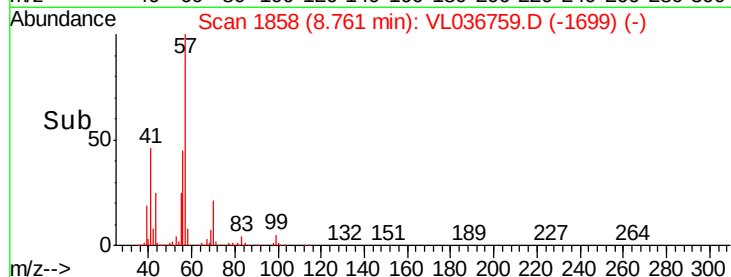
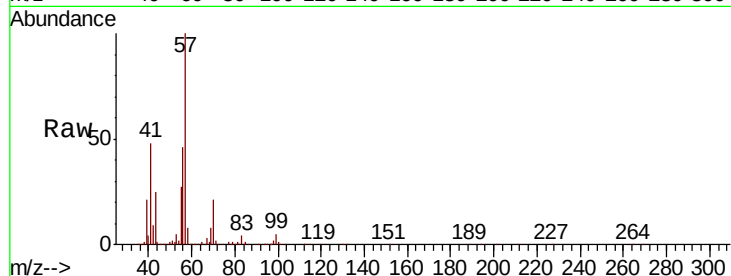




#50
4-Methyl-2-Pentanone
Concen: 1.392 ppbv
RT: 8.76 min Scan# 1858
Delta R.T. 0.01 min
Lab File: VL036759.D
Acq: 8 Apr 2021 20:36

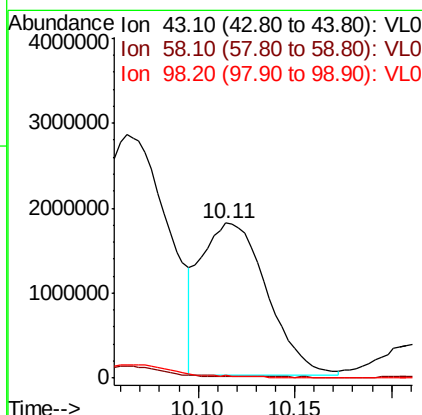
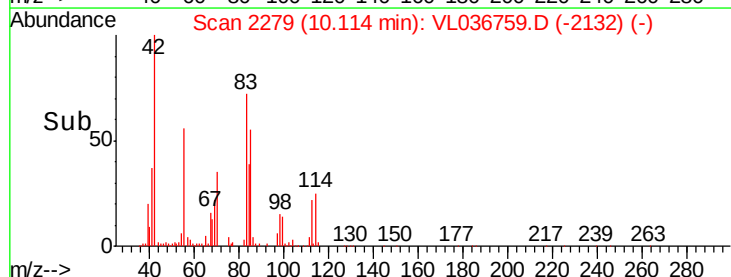
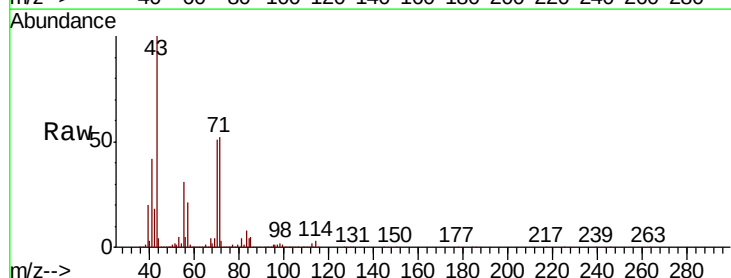
Instrument :
MSVOA_L
ClientSampleId :
SG-3

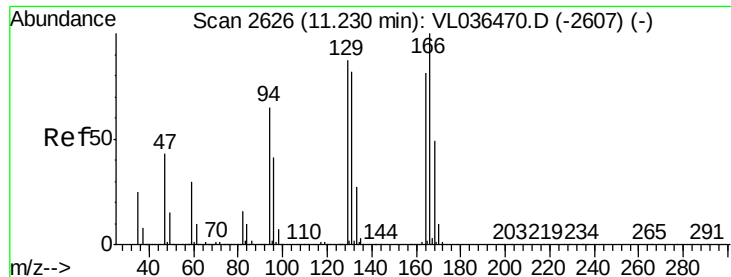
Tot Ion: 43 Resp: 320040
Ion Ratio Lower Upper
43 100
58 34.3 28.2 42.2



#51
2-Hexanone
Concen: 36.446 ppbv
RT: 10.11 min Scan# 2279
Delta R.T. -0.03 min
Lab File: VL036759.D
Acq: 8 Apr 2021 20:36

Tgt Ion: 43 Resp: 4227684
Ion Ratio Lower Upper
43 100
58 0.0 37.7 56.5#
98 0.0 0.2 0.2#





#52

Tetrachloroethene

Concen: 0.233 ppbv

RT: 11.23 min Scan# 2625

Delta R.T. -0.00 min

Lab File: VL036759.D

Acq: 8 Apr 2021 20:36

Instrument :

MSVOA_L

ClientSampleId :

SG-3

Tot Ion:164 Resp: 25749

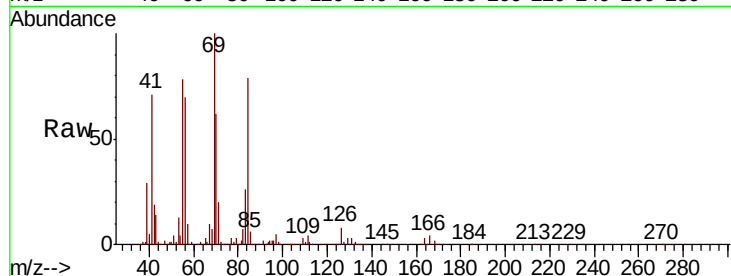
Ion Ratio Lower Upper

164 100

166 116.5 98.3 147.5

129 100.4 85.8 128.8

131 81.4 80.9 121.3

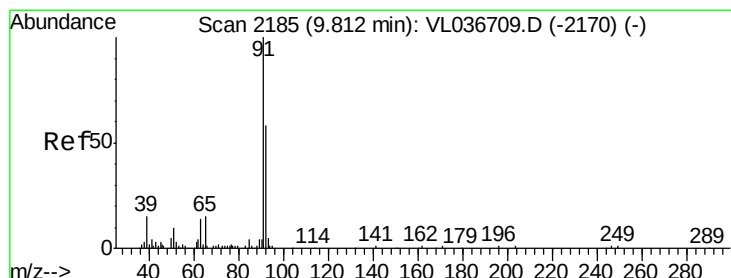
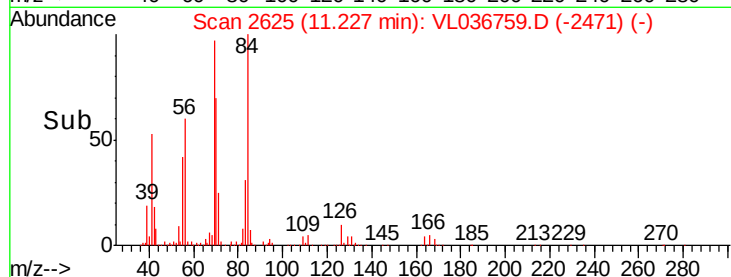
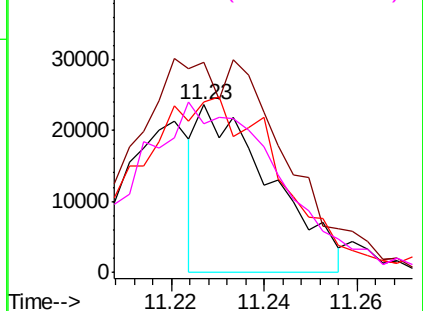


Abundance Ion 163.90 (163.60 to 164.60): V

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



#53

Toluene

Concen: 5.446 ppbv

RT: 9.80 min Scan# 2182

Delta R.T. -0.01 min

Lab File: VL036759.D

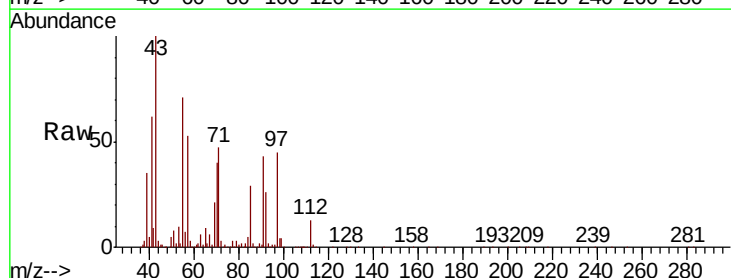
Acq: 8 Apr 2021 20:36

Tgt Ion: 91 Resp: 1740611

Ion Ratio Lower Upper

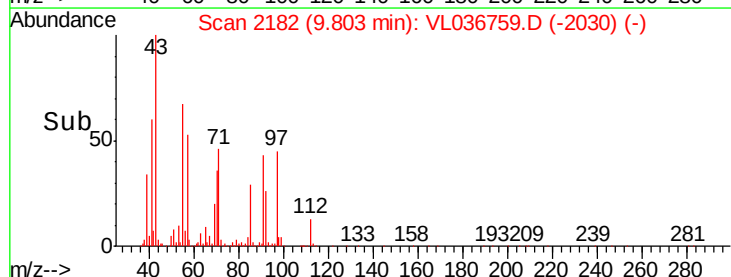
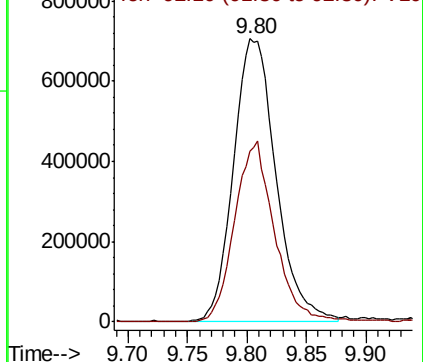
91 100

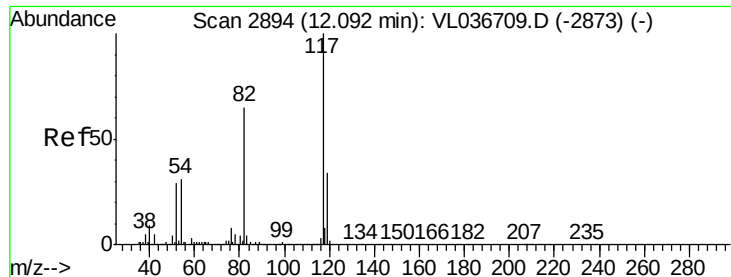
92 60.3 48.8 73.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

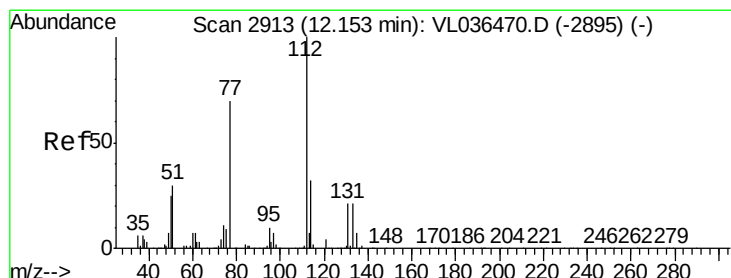
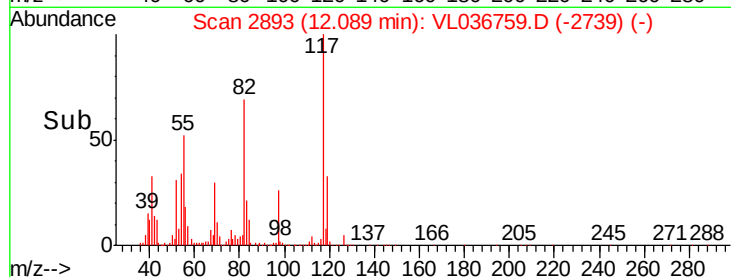
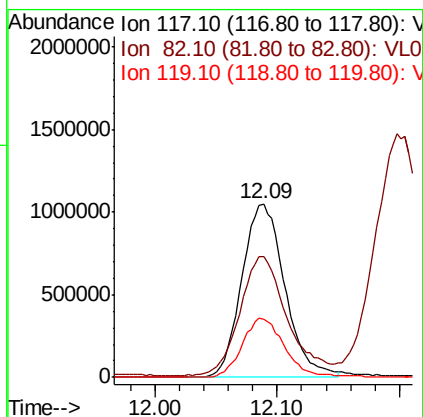
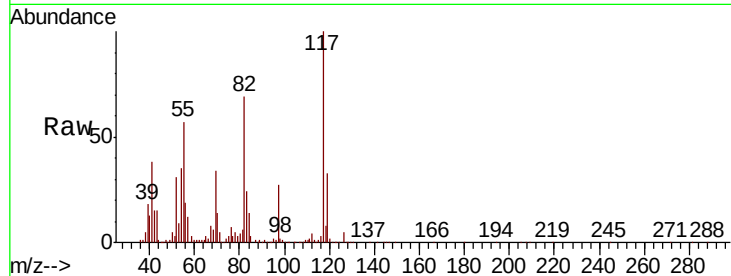




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2893
Delta R.T. -0.00 min
Lab File: VL036759.D
Acq: 8 Apr 2021 20:36

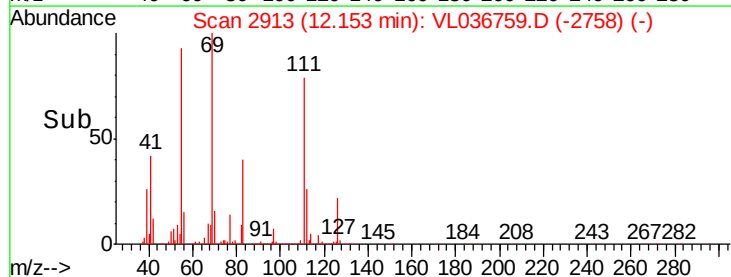
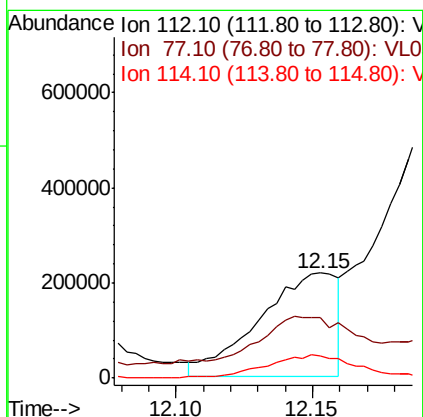
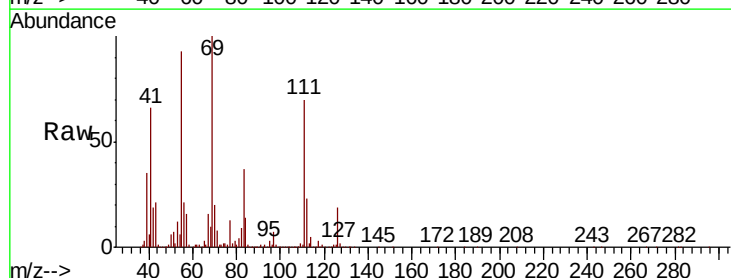
Instrument :
MSVOA_L
ClientSampleId :
SG-3

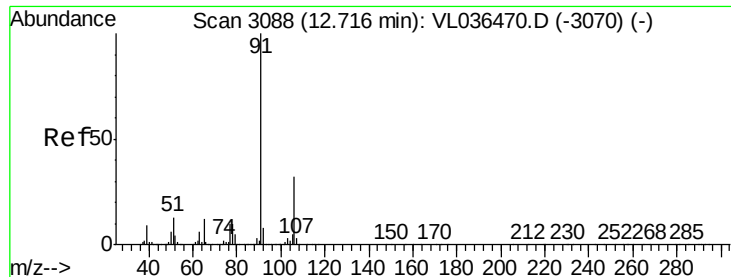
Tot Ion:117 Resp: 2561647
Ion Ratio Lower Upper
117 100
82 75.6 57.4 86.0
119 34.3 47.4 71.0#



#57
Chlorobenzene
Concen: 1.982 ppbv
RT: 12.15 min Scan# 2913
Delta R.T. -0.00 min
Lab File: VL036759.D
Acq: 8 Apr 2021 20:36

Tgt Ion:112 Resp: 431914
Ion Ratio Lower Upper
112 100
77 48.1 56.0 84.0#
114 23.0 29.0 35.4#





#58

Ethyl Benzene

Concen: 6.199 ppbv

RT: 12.72 min Scan# 3090

Delta R.T. 0.01 min

Lab File: VL036759.D

Acq: 8 Apr 2021 20:36

Instrument :

MSVOA_L

ClientSampleId :

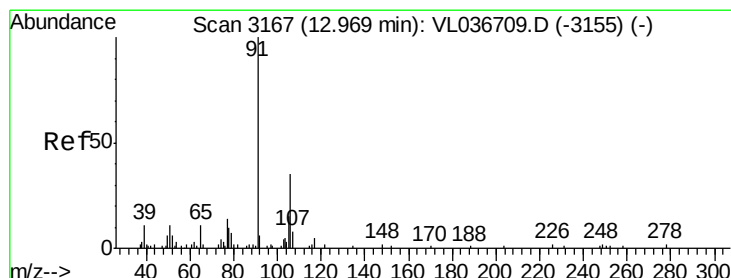
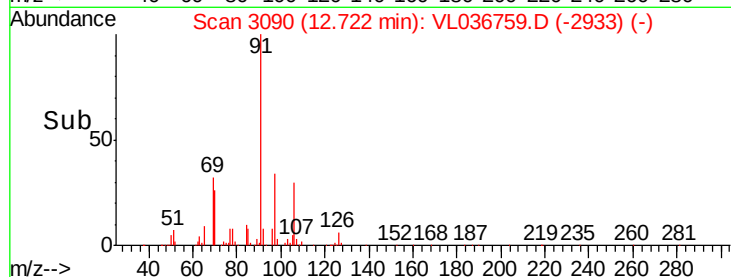
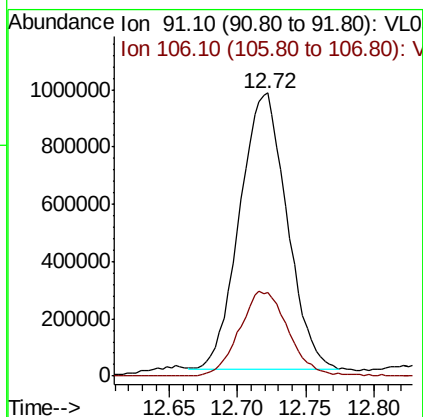
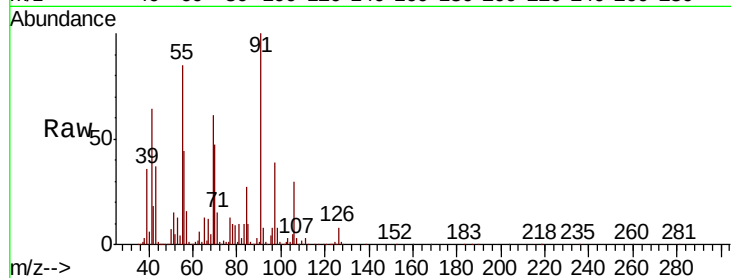
SG-3

Tot Ion: 91 Resp: 2310206

Ion Ratio Lower Upper

91 100

106 30.3 25.3 37.9



#59

m/p-Xylene

Concen: 10.070 ppbv

RT: 12.98 min Scan# 3170

Delta R.T. -0.02 min

Lab File: VL036759.D

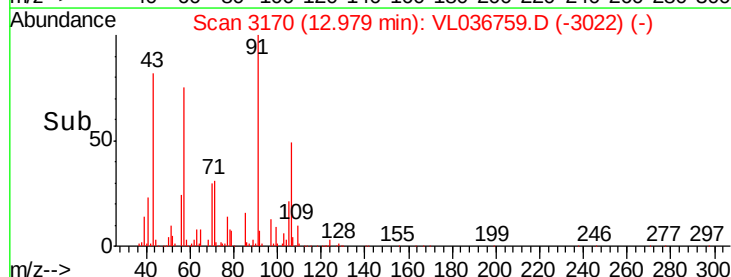
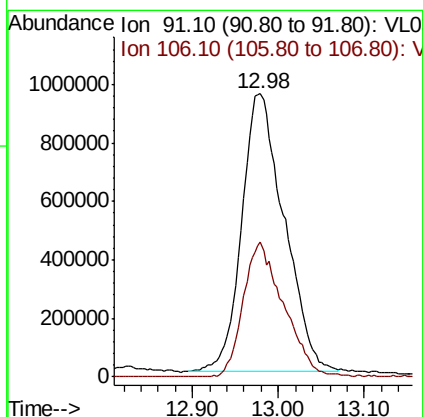
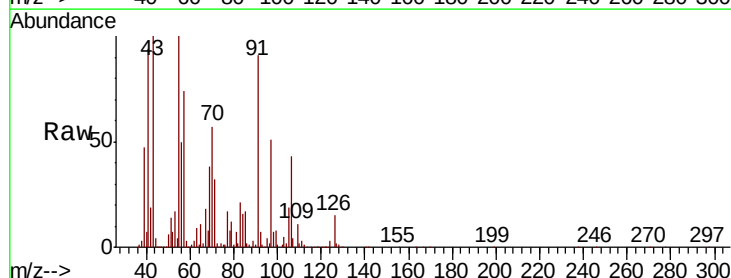
Acq: 8 Apr 2021 20:36

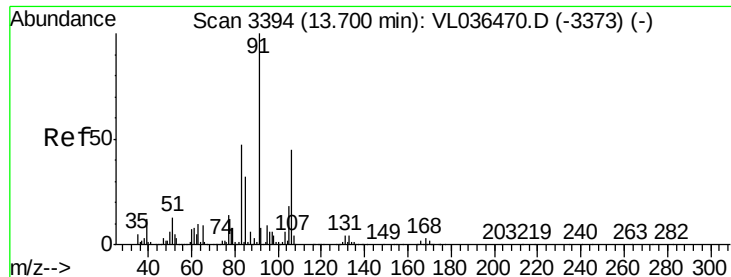
Tgt Ion: 91 Resp: 3273504

Ion Ratio Lower Upper

91 100

106 45.7 35.3 52.9

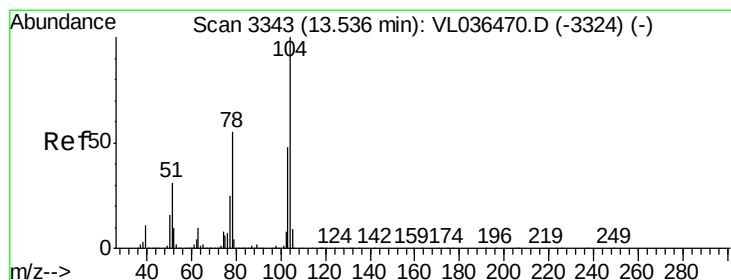
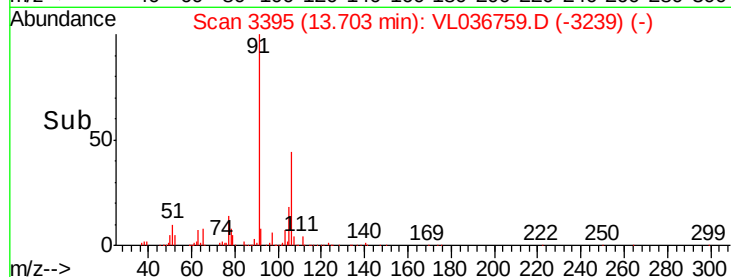
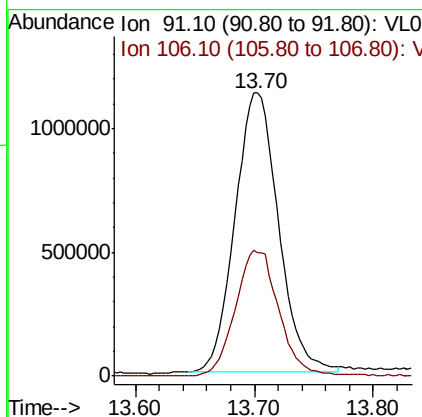
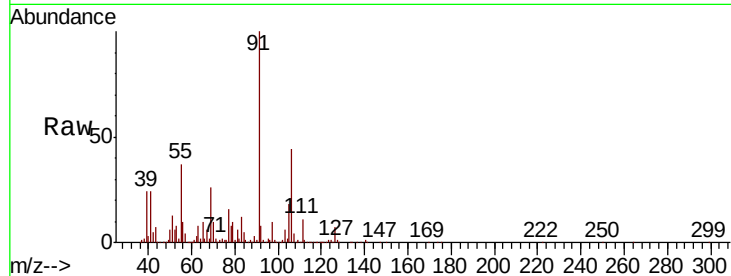




#60
o-Xylene
Concen: 9.080 ppbv
RT: 13.70 min Scan# 3395
Delta R.T. 0.00 min
Lab File: VL036759.D
Acq: 8 Apr 2021 20:36

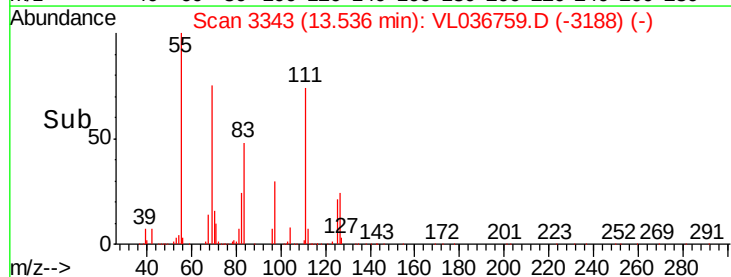
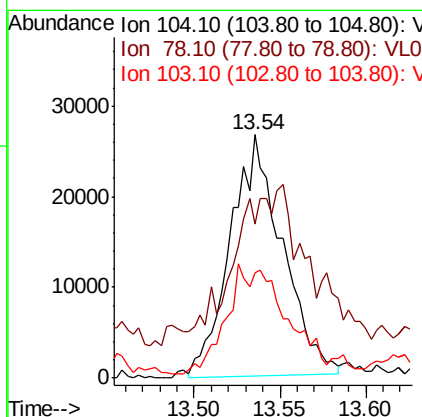
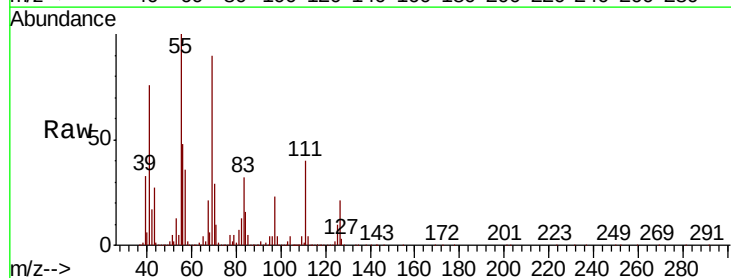
Instrument :
MSVOA_L
ClientSampled :
SG-3

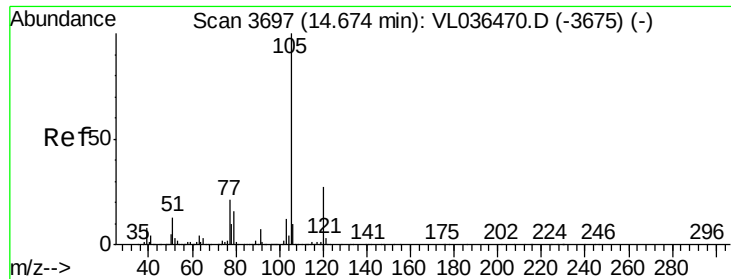
Tot Ion: 91 Resp: 2853914
Ion Ratio Lower Upper
91 100
106 45.6 22.3 66.9



#61
Styrene
Concen: 0.353 ppbv
RT: 13.54 min Scan# 3343
Delta R.T. -0.00 min
Lab File: VL036759.D
Acq: 8 Apr 2021 20:36

Tgt Ion: 104 Resp: 55894
Ion Ratio Lower Upper
104 100
78 100.6 43.8 65.8#
103 54.7 38.3 57.5





#62

Isopropylbenzene

Concen: 1.555 ppbv

RT: 14.67 min Scan# 3697

Delta R.T. -0.00 min

Lab File: VL036759.D

Acq: 8 Apr 2021 20:36

Instrument :

MSVOA_L

ClientSampleId :

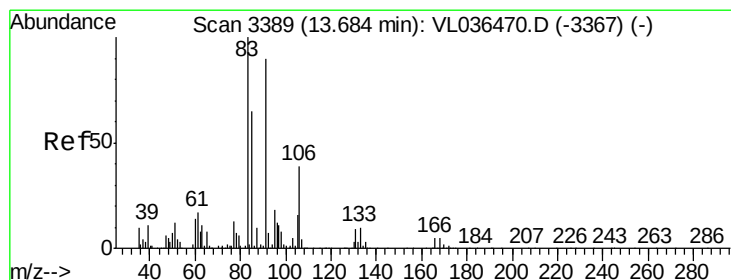
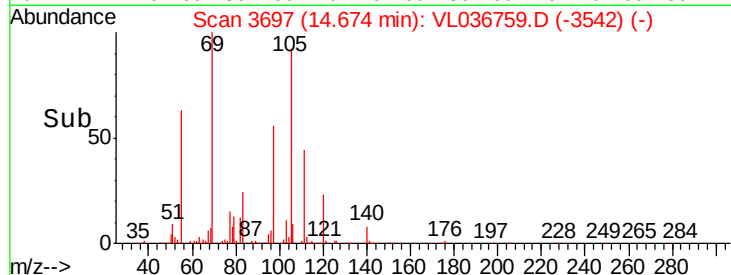
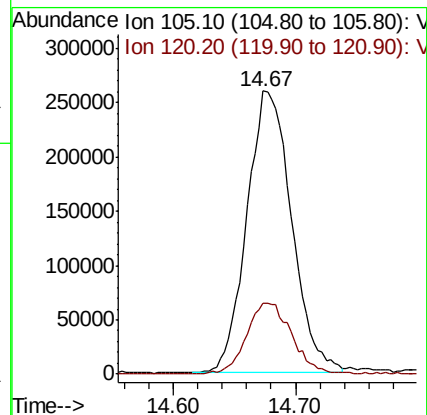
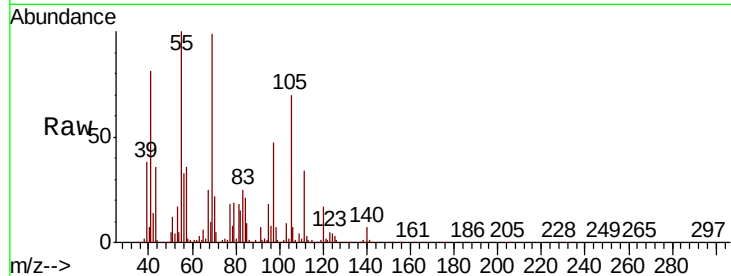
SG-3

Tot Ion:105 Resp: 658171

Ion Ratio Lower Upper

105 100

120 25.8 20.6 31.0



#63

1,1,2,2-Tetrachloroethane

Concen: 1.959 ppbv

RT: 13.67 min Scan# 3385

Delta R.T. -0.01 min

Lab File: VL036759.D

Acq: 8 Apr 2021 20:36

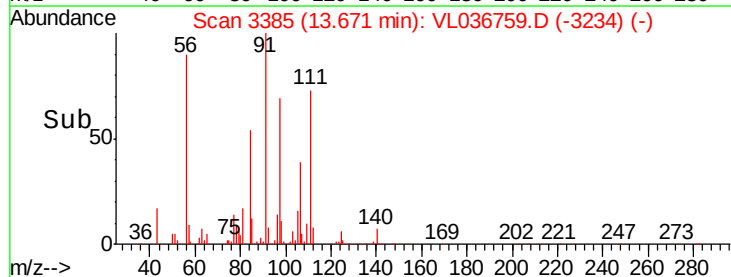
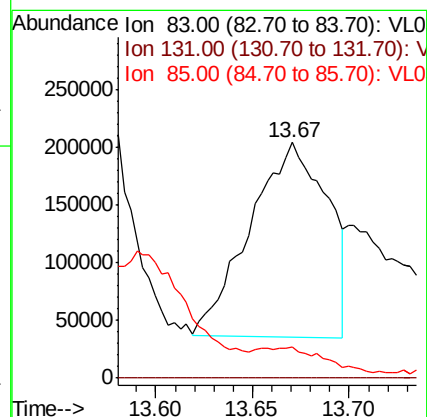
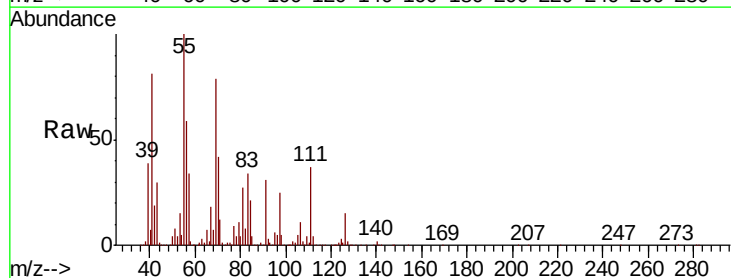
Tgt Ion: 83 Resp: 469673

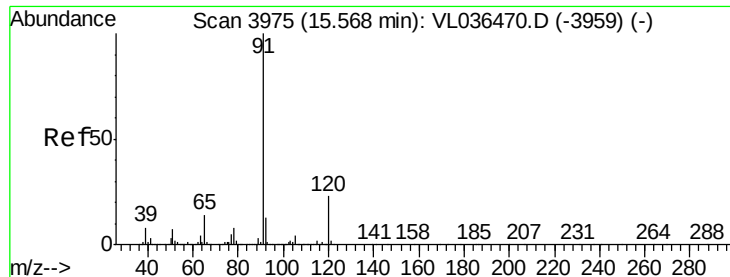
Ion Ratio Lower Upper

83 100

131 0.1 4.7 14.0#

85 0.0 33.1 99.3#





#64

n-propylbenzene

Concen: 1.207 ppbv

RT: 15.58 min Scan# 3979

Delta R.T. 0.01 min

Lab File: VL036759.D

Acq: 8 Apr 2021 20:36

Instrument :

MSVOA_L

ClientSampled :

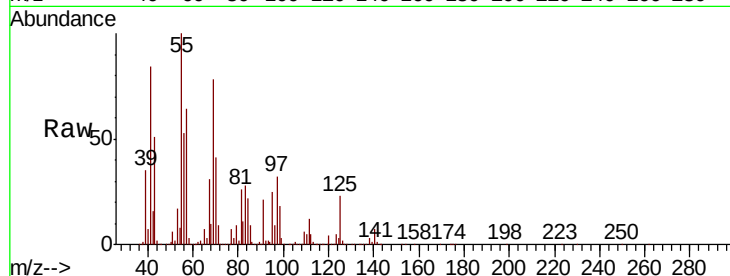
SG-3

Tot Ion:120 Resp: 124890

Ion Ratio Lower Upper

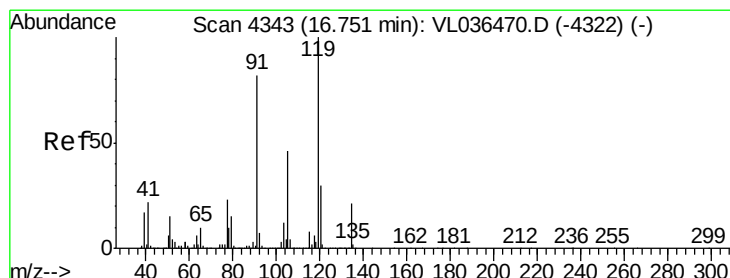
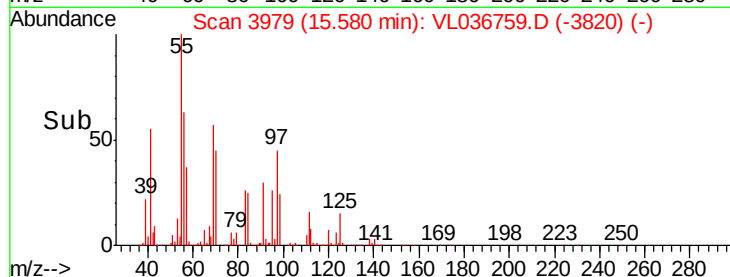
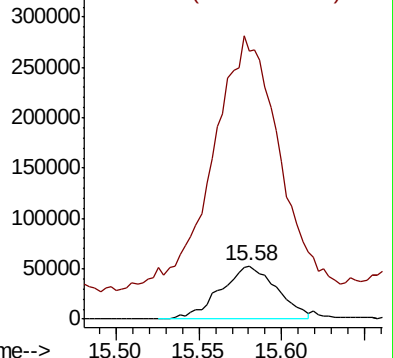
120 100

91 590.6 377.4 566.2#



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#65

tert-Butylbenzene

Concen: 0.431 ppbv

RT: 16.77 min Scan# 4349

Delta R.T. 0.02 min

Lab File: VL036759.D

Acq: 8 Apr 2021 20:36

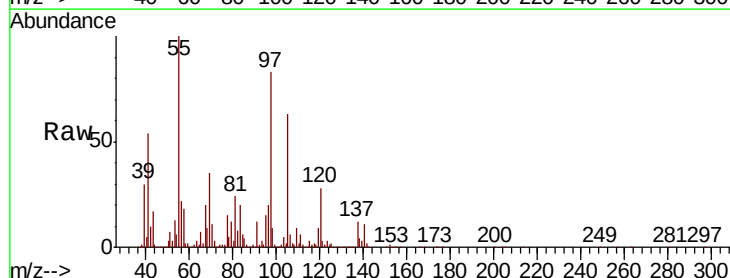
Tgt Ion:119 Resp: 158341

Ion Ratio Lower Upper

119 100

91 244.1 67.5 101.3#

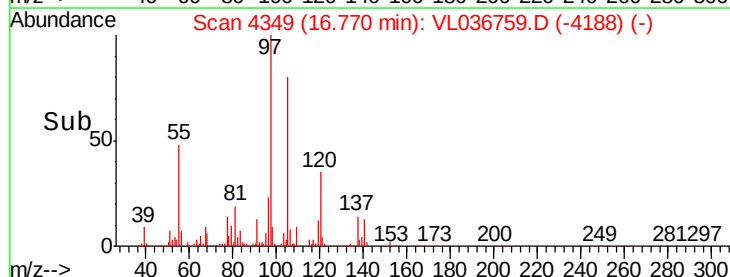
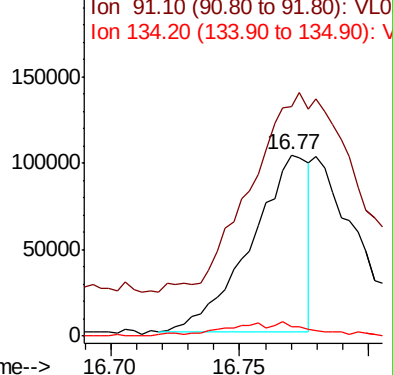
134 12.6 15.8 23.8#

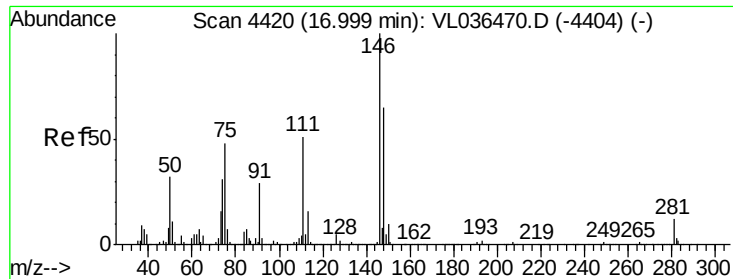


Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V

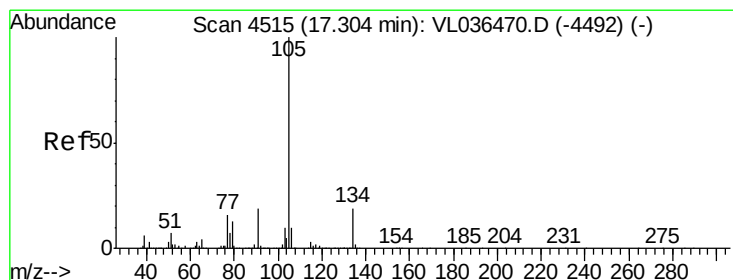
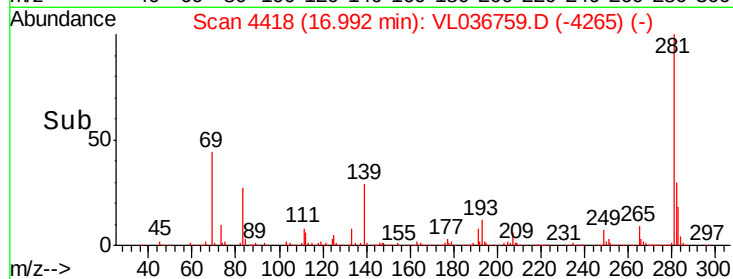
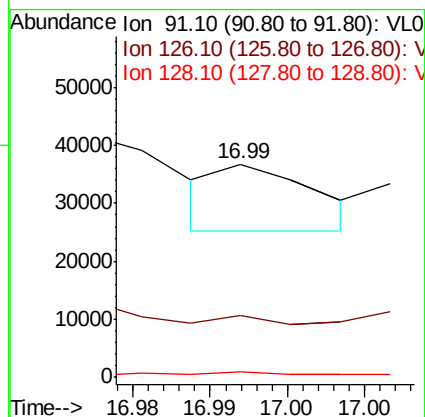
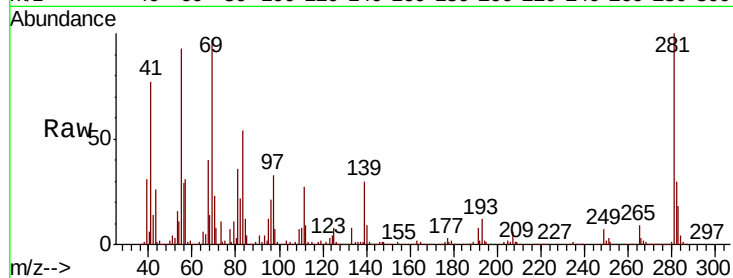




#66
Benzyl Chloride
Concen: 0.121 ppbv
RT: 16.99 min Scan# 4418
Delta R.T. -0.01 min
Lab File: VL036759.D
Acq: 8 Apr 2021 20:36

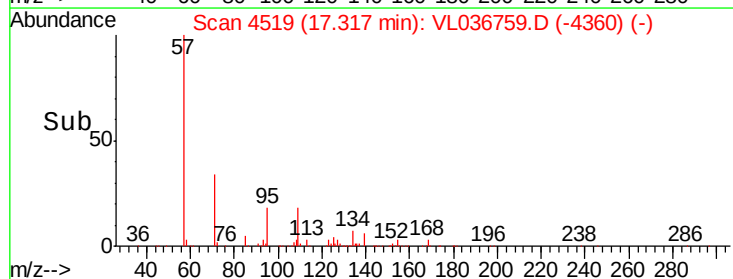
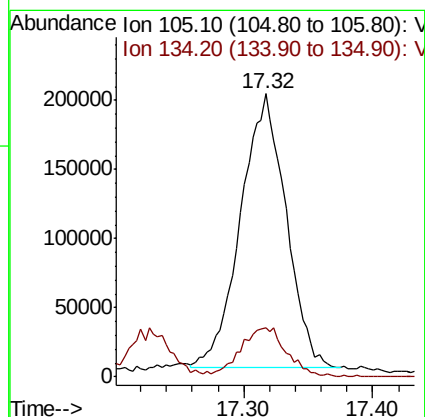
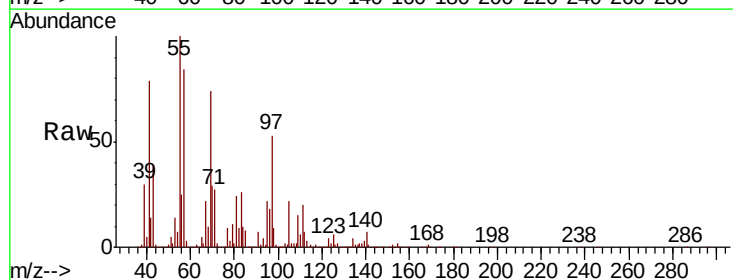
Instrument :
MSVOA_L
ClientSampled :
SG-3

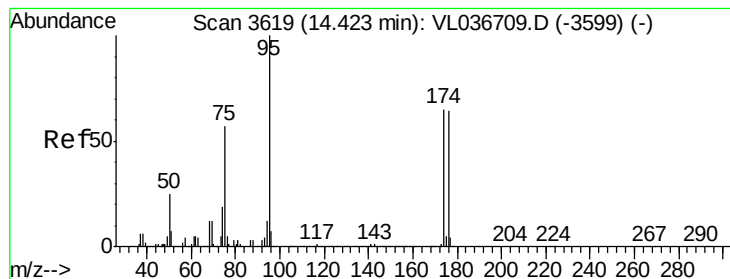
Tot Ion: 91 Resp: 4926
Ion Ratio Lower Upper
91 100
126 0.0 13.5 20.3#
128 34.3 4.2 6.4#



#67
sec-Butylbenzene
Concen: 0.940 ppbv
RT: 17.32 min Scan# 4519
Delta R.T. 0.01 min
Lab File: VL036759.D
Acq: 8 Apr 2021 20:36

Tgt Ion: 105 Resp: 486942
Ion Ratio Lower Upper
105 100
134 18.5 14.7 22.1





#68

1-Bromo-4-Fluorobenzene

Concen: 14.635 ppbv

RT: 14.42 min Scan# 3617

Delta R.T. -0.01 min

Lab File: VL036759.D

Acq: 8 Apr 2021 20:36

Instrument :

MSVOA_L

ClientSampled :

SG-3

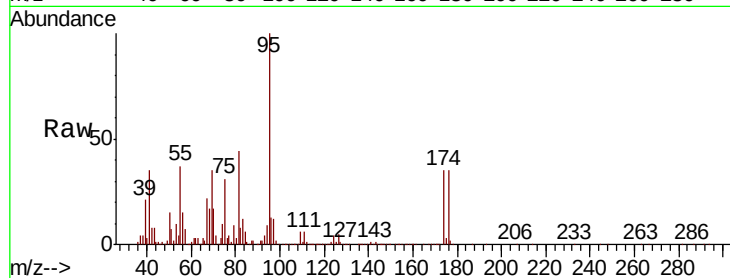
Tot Ion: 95 Resp: 2987979

Ion Ratio Lower Upper

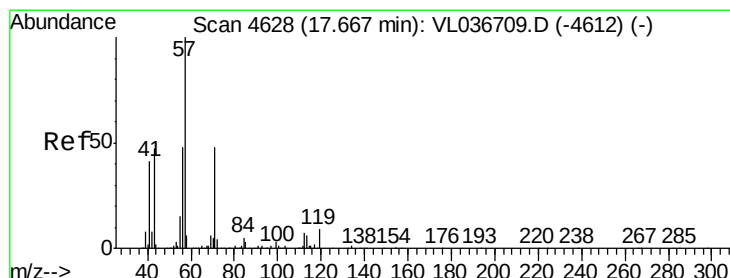
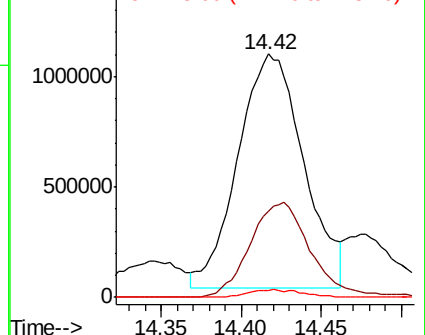
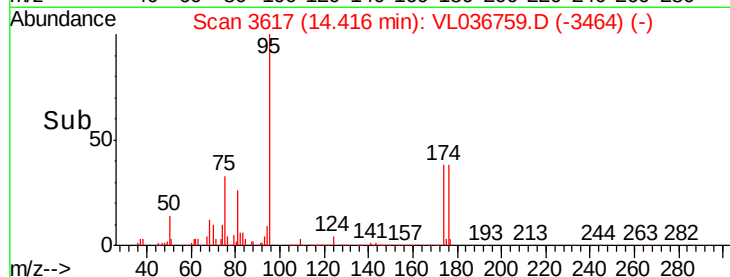
95 100

174 38.0 51.0 76.6#

175 3.0 3.9 5.9#



Abundance Ion 95.10 (94.80 to 95.80): VL0
Ion 174.00 (173.70 to 174.70): V
Ion 175.00 (174.70 to 175.70): V



#69

p-Isopropyltoluene

Concen: 1.727 ppbv

RT: 17.67 min Scan# 4630

Delta R.T. 0.01 min

Lab File: VL036759.D

Acq: 8 Apr 2021 20:36

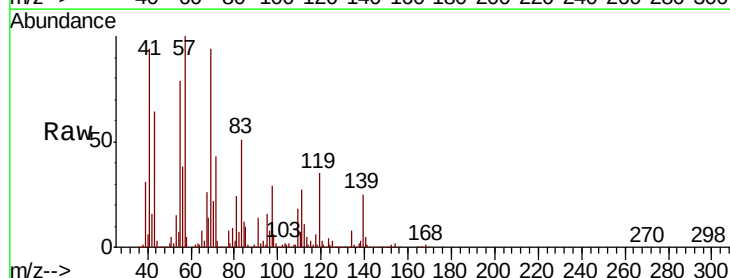
Tgt Ion: 119 Resp: 698842

Ion Ratio Lower Upper

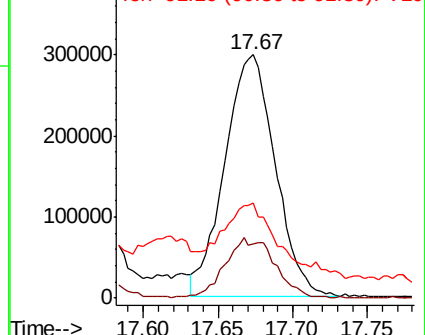
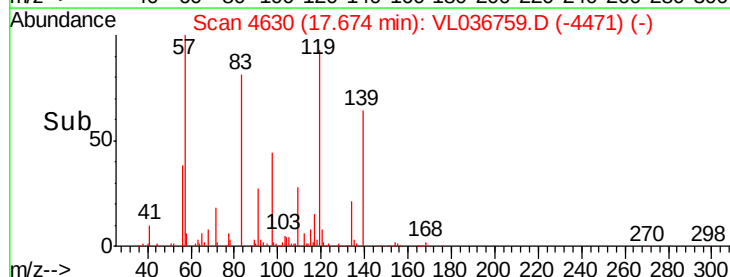
119 100

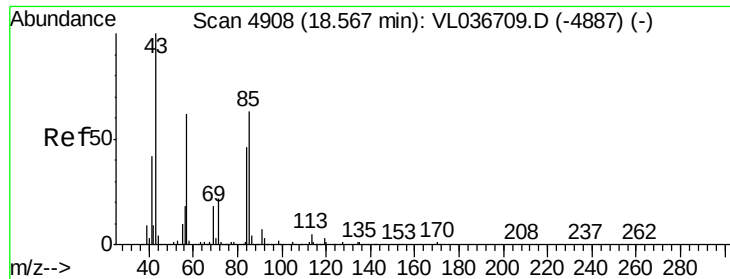
134 25.1 20.6 30.8

91 35.1 25.0 37.6



Abundance Ion 119.10 (118.80 to 119.80): V
Ion 134.20 (133.90 to 134.90): V
Ion 91.10 (90.80 to 91.80): VL0

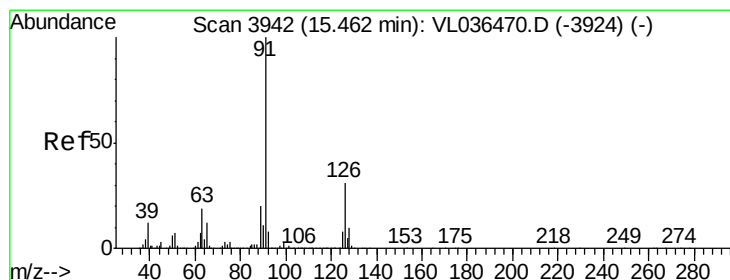
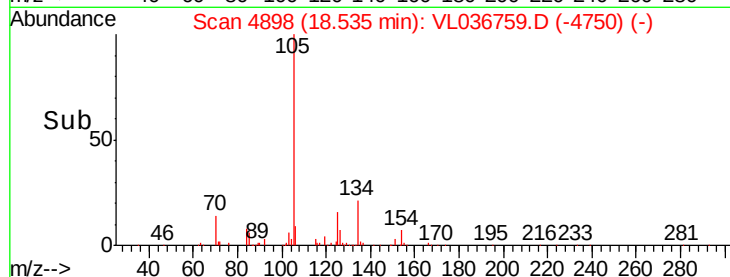
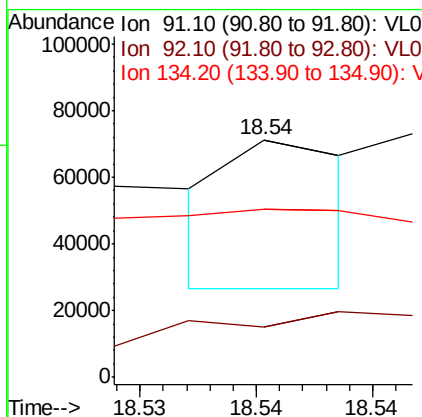
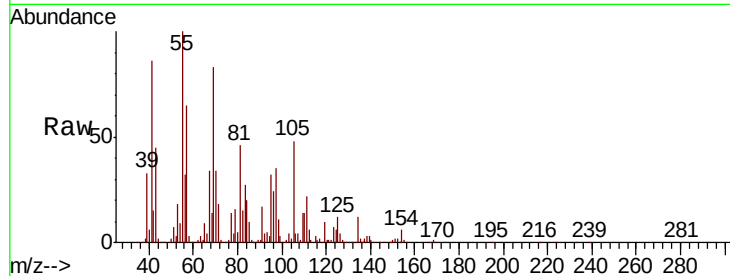




#70
n-Butylbenzene
Concen: 0.039 ppbv
RT: 18.54 min Scan# 4898
Delta R.T. -0.02 min
Lab File: VL036759.D
Acq: 8 Apr 2021 20:36

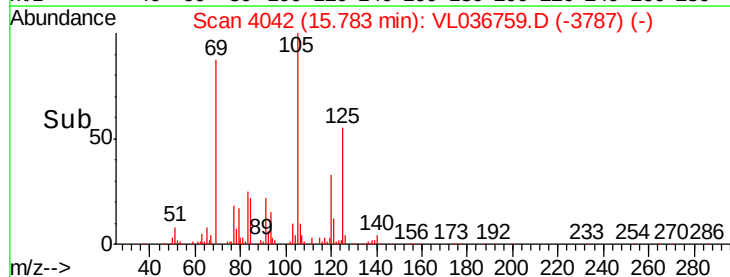
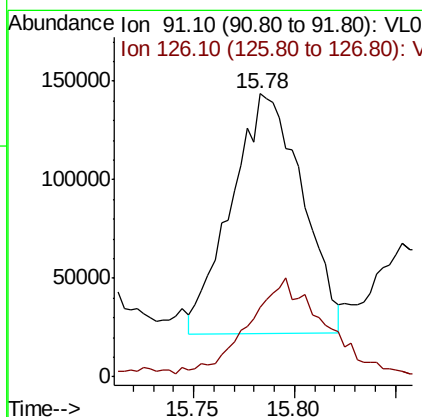
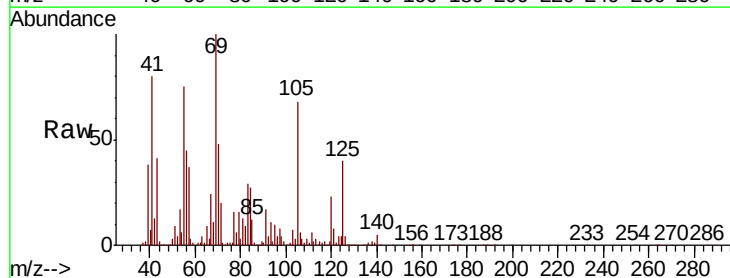
Instrument :
MSVOA_L
ClientSampled :
SG-3

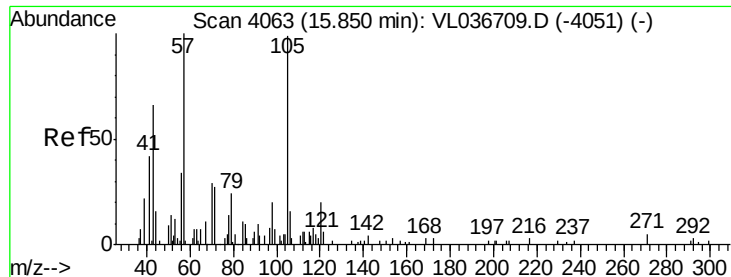
Tot Ion: 91 Resp: 16299
Ion Ratio Lower Upper
91 100
92 0.0 43.8 65.8#
134 0.0 18.0 27.0#



#71
2-Chlorotoluene
Concen: 0.939 ppbv
RT: 15.78 min Scan# 4042
Delta R.T. 0.32 min
Lab File: VL036759.D
Acq: 8 Apr 2021 20:36

Tgt Ion: 91 Resp: 297775
Ion Ratio Lower Upper
91 100
126 46.0 12.1 48.5





#72

4-Ethyltoluene

Concen: 1.414 ppbv

RT: 15.85 min Scan# 4064

Delta R.T. 0.01 min

Lab File: VL036759.D

Acq: 8 Apr 2021 20:36

Instrument :

MSVOA_L

ClientSampled :

SG-3

Tot Ion:105 Resp: 486986

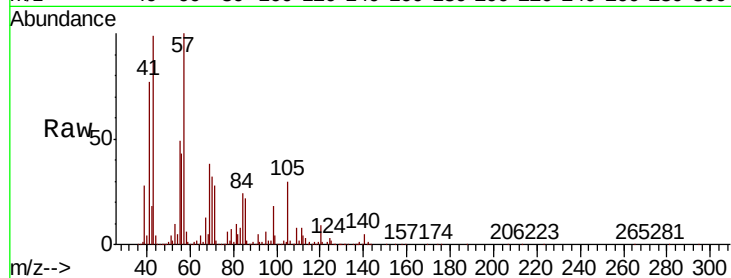
Ion Ratio Lower Upper

105 100

120 55.1 24.0 36.0#

91 33.2 11.0 16.4#

77 0.0 11.7 17.5#

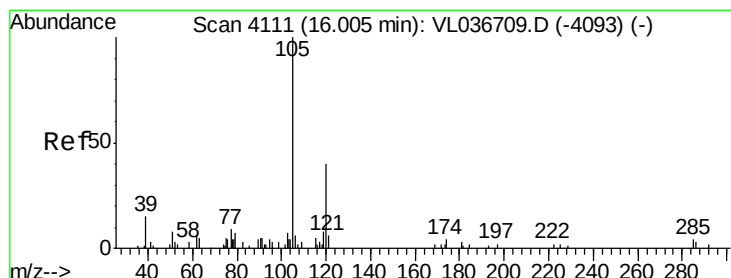
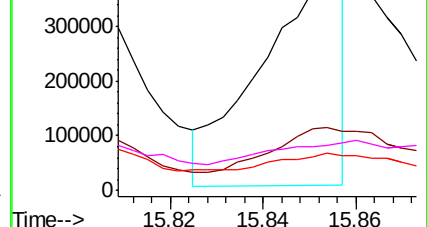
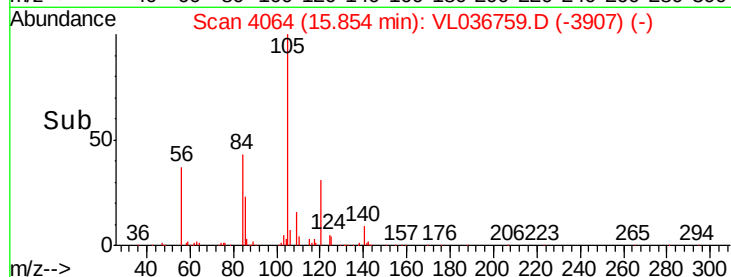


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#73

1,3,5-Trimethylbenzene

Concen: 4.685 ppbv

RT: 16.02 min Scan# 4115

Delta R.T. 0.01 min

Lab File: VL036759.D

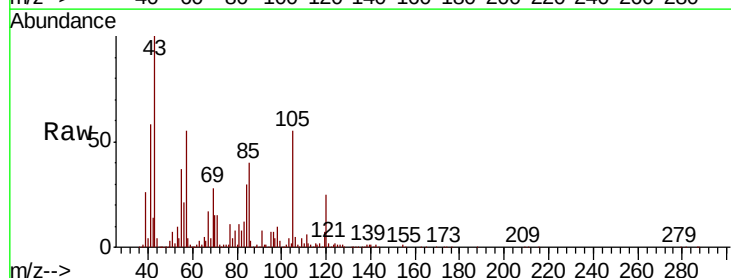
Acq: 8 Apr 2021 20:36

Tgt Ion:105 Resp: 1505982

Ion Ratio Lower Upper

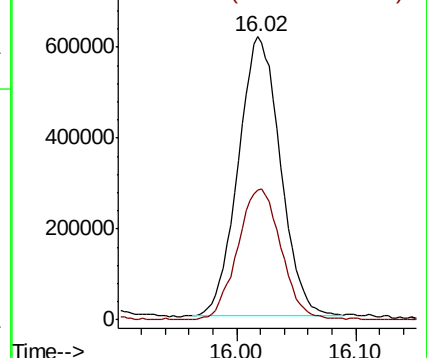
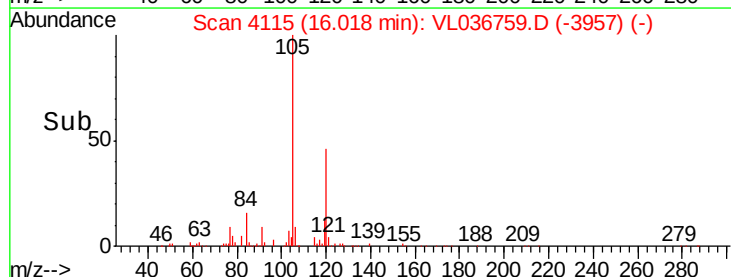
105 100

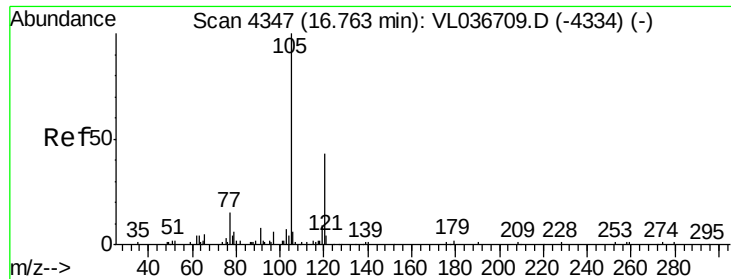
120 46.3 36.6 54.8



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#74

1,2,4-Trimethylbenzene

Concen: 5.732 ppbv

RT: 16.78 min Scan# 4352

Delta R.T. 0.01 min

Lab File: VL036759.D

Acq: 8 Apr 2021 20:36

Instrument :

MSVOA_L

ClientSampled :

SG-3

Tot Ion:105 Resp: 1971728

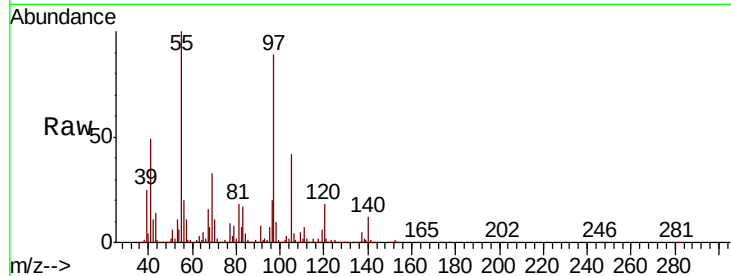
Ion Ratio Lower Upper

105 100

120 43.1 39.2 58.8

91 14.7 42.6 64.0#

77 16.2 18.6 28.0#



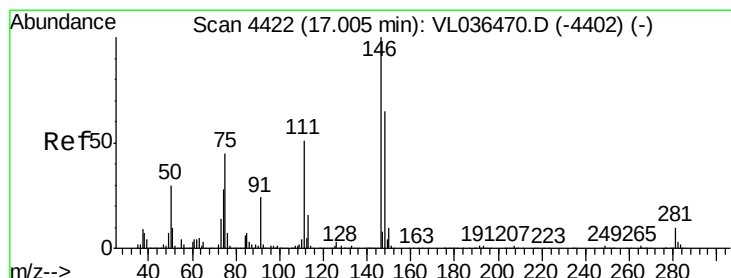
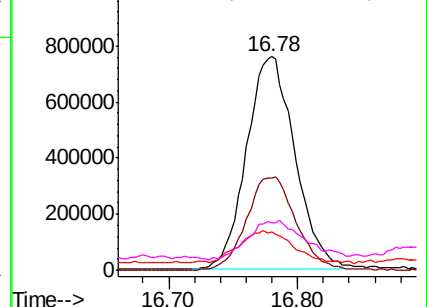
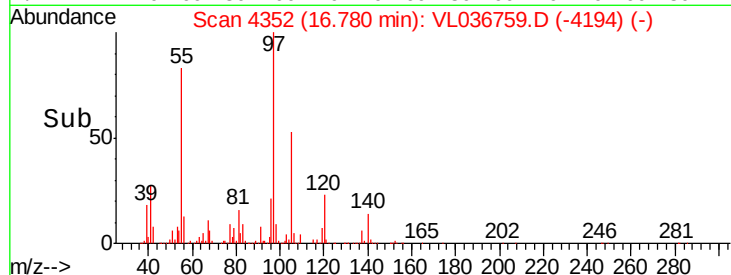
Abundance

Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#75

1,3-Dichlorobenzene

Concen: 0.094 ppbv

RT: 17.01 min Scan# 4423

Delta R.T. 0.00 min

Lab File: VL036759.D

Acq: 8 Apr 2021 20:36

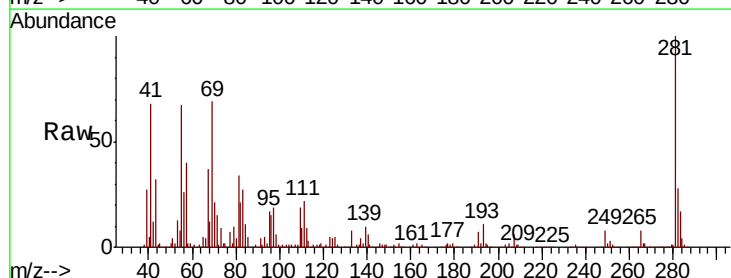
Tgt Ion:146 Resp: 18147

Ion Ratio Lower Upper

146 100

111 3374.3 24.5 73.5#

148 0.0 32.3 96.9#

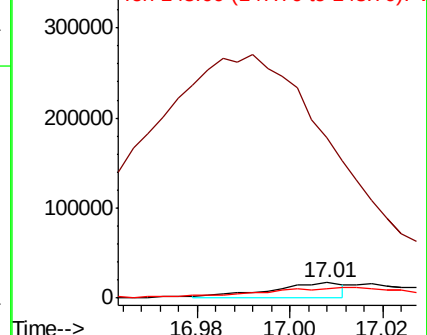
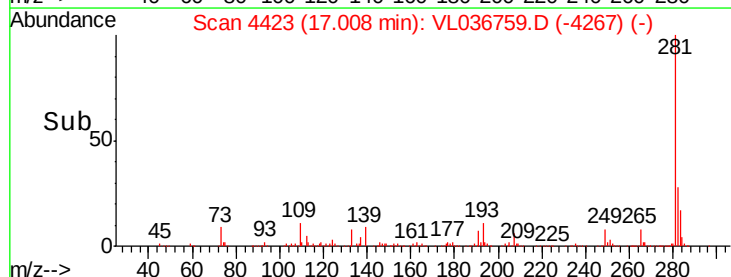


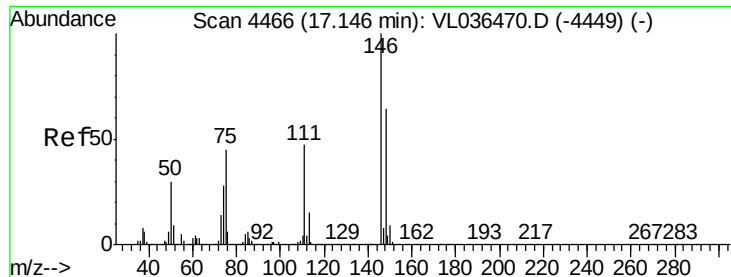
Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

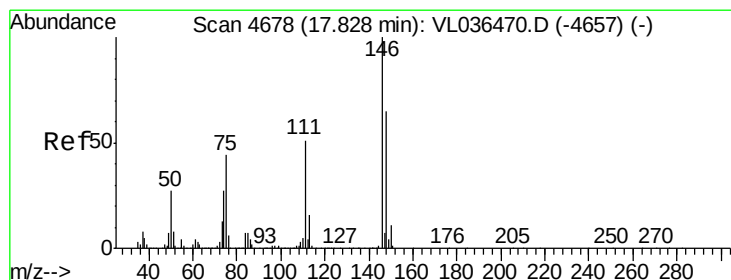
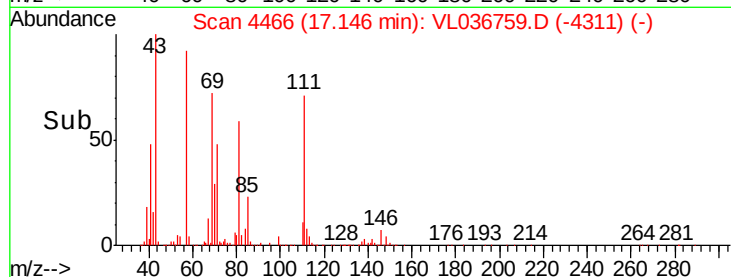
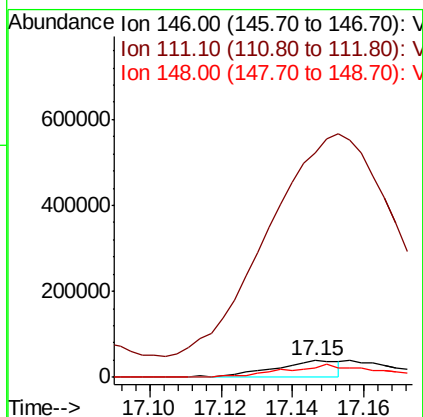
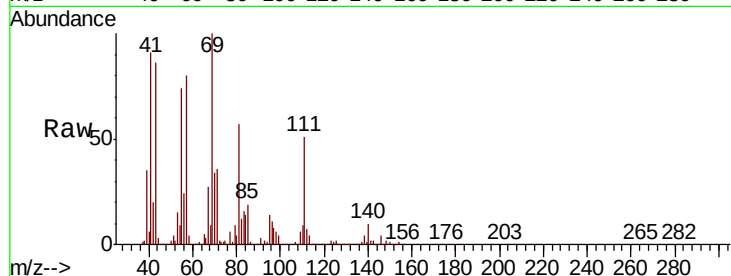




#76
 1,4-Dichlorobenzene
 Concen: 0.251 ppbv
 RT: 17.15 min Scan# 4466
 Delta R.T. -0.00 min
 Lab File: VL036759.D
 Acq: 8 Apr 2021 20:36

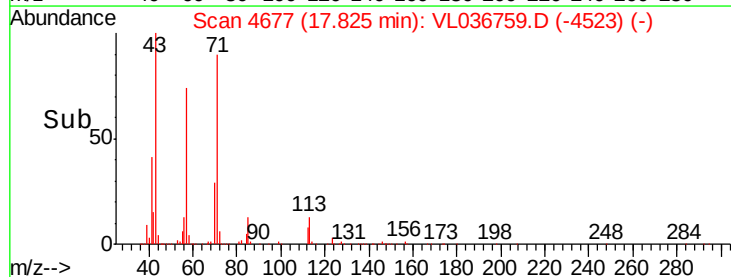
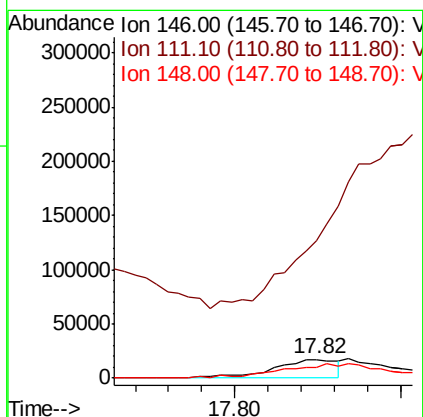
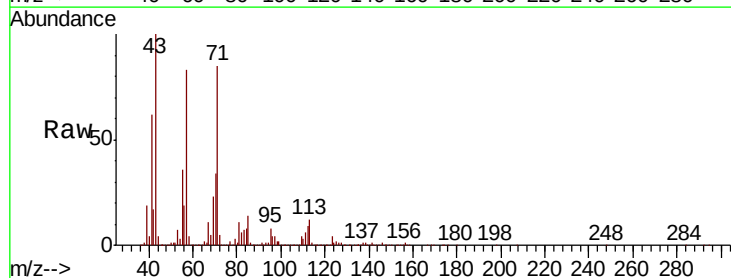
Instrument :
 MSVOA_L
 ClientSampled :
 SG-3

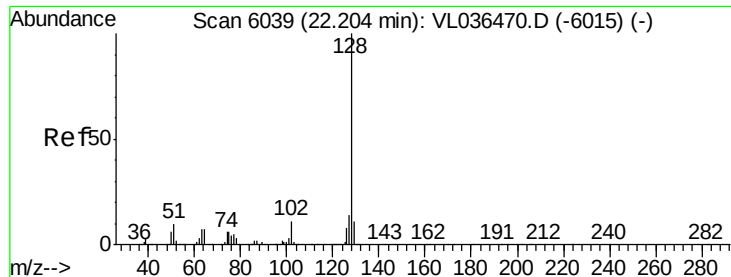
Tot Ion:146 Resp: 48216
 Ion Ratio Lower Upper
 146 100
 111 0.0 24.3 72.8#
 148 0.0 33.0 98.9#



#77
 1,2-Dichlorobenzene
 Concen: 0.128 ppbv
 RT: 17.82 min Scan# 4677
 Delta R.T. -0.00 min
 Lab File: VL036759.D
 Acq: 8 Apr 2021 20:36

Tgt Ion:146 Resp: 23349
 Ion Ratio Lower Upper
 146 100
 111 0.0 25.5 76.5#
 148 134.0 32.9 98.6#





#79

Naphthalene

Concen: 0.842 ppbv

RT: 22.20 min Scan# 6038

Delta R.T. -0.00 min

Lab File: VL036759.D

Acq: 8 Apr 2021 20:36

Instrument :

MSVOA_L

ClientSampleId :

SG-3

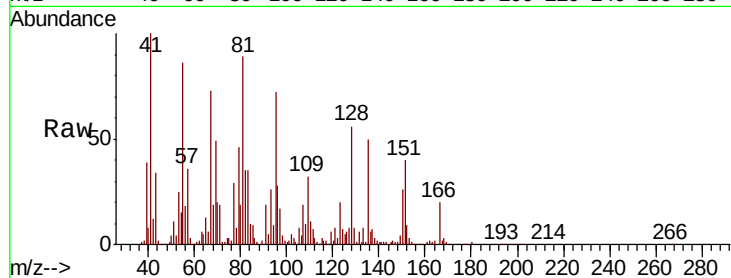
Tot Ion:128 Resp: 169073

Ion Ratio Lower Upper

128 100

127 10.9 10.9 16.3#

129 13.0 9.0 13.4



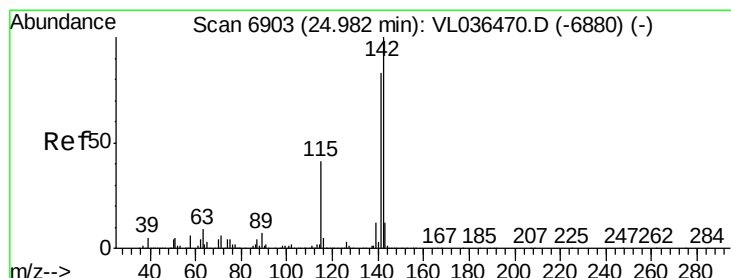
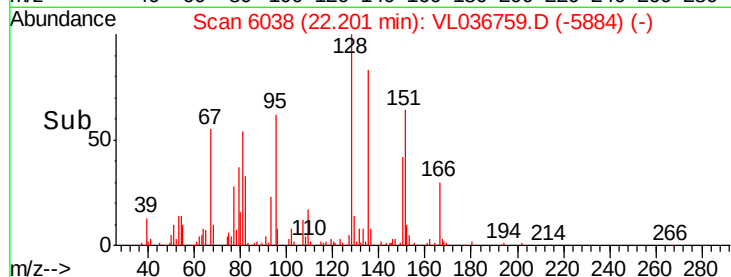
Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V

22.20

Time-->



#80

Naphthalene, 2-methyl-

Concen: 0.062 ppbv

RT: 24.99 min Scan# 6907

Delta R.T. 0.01 min

Lab File: VL036759.D

Acq: 8 Apr 2021 20:36

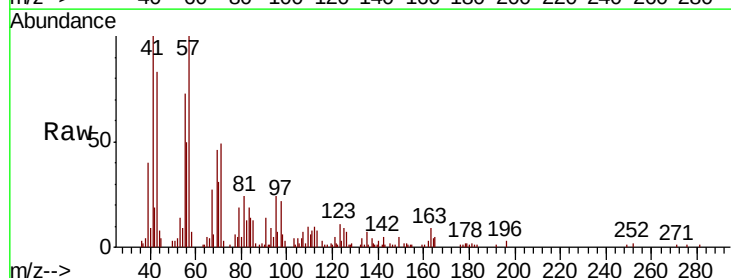
Tgt Ion:142 Resp: 2451

Ion Ratio Lower Upper

142 100

141 0.0 67.8 101.8#

115 54.4 34.0 51.0#



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

24.99

Time-->

