

Data File : VL036787.D

Acq On : 12 Apr 2021 12:32

Operator : SY/AP

Sample : VL0412ABS01

Misc : 400mL/MSVOA_L

ALS Vial : 1 Sample Multiplier: 1

Instrument :

MSVOA_L

ClientSampleId :

VL0412ABS01

Quant Time: Apr 12 16:20:30 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	5.68	49	1483801	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	3842543	10.00	ppbv	0.01
55) Chlorobenzene-d5	12.11	117	4047801	10.00	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	2224868	6.90	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	69.00%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.05	85	1900991	7.855	ppbv	97
3) Chlorodifluoromethane	2.99	51	2641055	9.527	ppbv	99
4) Chloromethane	3.15	50	959967	9.803	ppbv	99
5) Vinyl Chloride	3.26	62	964160	9.576	ppbv	99
6) Bromomethane	3.48	94	535118	9.653	ppbv	96
7) Chloroethane	3.56	64	337950	9.768	ppbv	95
8) Dichlorotetrafluoroethane	3.20	85	2188231	9.474	ppbv	98
9) Propene	3.02	41	869603	9.839	ppbv	99
10) Heptane	8.14	43	2218373	9.853	ppbv	98
11) Trichlorofluoromethane	3.96	101	2243093	9.095	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.50	101	1521500	9.649	ppbv	98
13) Ethanol	3.62	45	129152	12.272	ppbv	95
14) Bromoethene	3.75	108	665109	10.146	ppbv	98
15) Acetone	3.86	43	1299107	8.896	ppbv	99
16) 1,3-Butadiene	3.34	39	981124	9.650	ppbv	97
17) tert-Butyl alcohol	4.30	59	1574137	12.382	ppbv	99
18) 1,1-Dichloroethene	4.30	96	692044	9.866	ppbv	91
19) Isopropyl Alcohol	3.98	45	956847	11.911	ppbv #	96
20) Methylene Chloride	4.36	84	605649	8.858	ppbv	96
21) Allyl Chloride	4.42	41	1189257	10.215	ppbv	98
22) trans-1,2-Dichloroethene	4.90	96	656750	10.099	ppbv	90
23) Vinyl Acetate	5.09	43	2540166	10.168	ppbv	98
24) 1,1-Dichloroethane	5.02	63	1804499	9.910	ppbv	99
25) Ethyl Acetate	5.69	43	3441134	9.911	ppbv	99
26) Hexane	5.70	57	1602645	9.947	ppbv	99
27) Carbon Disulfide	4.56	76	1713841	10.798	ppbv	98
28) Methyl tert-Butyl Ether	5.05	73	1992020	10.484	ppbv	99
29) Chloroform	5.77	83	2505116	9.722	ppbv	100
30) Cyclohexane	7.15	84	1382564	10.580	ppbv	96
31) cis-1,2-Dichloroethene	5.56	61	1602912	10.286	ppbv	95
32) 1,1,1-Trichloroethane	6.53	97	2552133	9.828	ppbv	99
34) 2-Butanone	5.26	43	1690847	9.015	ppbv	96
35) Carbon Tetrachloride	7.03	117	2666844	9.036	ppbv	97
36) Benzene	6.91	78	3382065	9.543	ppbv	99
37) 1,2-Dichloroethane	6.32	62	1934987	9.277	ppbv	100
38) Trichloroethene	7.85	130	1213265	8.797	ppbv	99
39) 1,2-Dichloropropane	7.63	63	1306665	9.089	ppbv	96
40) 1,4-Dioxane	7.86	88	166272	4.970	ppbv #	1
41) Tetrahydrofuran	6.06	42	826883	9.561	ppbv	95
42) Bromodichloromethane	7.81	83	2712756	9.562	ppbv	99
43) Methyl Methacrylate	8.03	69	1204945	10.125	ppbv	97

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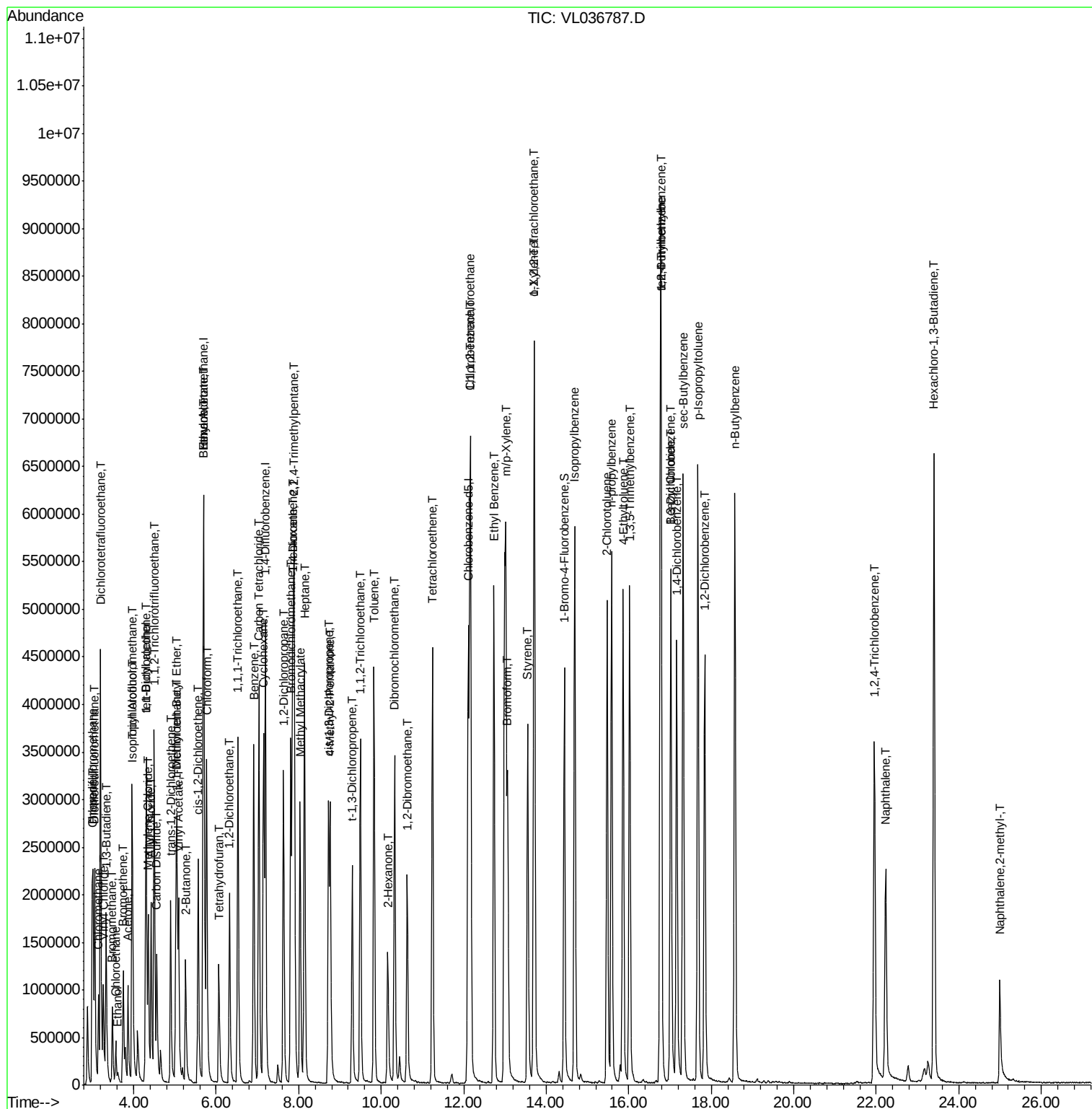
Response via : Initial Calibration

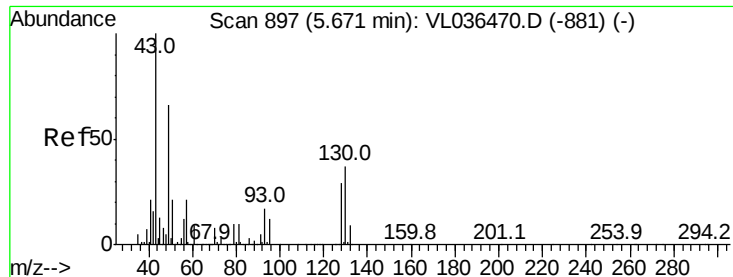
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.89	57	5603600	8.984	ppbv	98
45) t-1,3-Dichloropropene	9.30	75	1469225	10.812	ppbv	99
46) cis-1,3-Dichloropropene	8.72	75	1820166	10.479	ppbv	97
47) 1,1,2-Trichloroethane	9.50	97	1359623	9.338	ppbv	96
48) Dibromochloromethane	10.32	129	2259785	10.181	ppbv	98
49) Bromoform	13.06	173	1795544	10.040	ppbv	97
50) 4-Methyl-2-Pentanone	8.76	43	2586338	9.530	ppbv	99
51) 2-Hexanone	10.16	43	1377458	10.057	ppbv #	97
52) Tetrachloroethene	11.24	164	1125610	8.626	ppbv	95
53) Toluene	9.82	91	3743642	9.920	ppbv	99
54) 1,2-Dibromoethane	10.63	107	1959090	9.527	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.15	131	1492966	8.155	ppbv	94
57) Chlorobenzene	12.17	112	2744220	7.968	ppbv	97
58) Ethyl Benzene	12.73	91	4976961	8.451	ppbv	99
59) m/p-Xylene	13.01	91	4777511	9.301	ppbv #	47
60) o-Xylene	13.72	91	3927488	7.908	ppbv	99
61) Styrene	13.55	104	2350142	9.406	ppbv	99
62) Isopropylbenzene	14.69	105	5350158	7.999	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.70	83	2852840	7.530	ppbv	99
64) n-propylbenzene	15.58	120	1392038	8.513	ppbv	98
65) tert-Butylbenzene	16.77	119	4644086	8.008	ppbv	100
66) Benzyl Chloride	17.01	91	655685	10.229	ppbv	99
67) sec-Butylbenzene	17.32	105	6509651	7.952	ppbv	100
69) p-Isopropyltoluene	17.68	119	5382254	8.419	ppbv	99
70) n-Butylbenzene	18.57	91	5567584	8.400	ppbv	99
71) 2-Chlorotoluene	15.48	91	4116085	8.213	ppbv	99
72) 4-Ethyltoluene	15.86	105	4506417	8.281	ppbv	98
73) 1,3,5-Trimethylbenzene	16.02	105	4278494	8.423	ppbv	99
74) 1,2,4-Trimethylbenzene	16.79	105	4345396	7.994	ppbv	97
75) 1,3-Dichlorobenzene	17.02	146	2554302	8.349	ppbv	100
76) 1,4-Dichlorobenzene	17.16	146	2497205	8.221	ppbv	99
77) 1,2-Dichlorobenzene	17.84	146	2411588	8.385	ppbv	100
78) Hexachloro-1,3-Butadiene	23.40	225	1783194	6.923	ppbv	100
79) Naphthalene	22.23	128	3021382	9.526	ppbv	98
80) Naphthalene,2-methyl-	24.99	142	882473	14.109	ppbv	99
81) 1,2,4-Trichlorobenzene	21.96	180	1717519	8.770	ppbv	99

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

ALS Vial : 1 Sample Multiplier: 1

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 900

Delta R.T. 0.01 min

Lab File: VL036787.D

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Instrument :

MSVOA_L

ClientSampleId :

VL0412ABS01

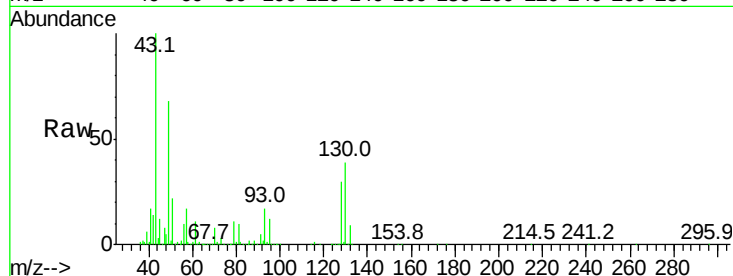
Tgt Ion: 49 Resp: 1483801

Ion Ratio Lower Upper

49 100

128 48.8 23.5 70.6

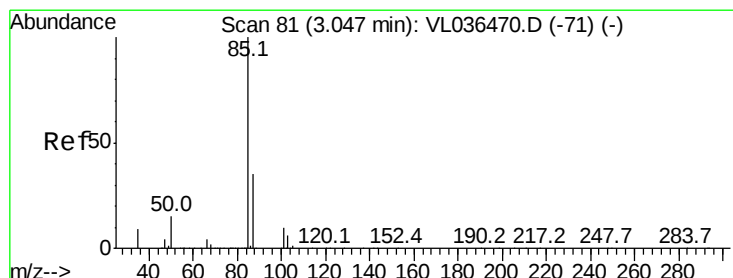
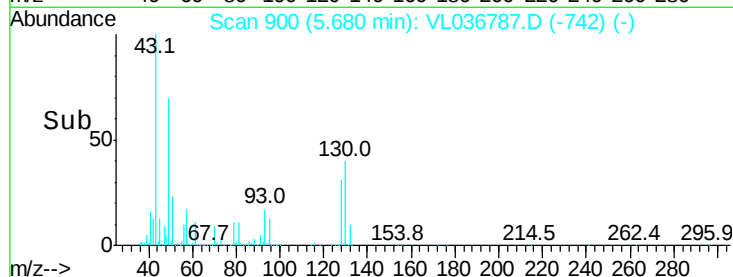
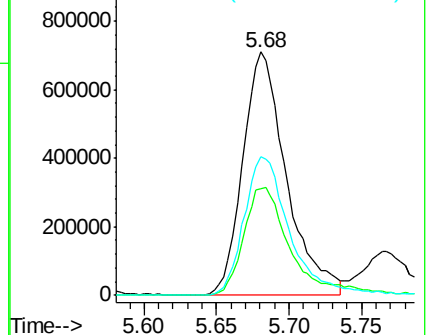
130 60.5 29.1 87.4



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: 7.855 ppbv

RT: 3.05 min Scan# 83

Delta R.T. 0.01 min

Lab File: VL036787.D

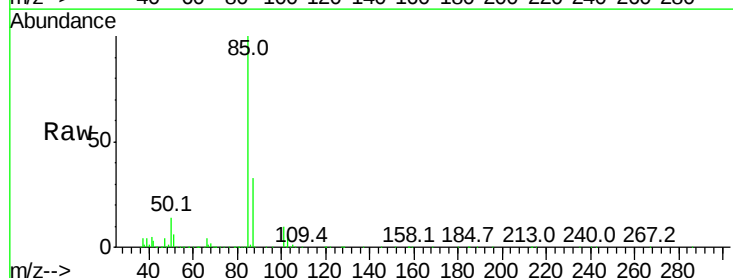
Acq: 12 Apr 2021 12:32

Tgt Ion: 85 Resp: 1900991

Ion Ratio Lower Upper

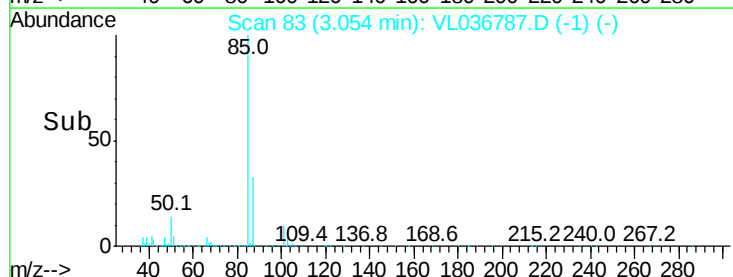
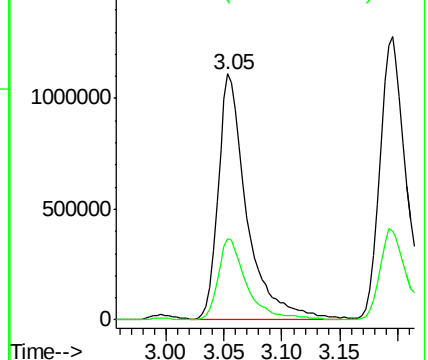
85 100

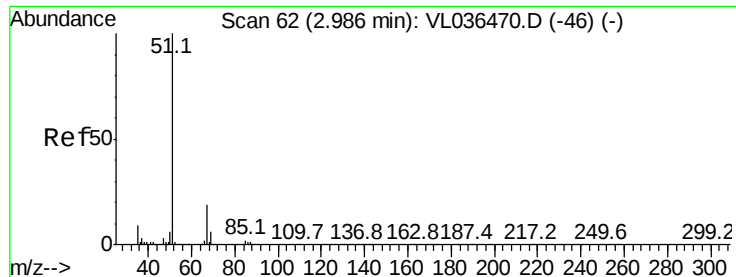
87 33.2 27.8 41.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

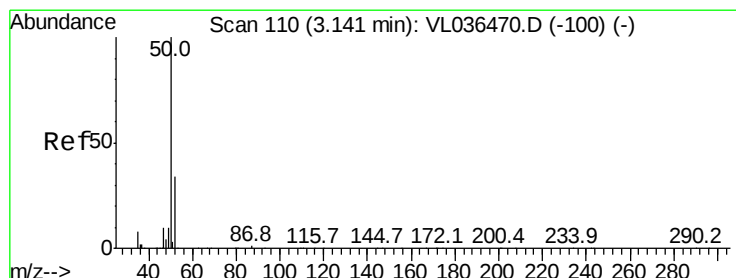
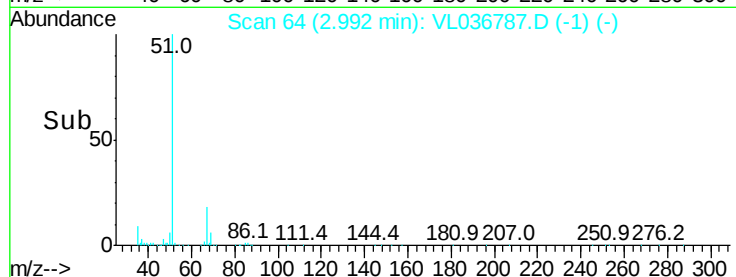
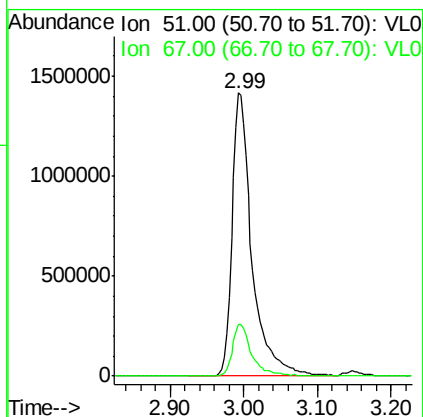
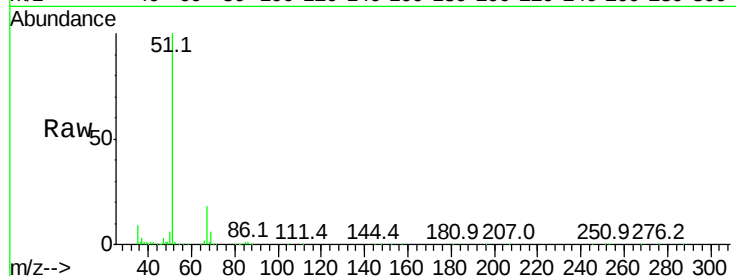




#3
Chlorodifluoromethane
Concen: 9.527 ppbv
RT: 2.99 min Scan# 64
Delta R.T. 0.01 min
Lab File: VL036787.D
Acq: 12 Apr 2021 12:32

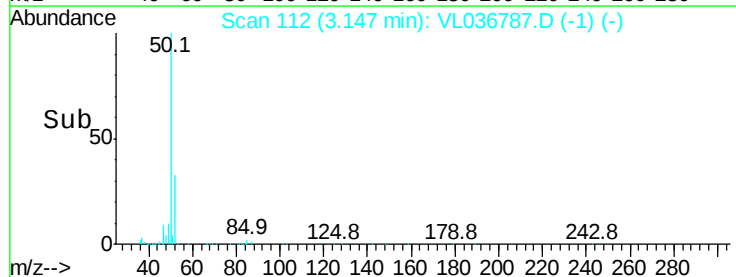
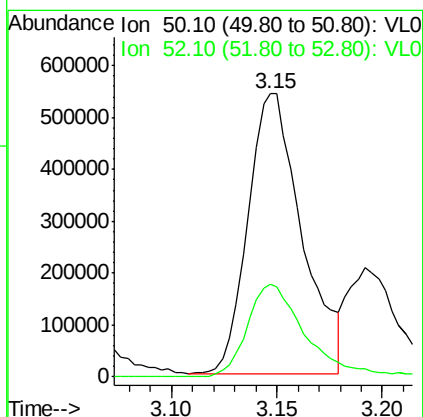
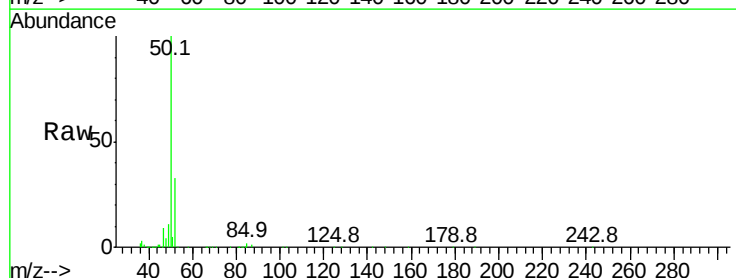
Instrument :
MSVOA_L
ClientSampleId :
VL0412ABS01

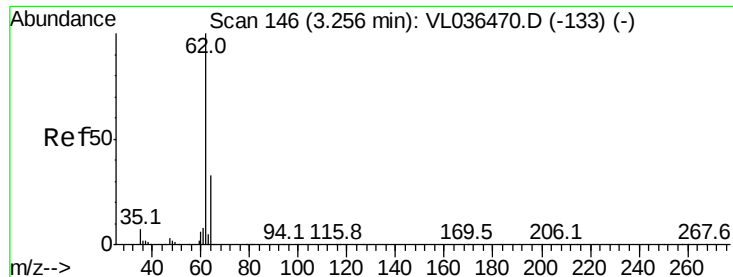
Tgt Ion: 51 Resp: 2641055
Ion Ratio Lower Upper
51 100
67 18.1 14.7 22.1



#4
Chloromethane
Concen: 9.803 ppbv
RT: 3.15 min Scan# 112
Delta R.T. 0.01 min
Lab File: VL036787.D
Acq: 12 Apr 2021 12:32

Tgt Ion: 50 Resp: 959967
Ion Ratio Lower Upper
50 100
52 33.3 27.0 40.6





#5

Vinyl Chloride

Concen: 9.576 ppbv

RT: 3.26 min Scan# 148

Delta R.T. 0.01 min

Lab File: VL036787.D

Acq: 12 Apr 2021 12:32

Instrument :

MSVOA_L

ClientSampleId :

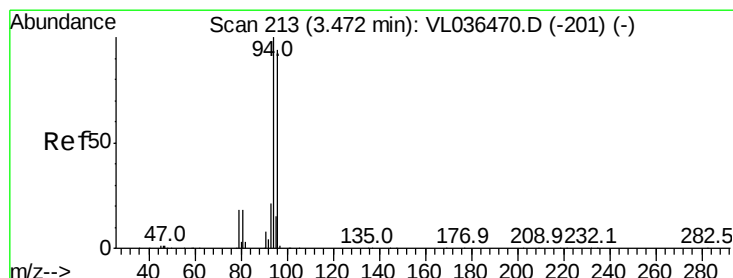
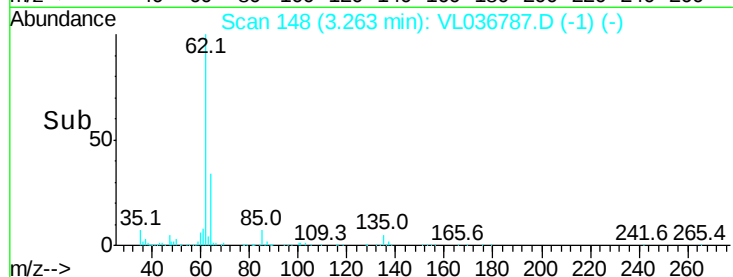
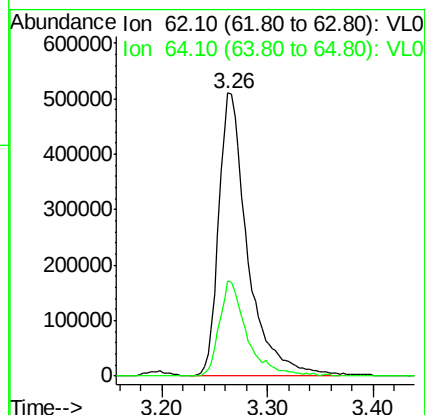
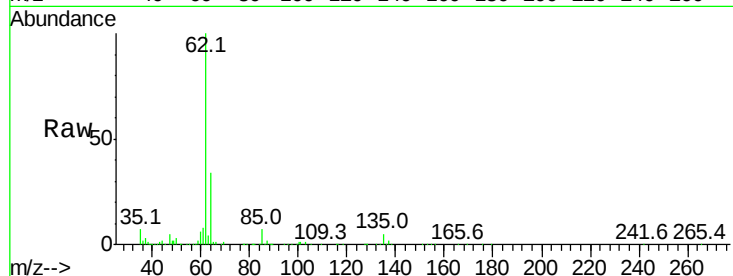
VL0412ABS01

Tgt Ion: 62 Resp: 964160

Ion Ratio Lower Upper

62 100

64 33.8 26.4 39.6



#6

Bromomethane

Concen: 9.653 ppbv

RT: 3.48 min Scan# 216

Delta R.T. 0.01 min

Lab File: VL036787.D

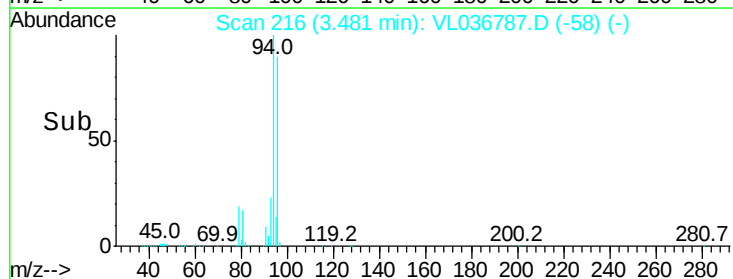
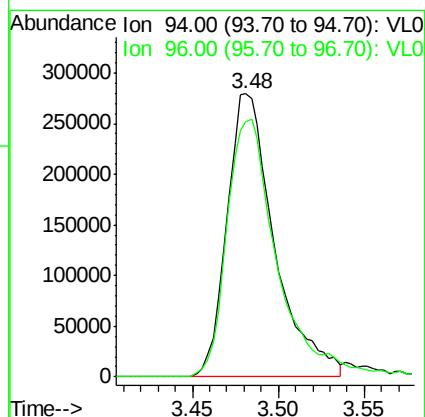
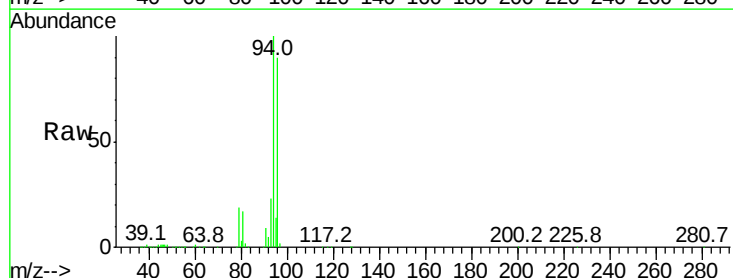
Acq: 12 Apr 2021 12:32

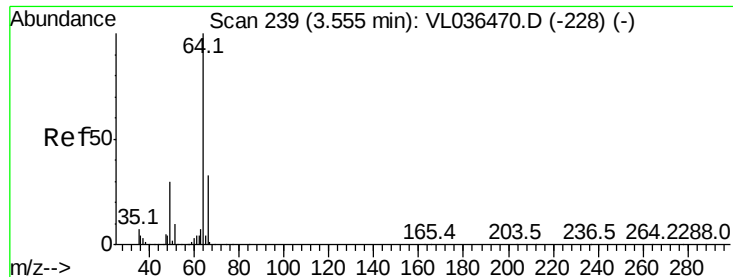
Tgt Ion: 94 Resp: 535118

Ion Ratio Lower Upper

94 100

96 89.9 74.9 112.3





#7

Chloroethane

Concen: 9.768 ppbv

RT: 3.56 min Scan# 242

Delta R.T. 0.01 min

Lab File: VL036787.D

Acq: 12 Apr 2021 12:32

Instrument :

MSVOA_L

ClientSampleId :

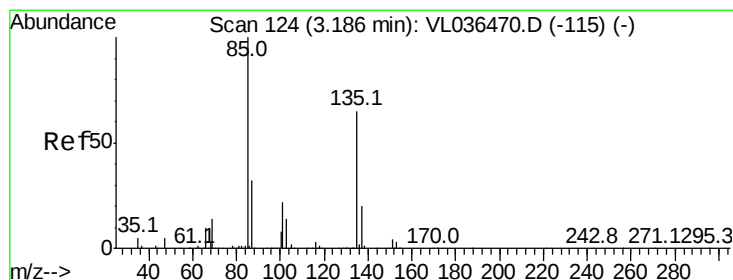
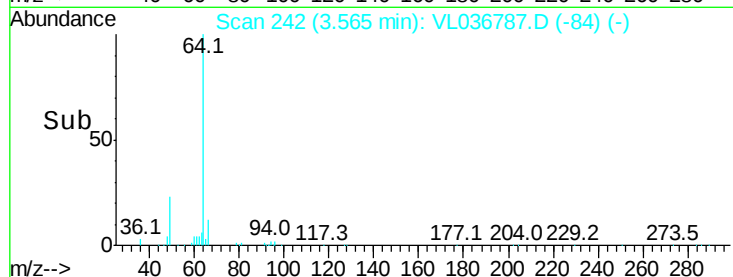
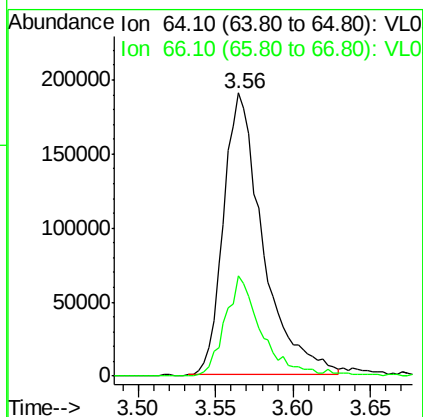
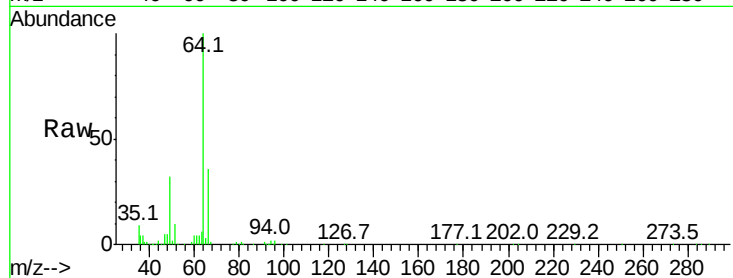
VL0412ABS01

Tgt Ion: 64 Resp: 337950

Ion Ratio Lower Upper

64 100

66 35.6 26.2 39.2



#8

Dichlorotetrafluoroethane

Concen: 9.474 ppbv

RT: 3.20 min Scan# 127

Delta R.T. 0.01 min

Lab File: VL036787.D

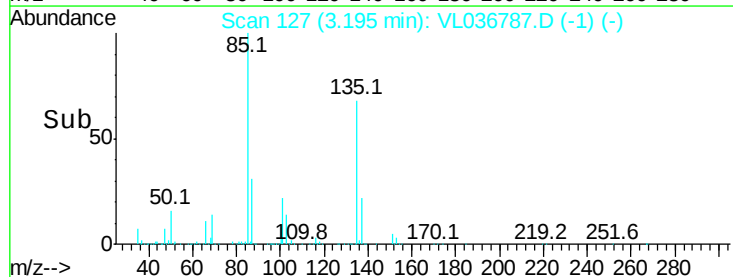
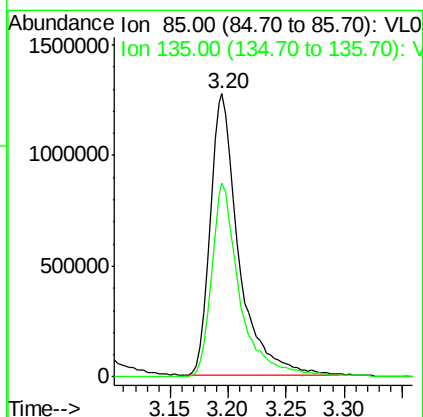
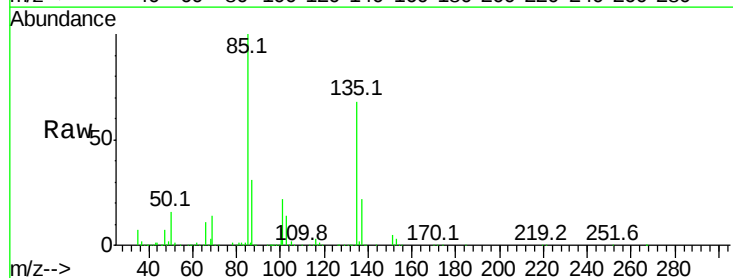
Acq: 12 Apr 2021 12:32

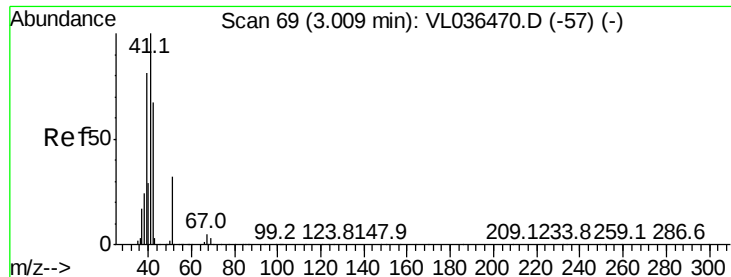
Tgt Ion: 85 Resp: 2188231

Ion Ratio Lower Upper

85 100

135 69.2 54.3 81.5





#9

Propene

Concen: 9.839 ppbv

RT: 3.02 min Scan# 72

Delta R.T. 0.01 min

Lab File: VL036787.D

Acq: 12 Apr 2021 12:32

Instrument :

MSVOA_L

ClientSampleId :

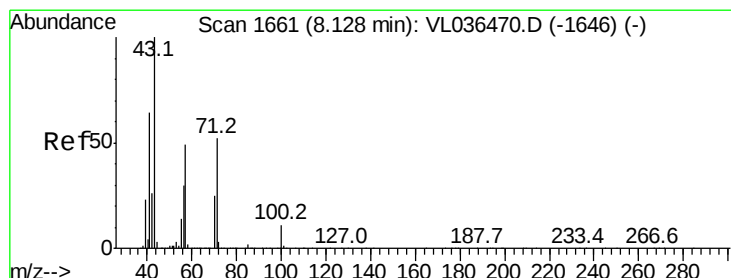
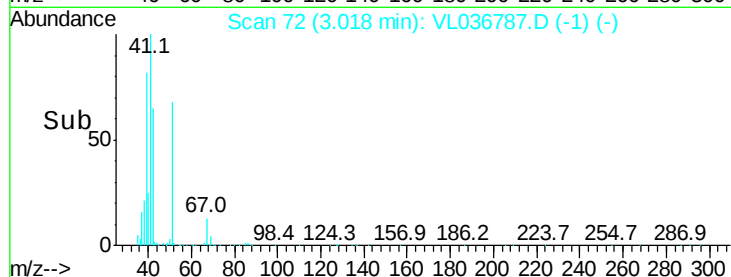
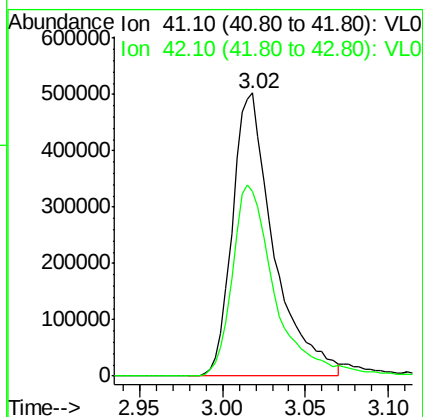
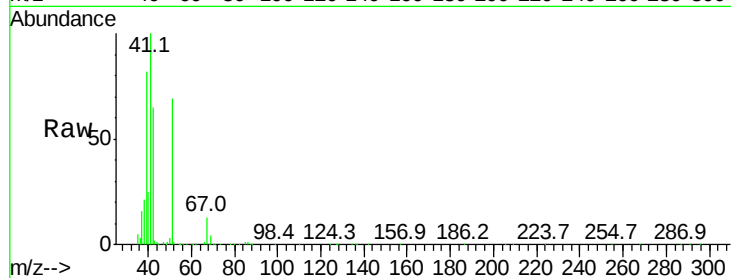
VL0412ABS01

Tgt Ion: 41 Resp: 869603

Ion Ratio Lower Upper

41 100

42 70.7 57.0 85.4



#10

Heptane

Concen: 9.853 ppbv

RT: 8.14 min Scan# 1666

Delta R.T. 0.02 min

Lab File: VL036787.D

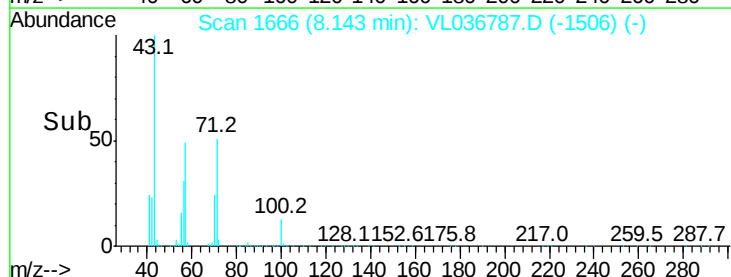
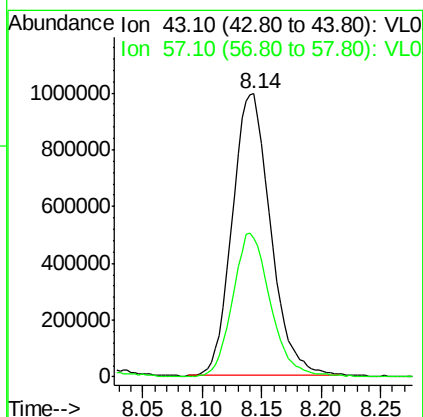
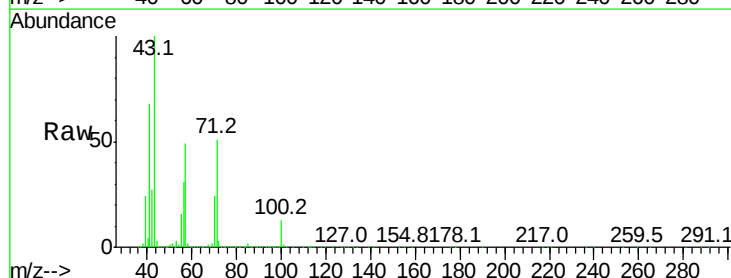
Acq: 12 Apr 2021 12:32

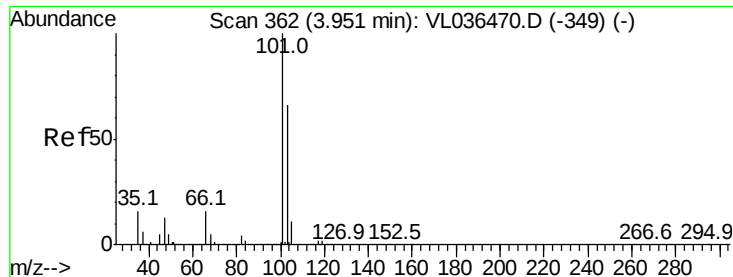
Tgt Ion: 43 Resp: 2218373

Ion Ratio Lower Upper

43 100

57 50.4 39.0 58.6

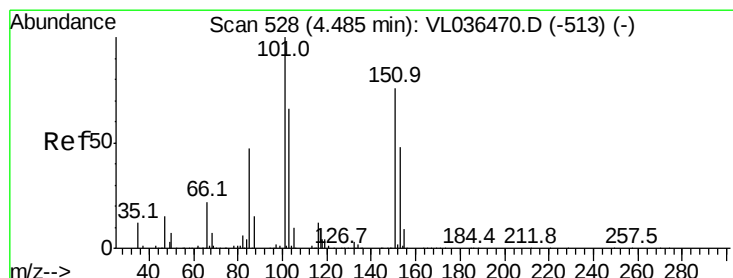
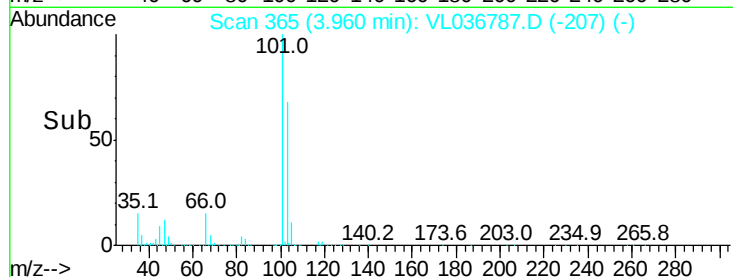
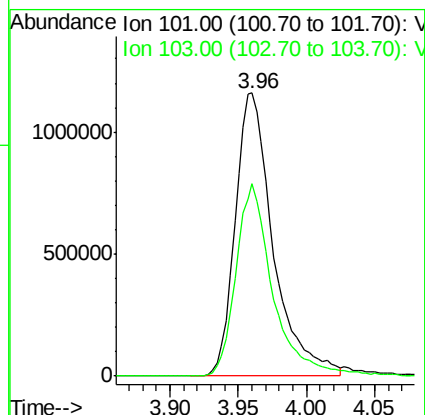
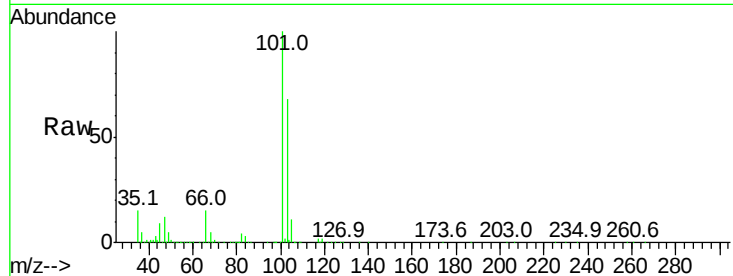




#11
 Trichlorofluoromethane
 Concen: 9.095 ppbv
 RT: 3.96 min Scan# 365
 Delta R.T. 0.01 min
 Lab File: VL036787.D
 Acq: 12 Apr 2021 12:32

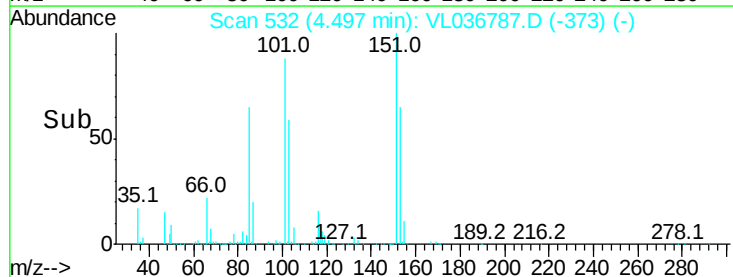
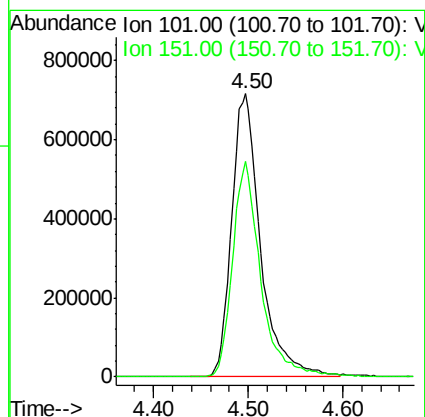
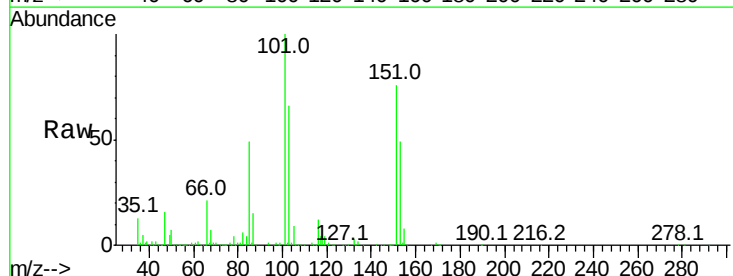
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0412ABS01

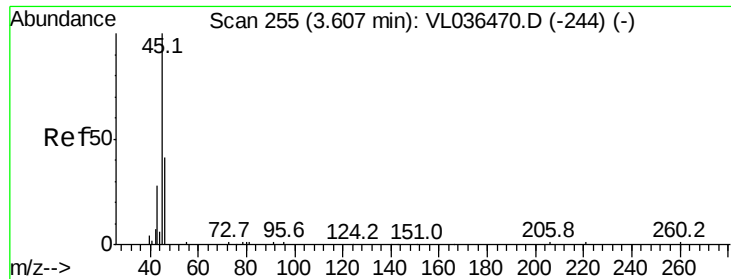
Tgt Ion:101 Resp: 2243093
 Ion Ratio Lower Upper
 101 100
 103 68.0 52.5 78.7



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.649 ppbv
 RT: 4.50 min Scan# 532
 Delta R.T. 0.01 min
 Lab File: VL036787.D
 Acq: 12 Apr 2021 12:32

Tgt Ion:101 Resp: 1521500
 Ion Ratio Lower Upper
 101 100
 151 74.6 60.9 91.3





#13

Ethanol

Concen: 12.272 ppbv

RT: 3.62 min Scan# 259

Delta R.T. 0.01 min

Lab File: VL036787.D

Acq: 12 Apr 2021 12:32

Instrument :

MSVOA_L

ClientSampleId :

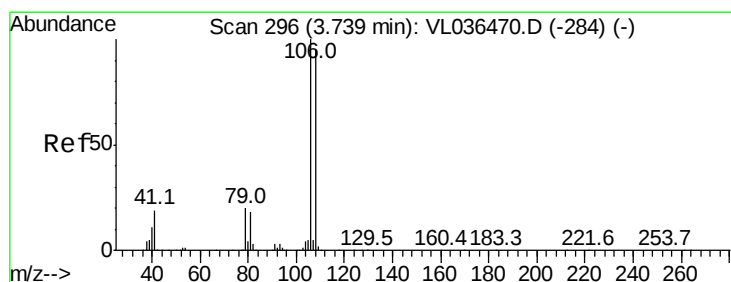
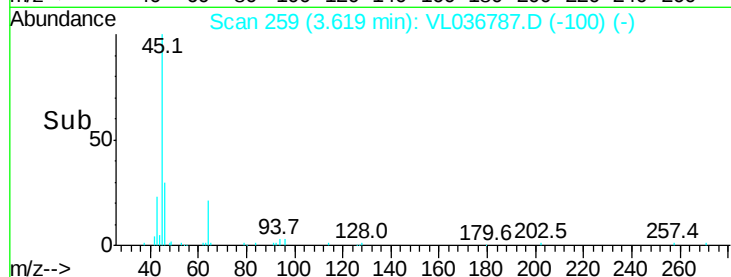
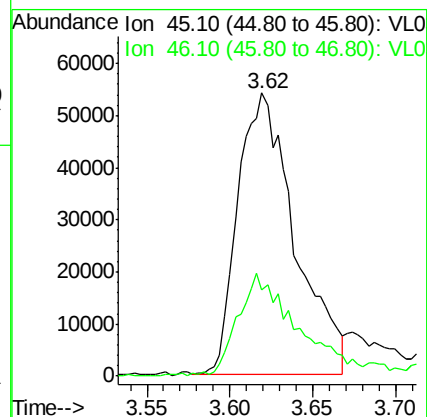
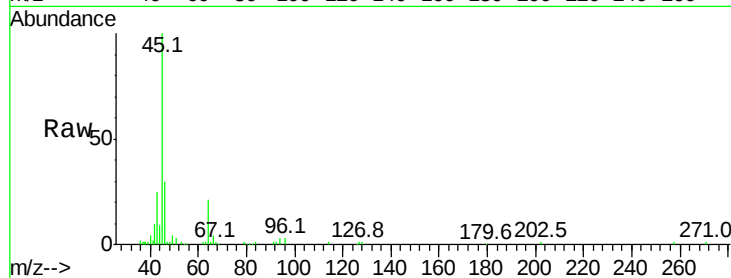
VL0412ABS01

Tgt Ion: 45 Resp: 129152

Ion Ratio Lower Upper

45 100

46 38.1 16.6 66.2



#14

Bromoethene

Concen: 10.146 ppbv

RT: 3.75 min Scan# 299

Delta R.T. 0.01 min

Lab File: VL036787.D

Acq: 12 Apr 2021 12:32

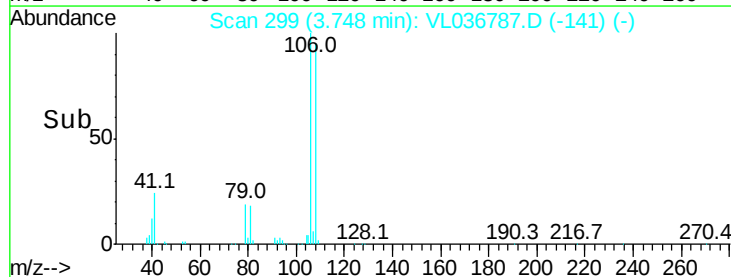
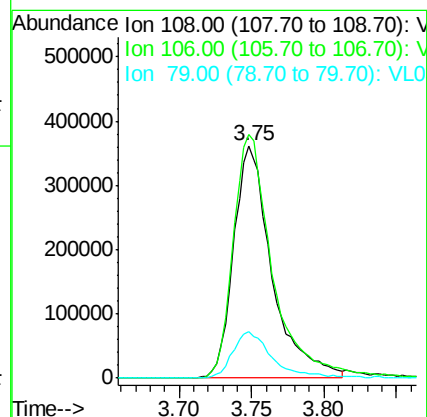
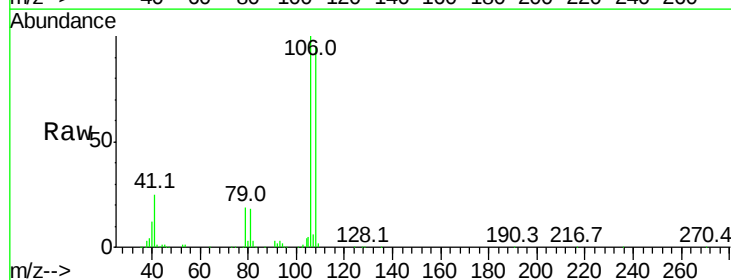
Tgt Ion: 108 Resp: 665109

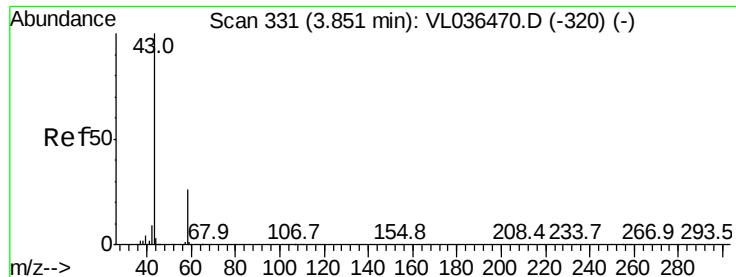
Ion Ratio Lower Upper

108 100

106 109.3 89.0 133.6

79 20.9 16.6 25.0





#15

Acetone

Concen: 8.896 ppbv

RT: 3.86 min Scan# 333

Delta R.T. 0.01 min

Lab File: VL036787.D

Acq: 12 Apr 2021 12:32

Instrument :

MSVOA_L

ClientSampleId :

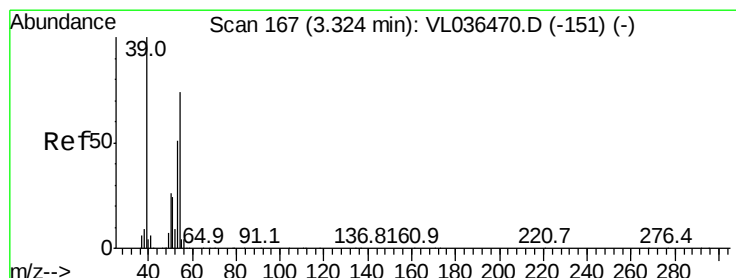
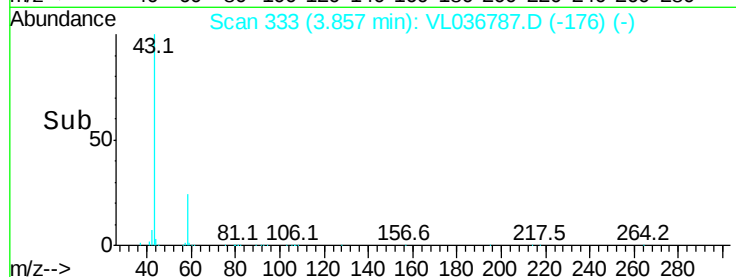
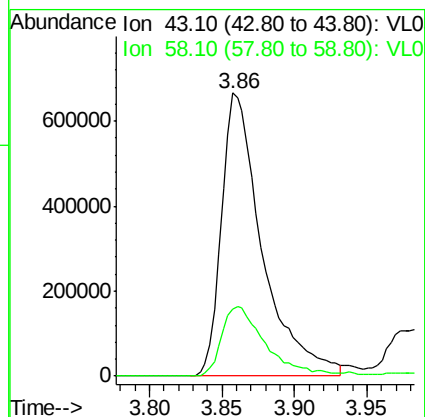
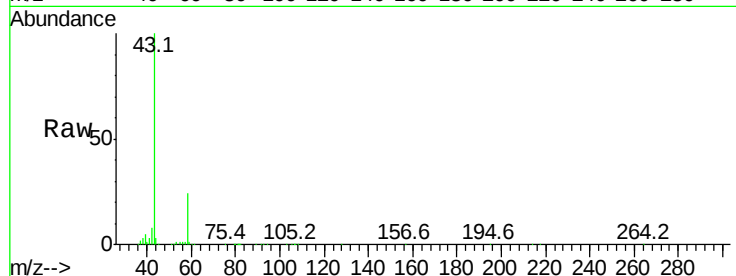
VL0412ABS01

Tgt Ion: 43 Resp: 1299107

Ion Ratio Lower Upper

43 100

58 27.0 21.2 31.8



#16

1,3-Butadiene

Concen: 9.650 ppbv

RT: 3.34 min Scan# 171

Delta R.T. 0.01 min

Lab File: VL036787.D

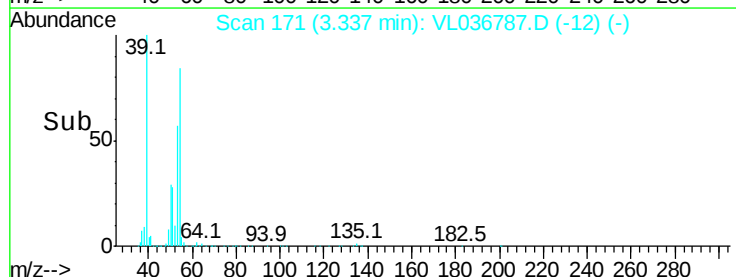
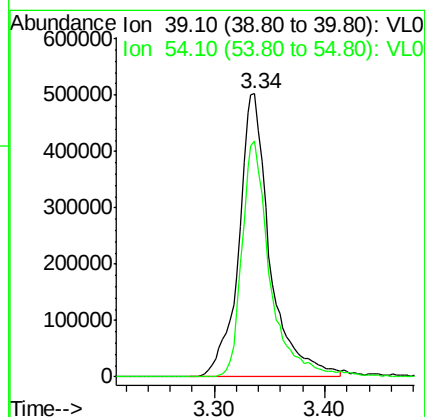
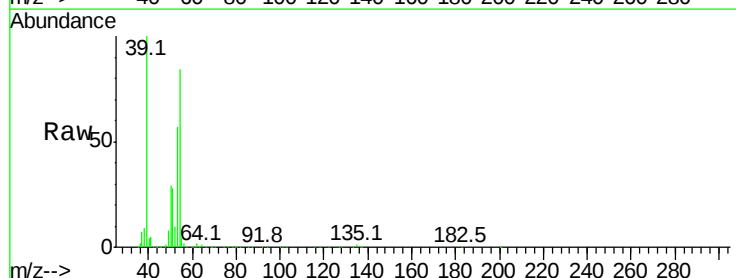
Acq: 12 Apr 2021 12:32

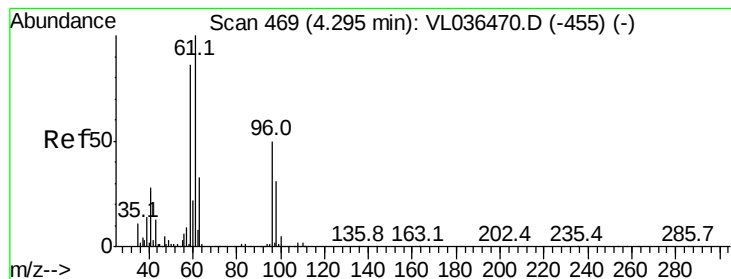
Tgt Ion: 39 Resp: 981124

Ion Ratio Lower Upper

39 100

54 76.0 58.8 88.2





#17

tert-Butyl alcohol

Concen: 12.382 ppbv

RT: 4.30 min Scan# 471

Delta R.T. 0.01 min

Lab File: VL036787.D

Acq: 12 Apr 2021 12:32

Instrument :

MSVOA_L

ClientSampleId :

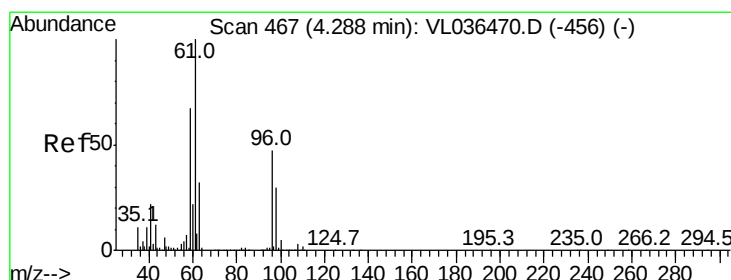
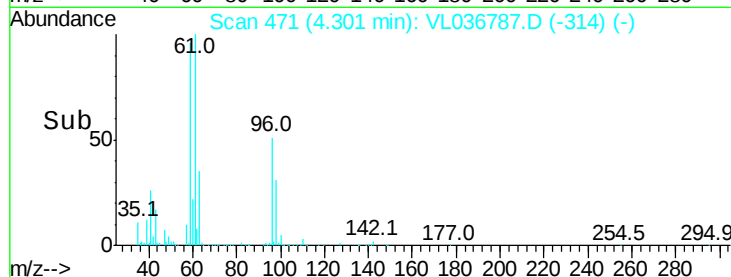
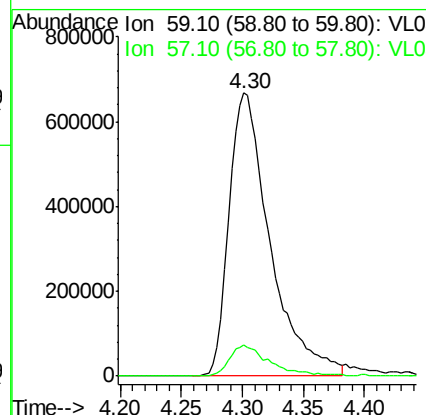
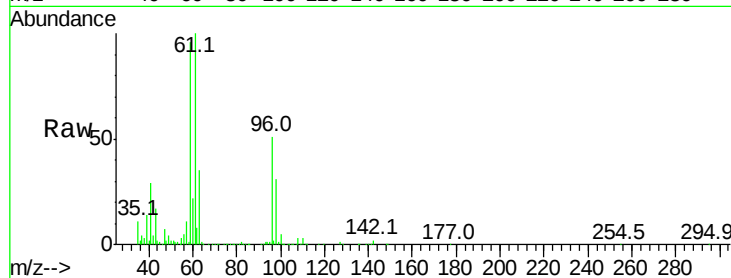
VL0412ABS01

Tgt Ion: 59 Resp: 1574137

Ion Ratio Lower Upper

59 100

57 11.3 8.6 12.8



#18

1,1-Dichloroethene

Concen: 9.866 ppbv

RT: 4.30 min Scan# 471

Delta R.T. 0.01 min

Lab File: VL036787.D

Acq: 12 Apr 2021 12:32

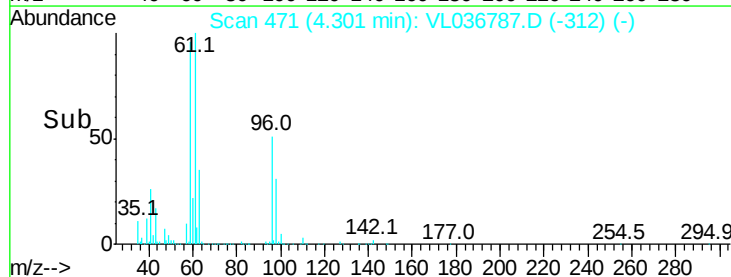
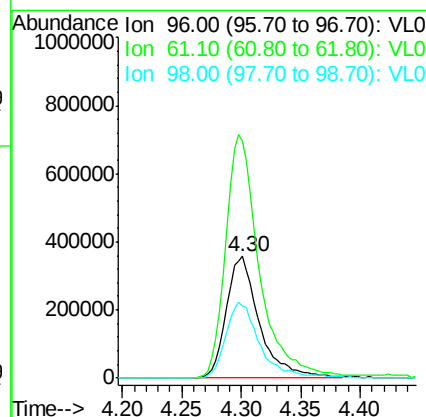
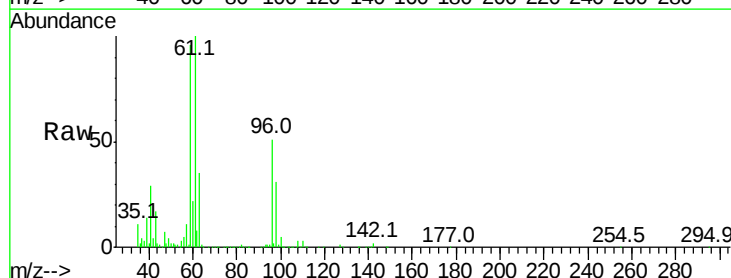
Tgt Ion: 96 Resp: 692044

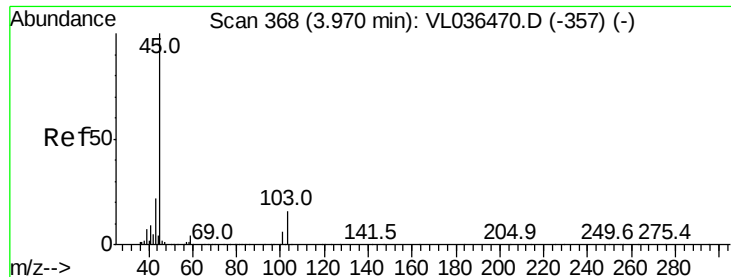
Ion Ratio Lower Upper

96 100

61 194.8 168.6 253.0

98 59.6 50.8 76.2





#19

Isopropyl Alcohol

Concen: 11.911 ppbv

RT: 3.98 min Scan# 370

Delta R.T. 0.01 min

Lab File: VL036787.D

Acq: 12 Apr 2021 12:32

Instrument :

MSVOA_L

ClientSampleId :

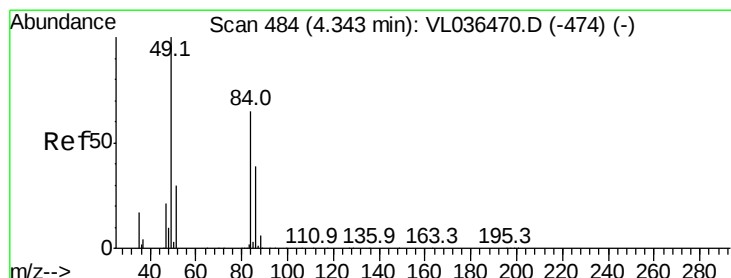
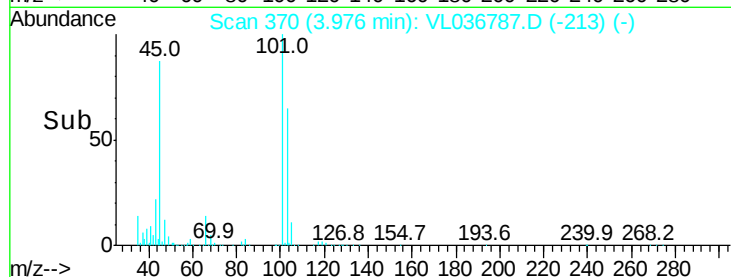
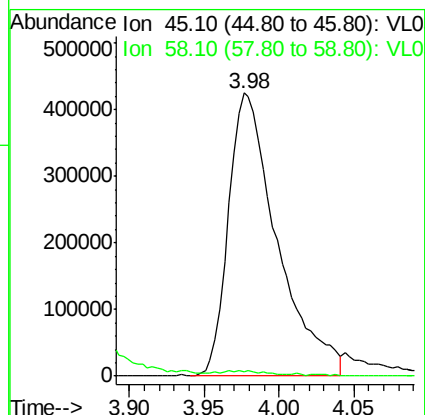
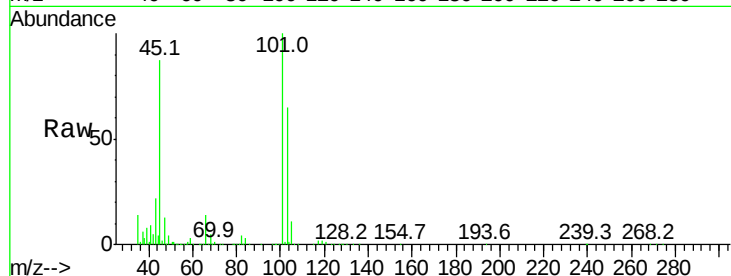
VL0412ABS01

Tgt Ion: 45 Resp: 956847

Ion Ratio Lower Upper

45 100

58 2.4 2.9 4.3#



#20

Methylene Chloride

Concen: 8.858 ppbv

RT: 4.36 min Scan# 488

Delta R.T. 0.01 min

Lab File: VL036787.D

Acq: 12 Apr 2021 12:32

Tgt Ion: 84 Resp: 605649

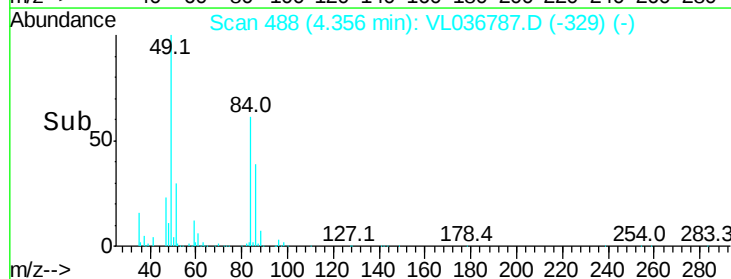
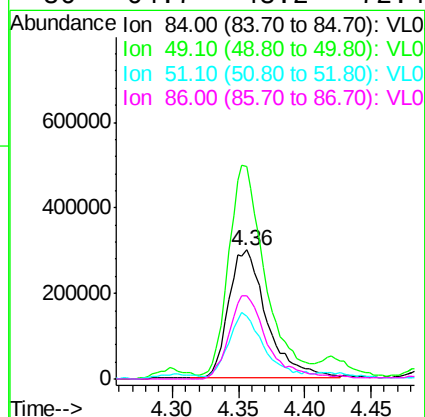
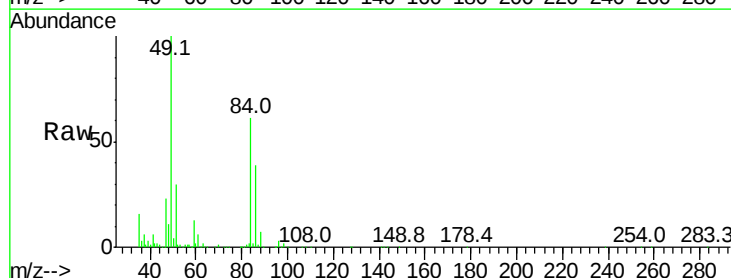
Ion Ratio Lower Upper

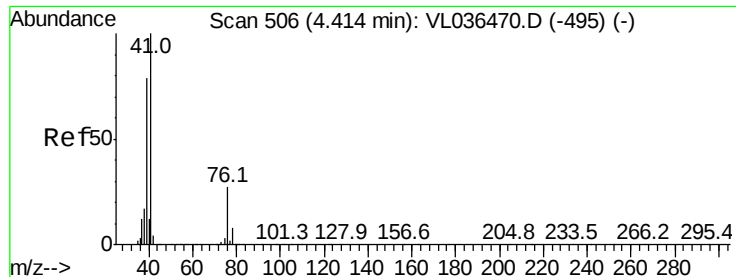
84 100

49 160.1 122.9 184.3

51 46.4 36.9 55.3

86 64.7 48.2 72.4





#21

Allyl Chloride

Concen: 10.215 ppbv

RT: 4.42 min Scan# 509

Delta R.T. 0.01 min

Lab File: VL036787.D

Acq: 12 Apr 2021 12:32

Instrument :

MSVOA_L

ClientSampleId :

VL0412ABS01

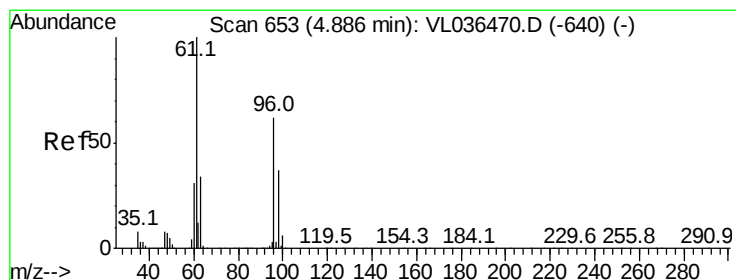
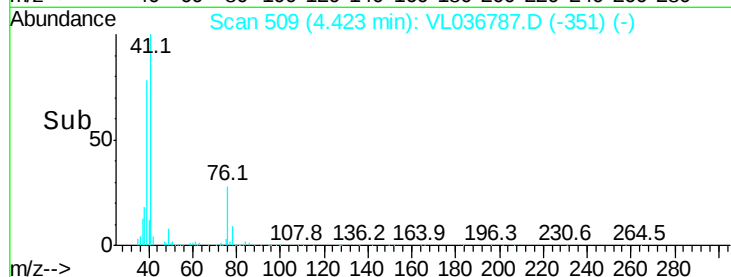
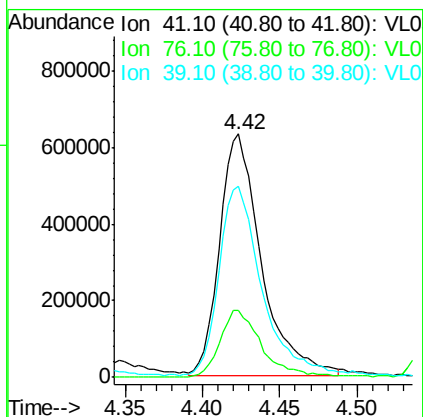
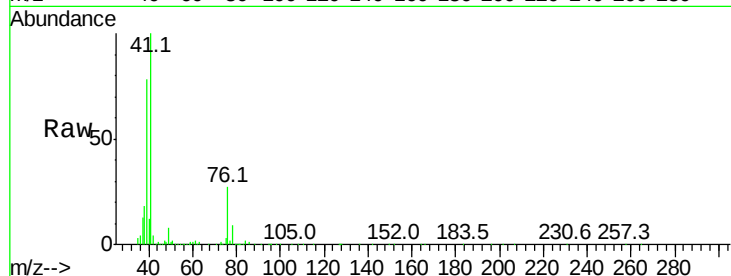
Tgt Ion: 41 Resp: 1189257

Ion Ratio Lower Upper

41 100

76 28.1 22.9 34.3

39 82.0 67.3 100.9



#22

trans-1,2-Dichloroethene

Concen: 10.099 ppbv

RT: 4.90 min Scan# 656

Delta R.T. 0.01 min

Lab File: VL036787.D

Acq: 12 Apr 2021 12:32

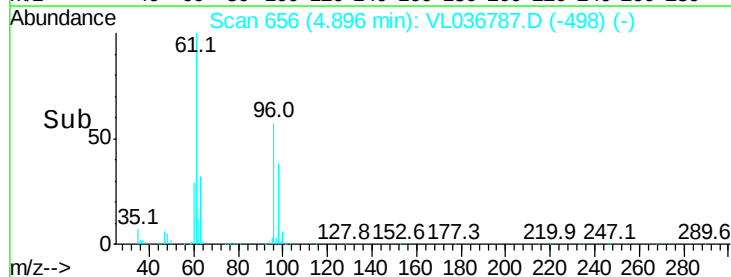
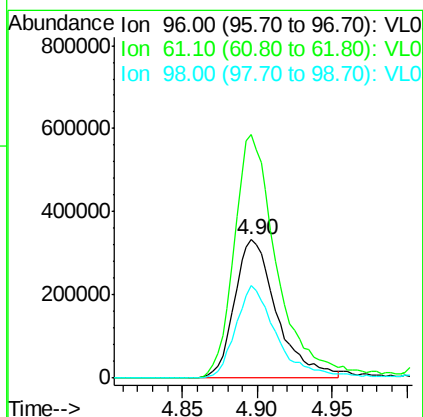
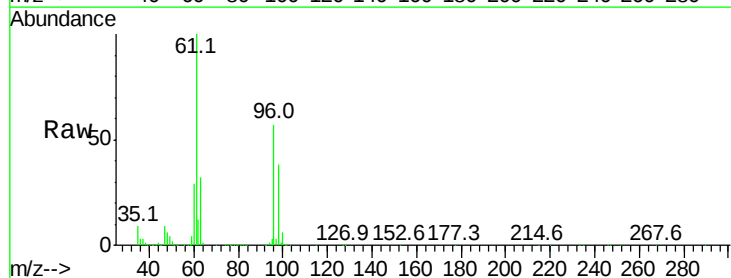
Tgt Ion: 96 Resp: 656750

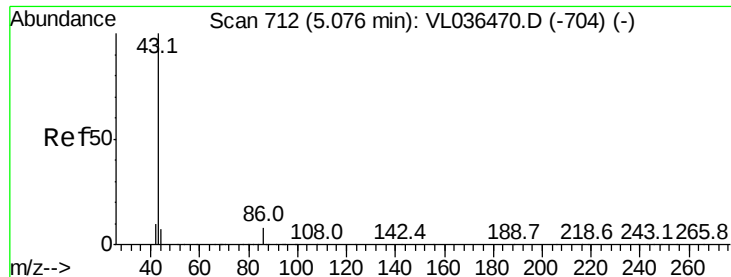
Ion Ratio Lower Upper

96 100

61 176.1 129.4 194.0

98 67.2 48.2 72.4





#23

Vinyl Acetate

Concen: 10.168 ppbv

RT: 5.09 min Scan# 715

Delta R.T. 0.01 min

Lab File: VL036787.D

Acq: 12 Apr 2021 12:32

Instrument :

MSVOA_L

ClientSampleId :

VL0412ABS01

Tgt Ion: 43 Resp: 2540166

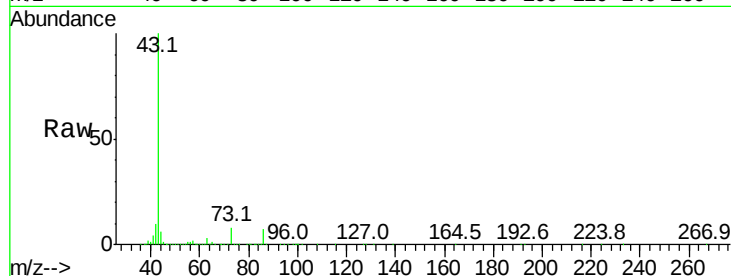
Ion	Ratio	Lower	Upper
43	100		
86	7.2	5.4	8.0
42	10.0	8.5	12.7
44	5.2	4.6	7.0

43 100

86 7.2 5.4 8.0

42 10.0 8.5 12.7

44 5.2 4.6 7.0

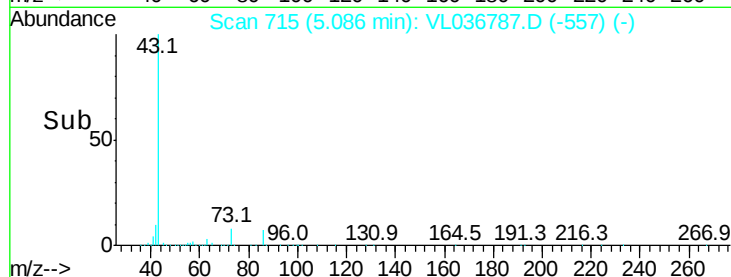


Abundance Ion 43.10 (42.80 to 43.80): VL0

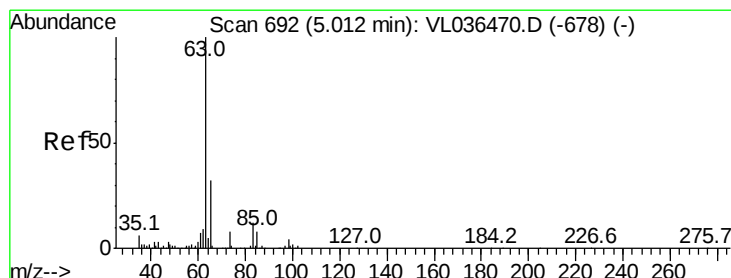
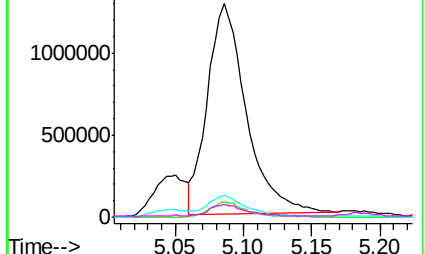
Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



Time-->



#24

1,1-Dichloroethane

Concen: 9.910 ppbv

RT: 5.02 min Scan# 696

Delta R.T. 0.01 min

Lab File: VL036787.D

Acq: 12 Apr 2021 12:32

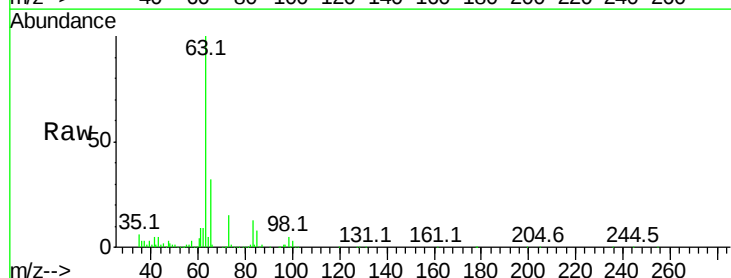
Tgt Ion: 63 Resp: 1804499

Ion	Ratio	Lower	Upper
63	100		
98	4.5	2.1	6.2
100	2.5	0.9	2.8

63 100

98 4.5 2.1 6.2

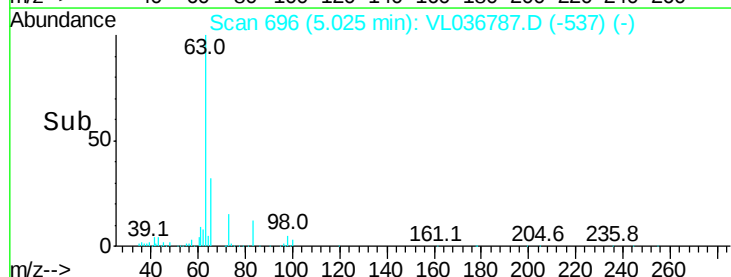
100 2.5 0.9 2.8



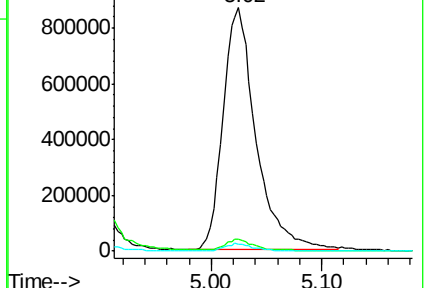
Abundance Ion 63.10 (62.80 to 63.80): VL0

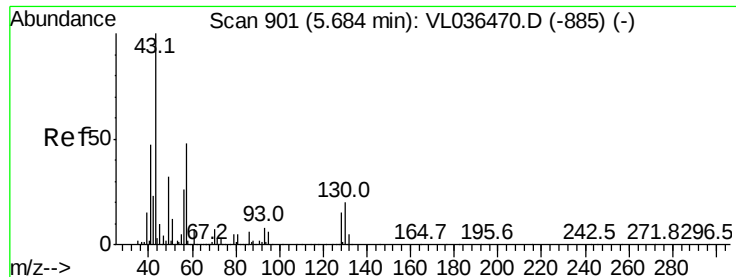
Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0



Time-->

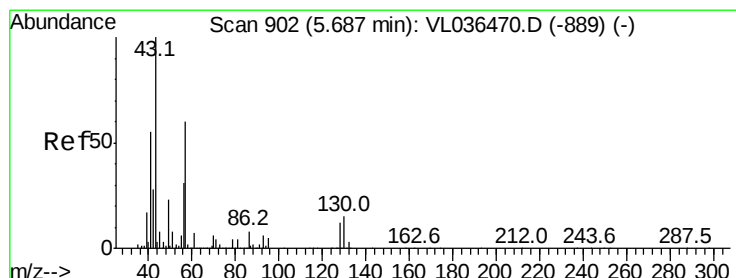
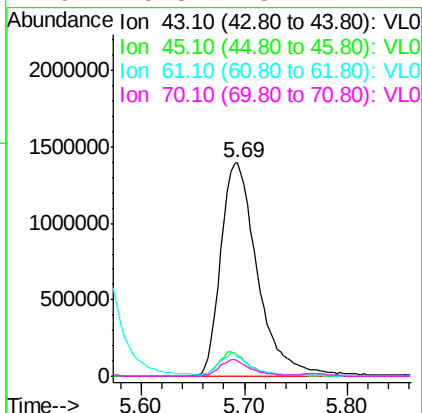
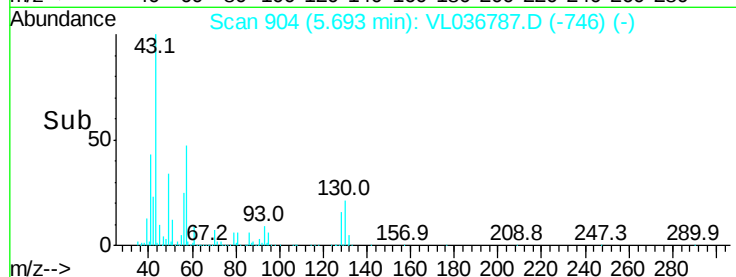
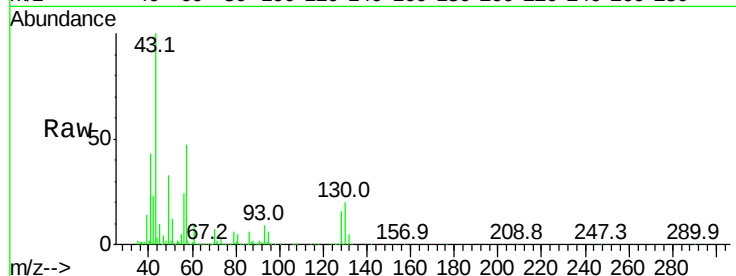




#25
Ethyl Acetate
Concen: 9.911 ppbv
RT: 5.69 min Scan# 904
Delta R.T. 0.01 min
Lab File: VL036787.D
Acq: 12 Apr 2021 12:32

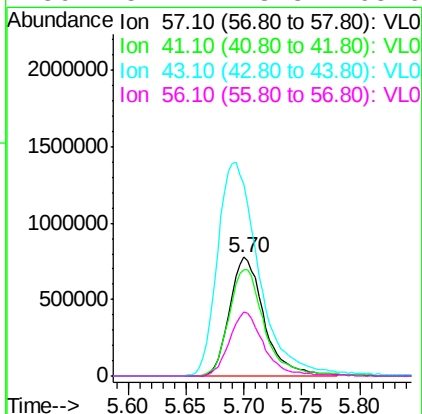
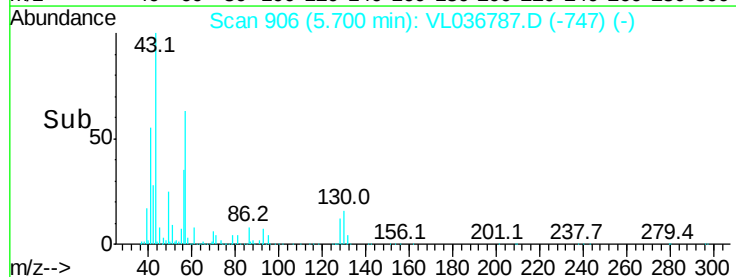
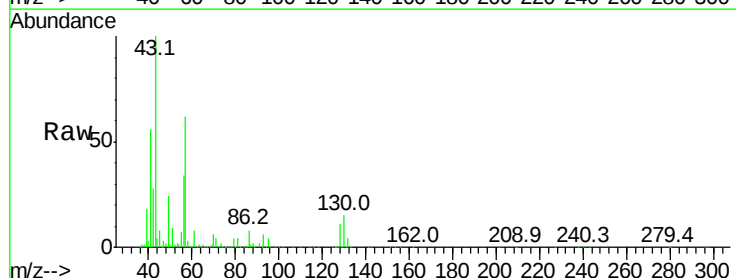
Instrument :
MSVOA_L
ClientSampleId :
VL0412ABS01

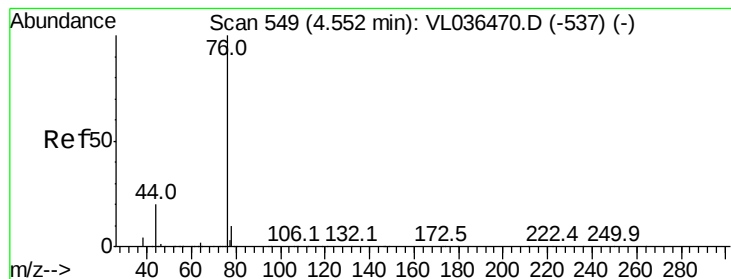
Tgt Ion: 43 Resp: 3441134
Ion Ratio Lower Upper
43 100
45 9.9 7.9 11.9
61 9.6 7.4 11.2
70 6.8 5.1 7.7



#26
Hexane
Concen: 9.947 ppbv
RT: 5.70 min Scan# 906
Delta R.T. 0.01 min
Lab File: VL036787.D
Acq: 12 Apr 2021 12:32

Tgt Ion: 57 Resp: 1602645
Ion Ratio Lower Upper
57 100
41 93.1 77.2 115.8
43 218.0 173.8 260.6
56 54.1 43.8 65.6





#27

Carbon Disulfide

Concen: 10.798 ppbv

RT: 4.56 min Scan# 552

Delta R.T. 0.01 min

Lab File: VL036787.D

Acq: 12 Apr 2021 12:32

Instrument :

MSVOA_L

ClientSampleId :

VL0412ABS01

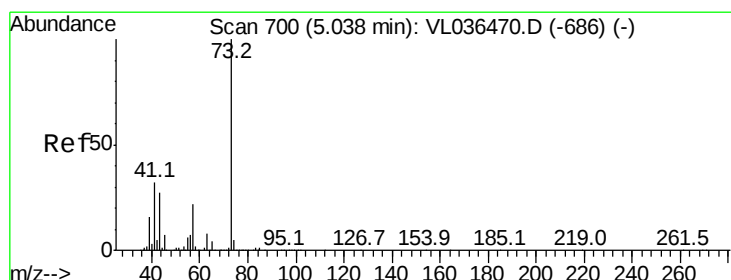
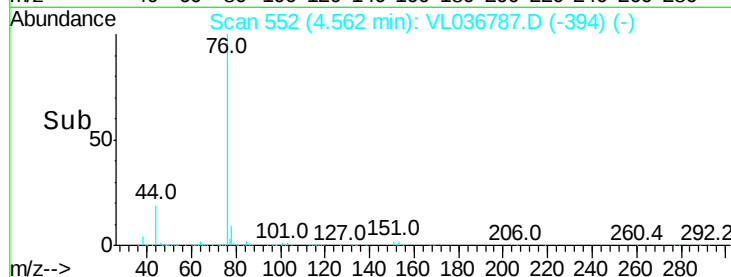
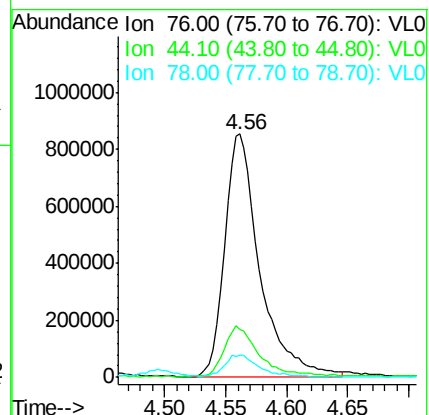
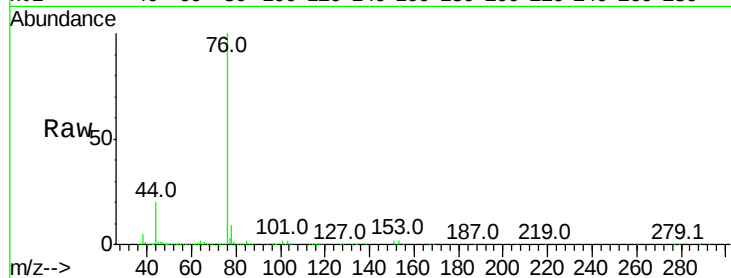
Tgt Ion: 76 Resp: 1713841

Ion Ratio Lower Upper

76 100

44 20.9 17.5 26.3

78 9.6 8.6 13.0



#28

Methyl tert-Butyl Ether

Concen: 10.484 ppbv

RT: 5.05 min Scan# 703

Delta R.T. 0.01 min

Lab File: VL036787.D

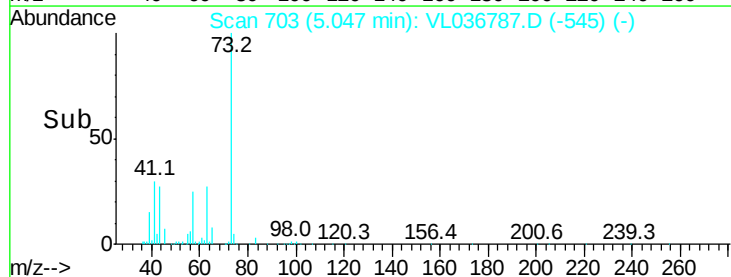
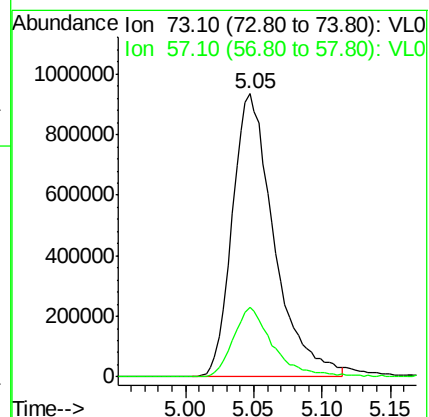
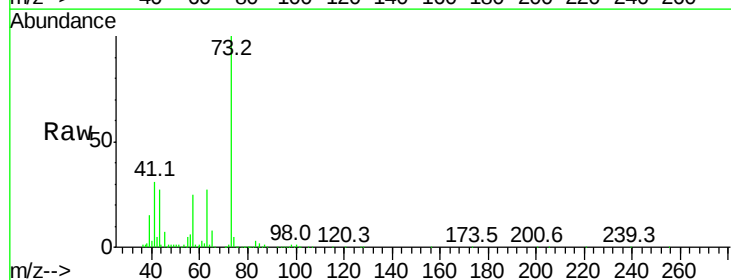
Acq: 12 Apr 2021 12:32

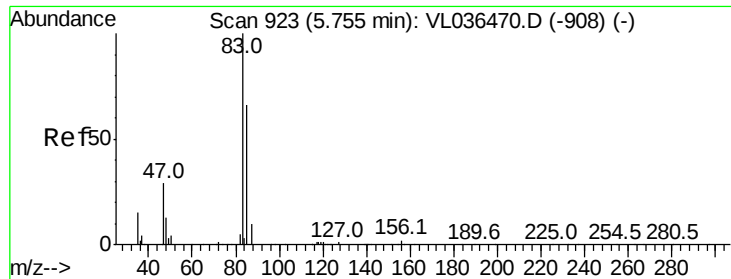
Tgt Ion: 73 Resp: 1992020

Ion Ratio Lower Upper

73 100

57 23.6 18.5 27.7





#29

Chloroform

Concen: 9.722 ppbv

RT: 5.77 min Scan# 927

Delta R.T. 0.01 min

Lab File: VL036787.D

Acq: 12 Apr 2021 12:32

Instrument :

MSVOA_L

ClientSampleId :

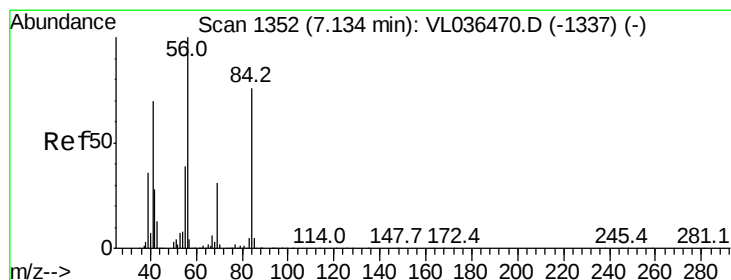
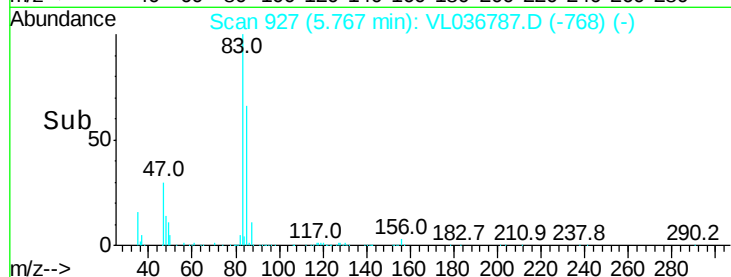
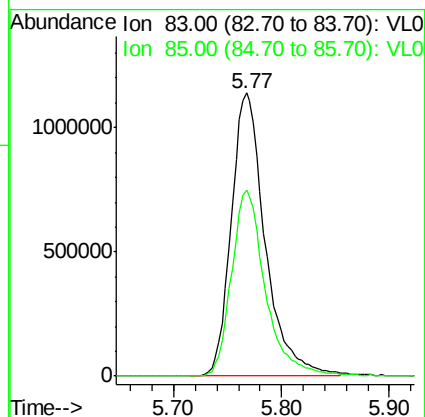
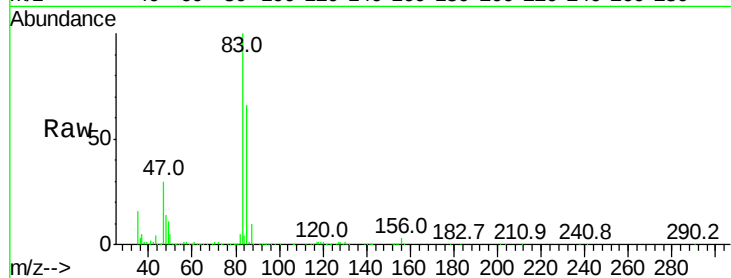
VL0412ABS01

Tgt Ion: 83 Resp: 2505116

Ion Ratio Lower Upper

83 100

85 65.3 52.6 78.8



#30

Cyclohexane

Concen: 10.580 ppbv

RT: 7.15 min Scan# 1356

Delta R.T. 0.01 min

Lab File: VL036787.D

Acq: 12 Apr 2021 12:32

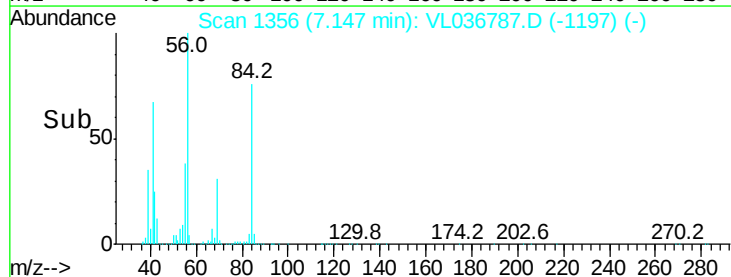
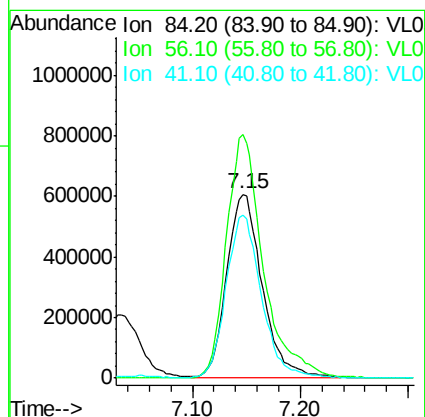
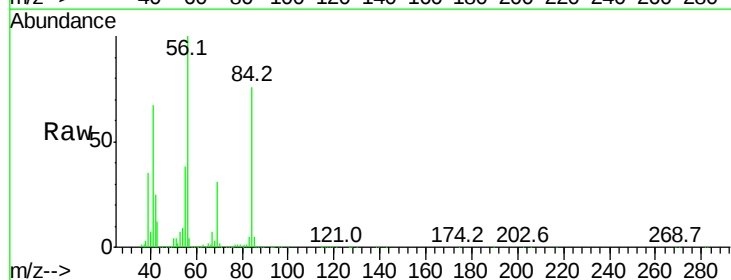
Tgt Ion: 84 Resp: 1382564

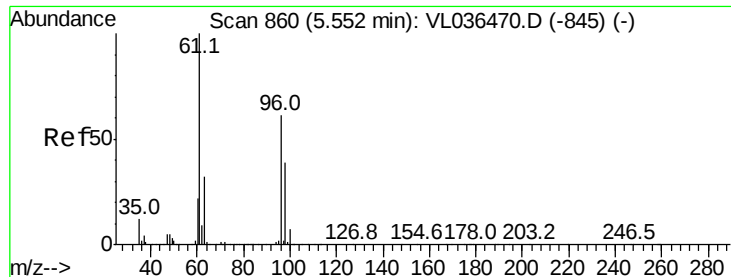
Ion Ratio Lower Upper

84 100

56 139.3 114.6 171.8

41 89.6 75.3 112.9



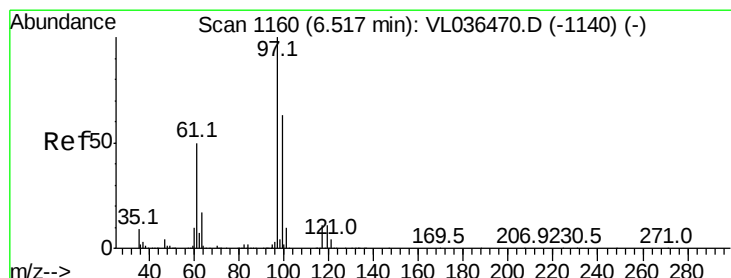
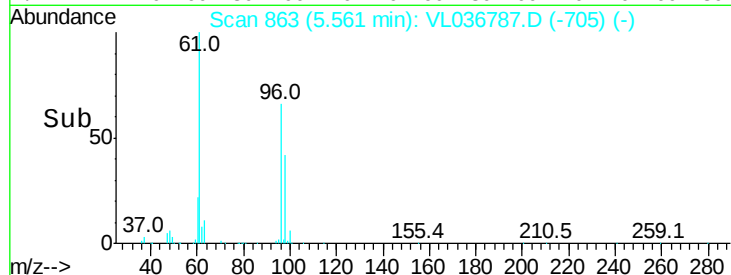
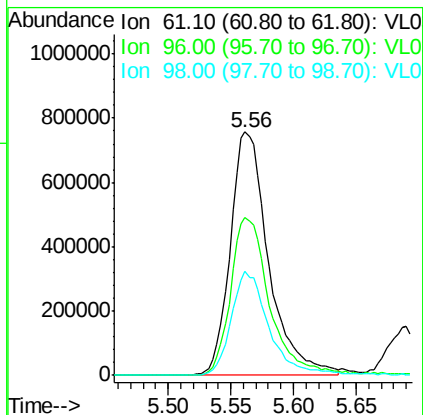
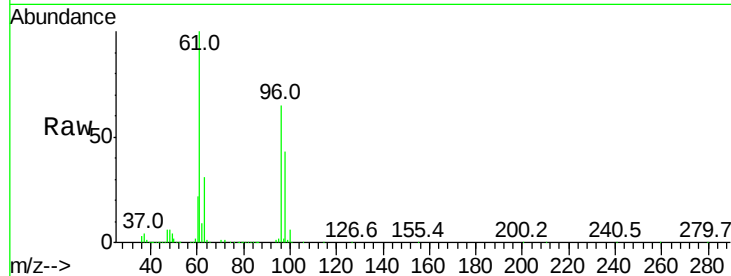


#31

cis-1,2-Dichloroethene
Concen: 10.286 ppbv
RT: 5.56 min Scan# 863
Delta R.T. 0.01 min
Lab File: VL036787.D
Acq: 12 Apr 2021 12:32

Instrument :
MSVOA_L
ClientSampleId :
VL0412ABS01

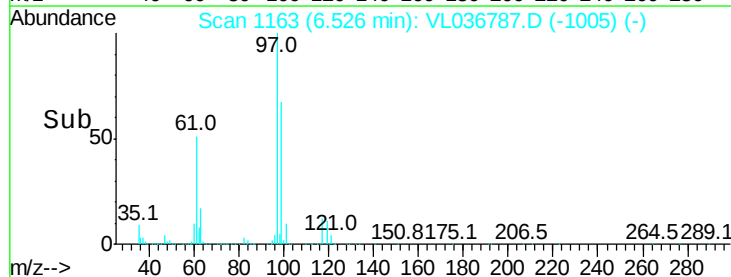
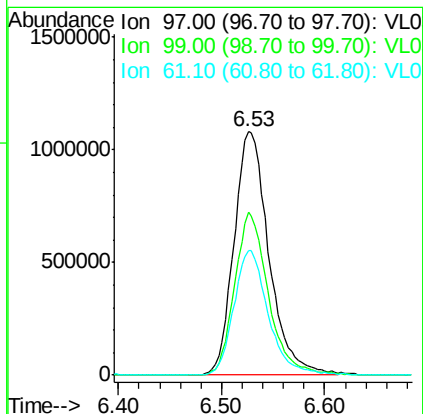
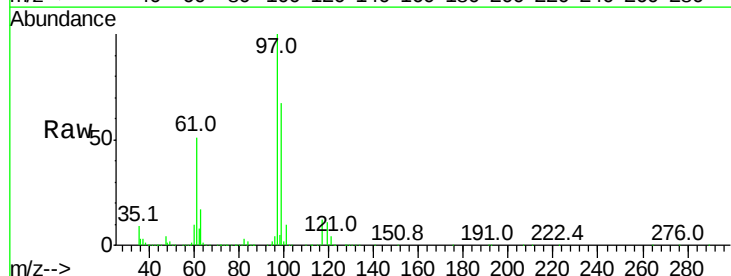
Tgt Ion: 61 Resp: 1602912
Ion Ratio Lower Upper
61 100
96 64.7 48.7 73.1
98 42.6 31.4 47.0

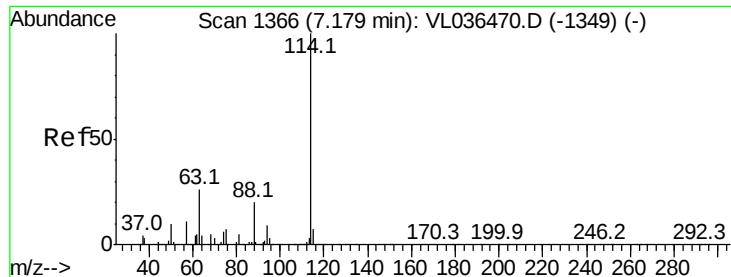


#32

1,1,1-Trichloroethane
Concen: 9.828 ppbv
RT: 6.53 min Scan# 1163
Delta R.T. 0.01 min
Lab File: VL036787.D
Acq: 12 Apr 2021 12:32

Tgt Ion: 97 Resp: 2552133
Ion Ratio Lower Upper
97 100
99 64.8 51.4 77.0
61 50.5 40.6 60.8

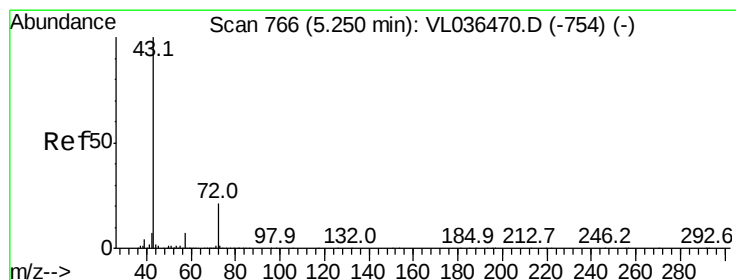
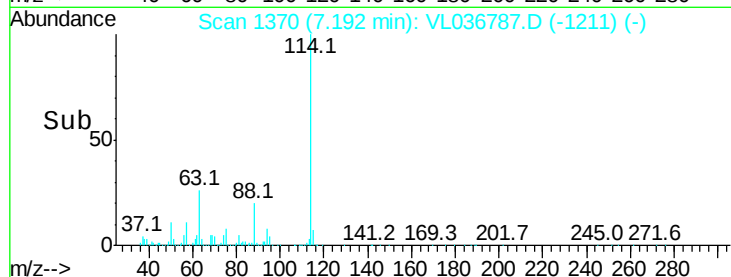
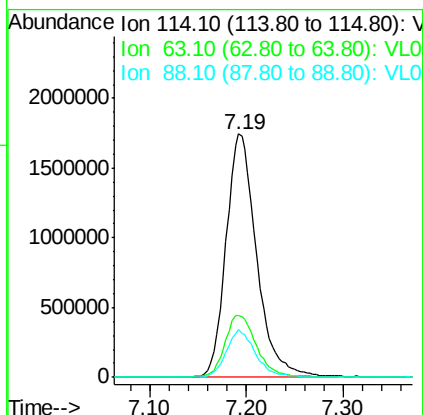
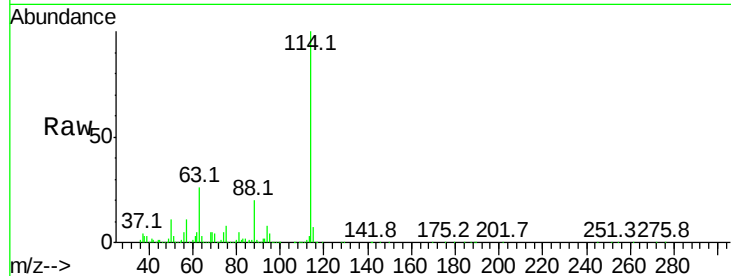




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1370
 Delta R.T. 0.01 min
 Lab File: VL036787.D
 Acq: 12 Apr 2021 12:32

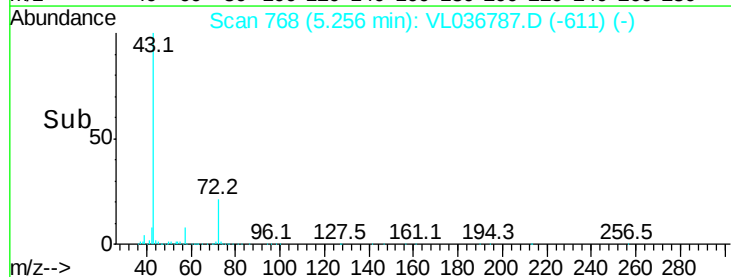
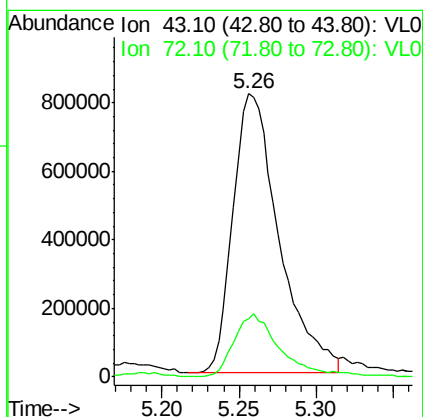
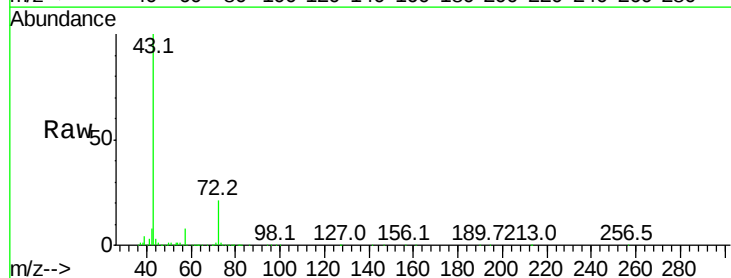
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0412ABS01

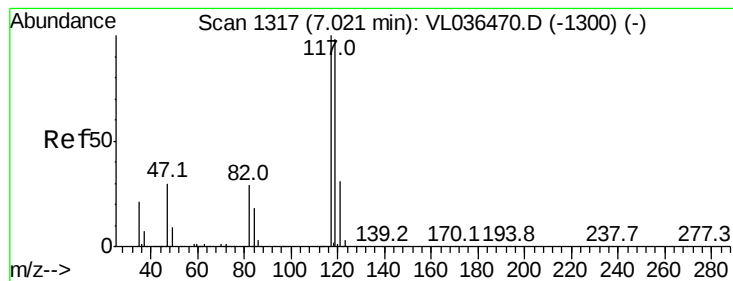
Tgt Ion:114 Resp: 3842543
 Ion Ratio Lower Upper
 114 100
 63 26.9 22.4 33.6
 88 18.8 15.4 23.0



#34
 2-Butanone
 Concen: 9.015 ppbv
 RT: 5.26 min Scan# 768
 Delta R.T. 0.01 min
 Lab File: VL036787.D
 Acq: 12 Apr 2021 12:32

Tgt Ion: 43 Resp: 1690847
 Ion Ratio Lower Upper
 43 100
 72 23.3 17.0 25.6





#35

Carbon Tetrachloride

Concen: 9.036 ppbv

RT: 7.03 min Scan# 1321

Delta R.T. 0.01 min

Lab File: VL036787.D

Acq: 12 Apr 2021 12:32

Instrument :

MSVOA_L

ClientSampleId :

VL0412ABS01

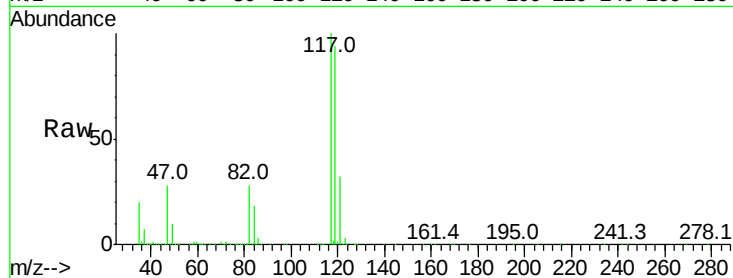
Tgt Ion: 117 Resp: 2666844

Ion Ratio Lower Upper

117 100

119 94.4 78.2 117.2

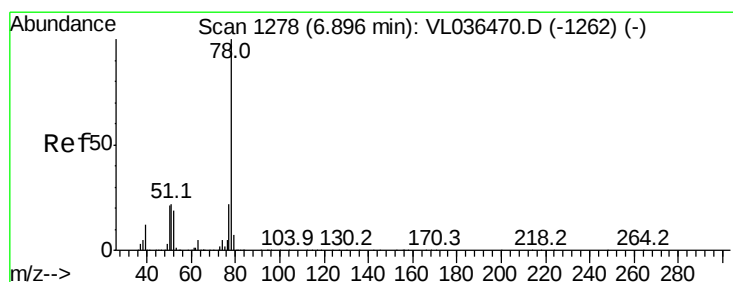
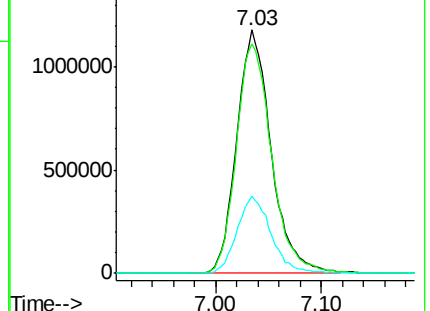
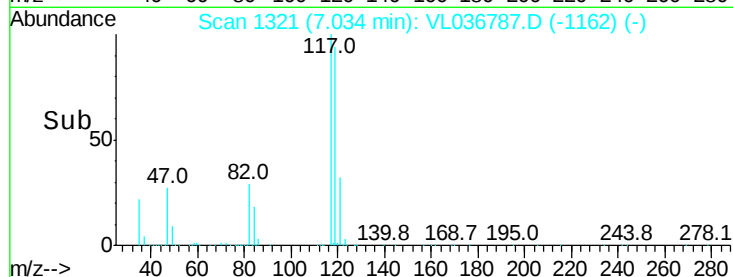
121 31.8 24.5 36.7



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 9.543 ppbv

RT: 6.91 min Scan# 1282

Delta R.T. 0.01 min

Lab File: VL036787.D

Acq: 12 Apr 2021 12:32

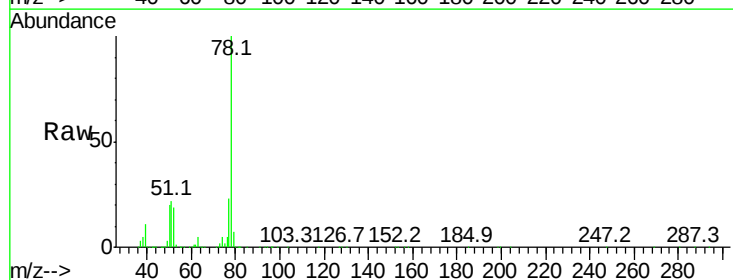
Tgt Ion: 78 Resp: 3382065

Ion Ratio Lower Upper

78 100

77 23.1 18.0 27.0

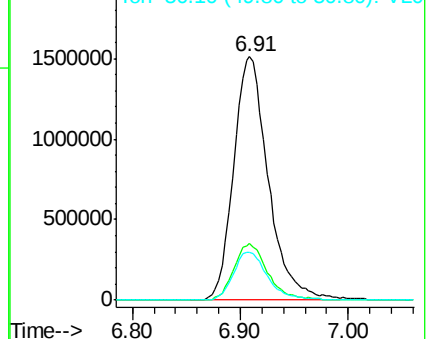
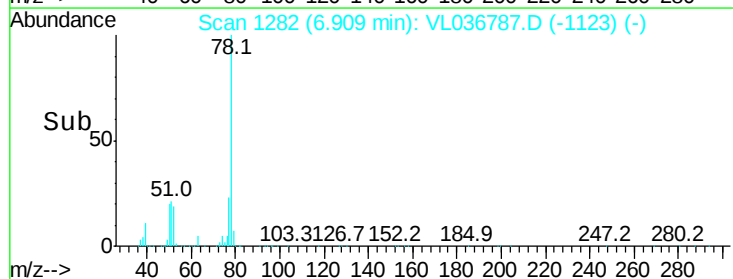
50 19.8 16.5 24.7

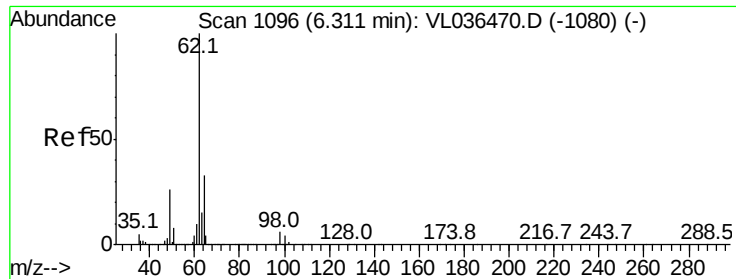


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

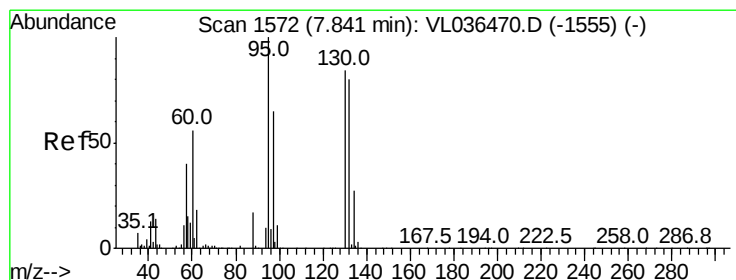
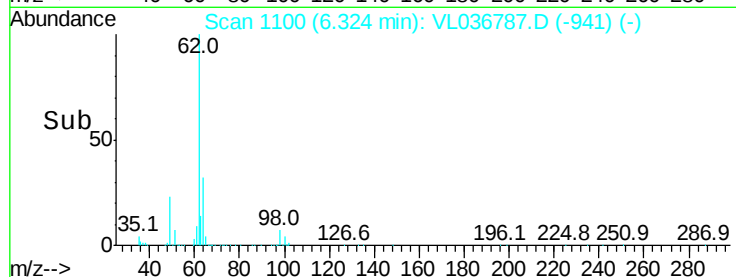
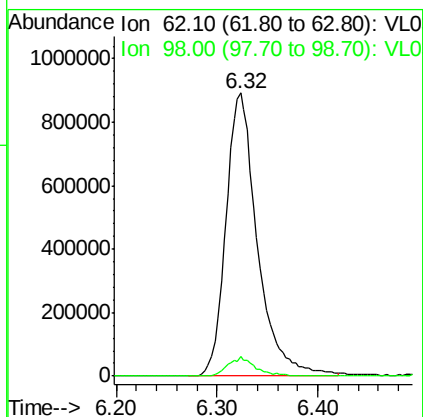
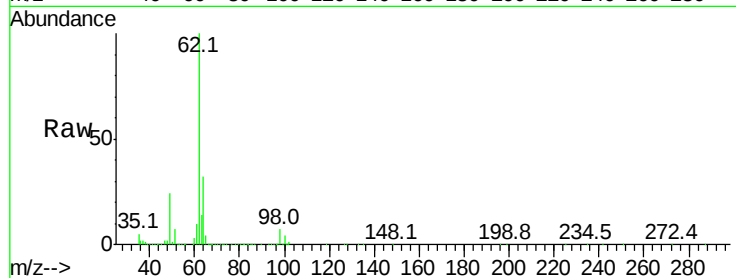




#37
 1,2-Dichloroethane
 Concen: 9.277 ppbv
 RT: 6.32 min Scan# 1100
 Delta R.T. 0.01 min
 Lab File: VL036787.D
 Acq: 12 Apr 2021 12:32

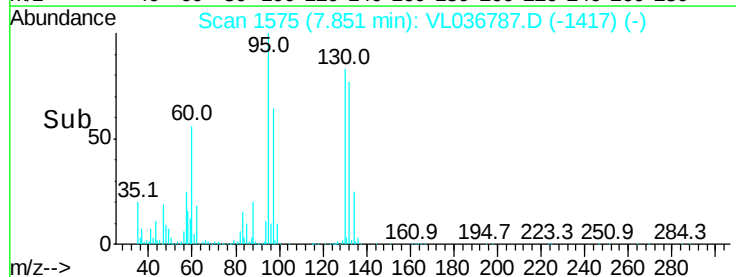
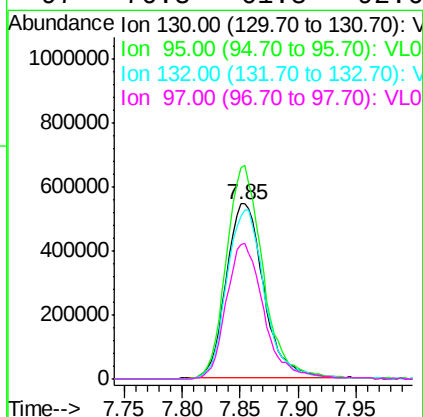
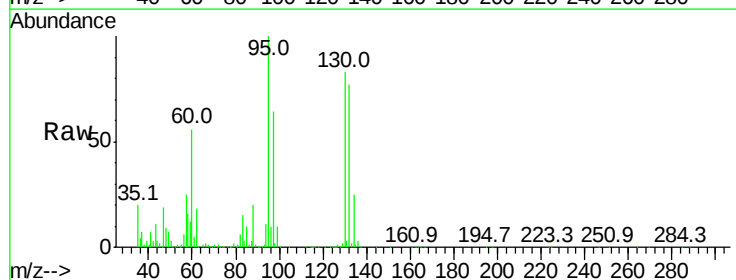
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0412ABS01

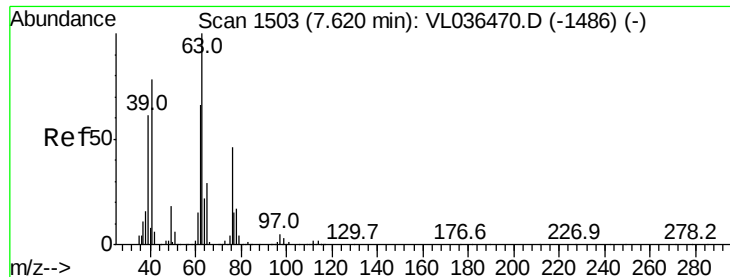
Tgt Ion: 62 Resp: 1934987
 Ion Ratio Lower Upper
 62 100
 98 6.2 4.9 7.3



#38
 Trichloroethene
 Concen: 8.797 ppbv
 RT: 7.85 min Scan# 1575
 Delta R.T. 0.01 min
 Lab File: VL036787.D
 Acq: 12 Apr 2021 12:32

Tgt Ion: 130 Resp: 1213265
 Ion Ratio Lower Upper
 130 100
 95 121.0 95.7 143.5
 132 93.2 76.2 114.4
 97 76.8 61.8 92.6





#39

1,2-Dichloropropane

Concen: 9.089 ppbv

RT: 7.63 min Scan# 1507

Delta R.T. 0.01 min

Lab File: VL036787.D

Acq: 12 Apr 2021 12:32

Instrument :

MSVOA_L

ClientSampleId :

VL0412ABS01

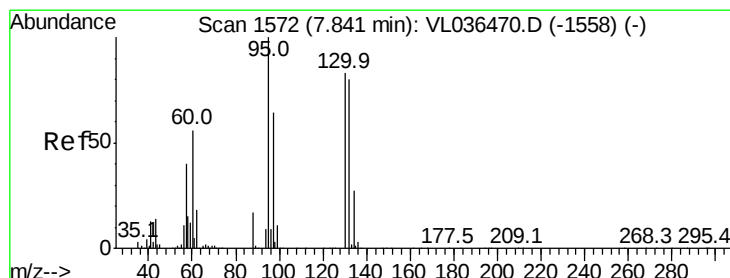
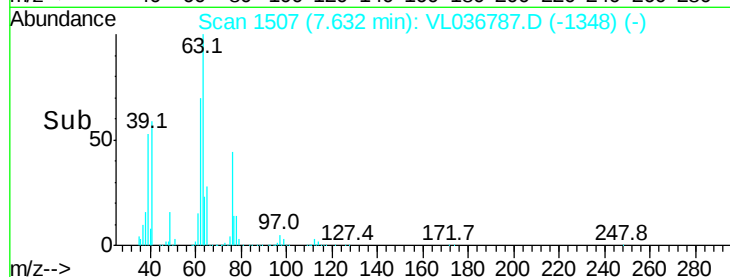
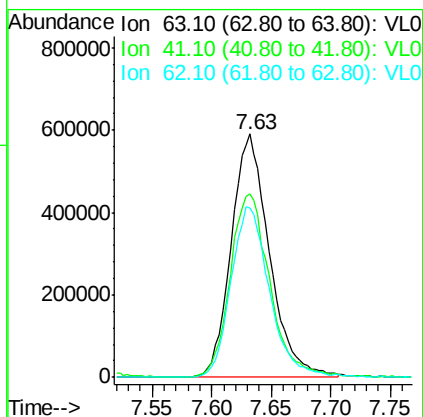
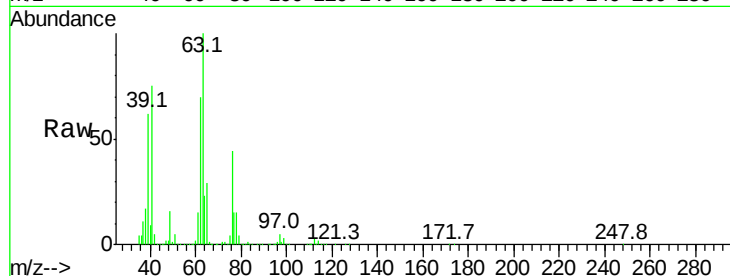
Tgt Ion: 63 Resp: 1306665

Ion Ratio Lower Upper

63 100

41 75.3 62.4 93.6

62 69.6 52.8 79.2



#40

1,4-Dioxane

Concen: 4.970 ppbv

RT: 7.86 min Scan# 1577

Delta R.T. 0.02 min

Lab File: VL036787.D

Acq: 12 Apr 2021 12:32

Tgt Ion: 88 Resp: 166272

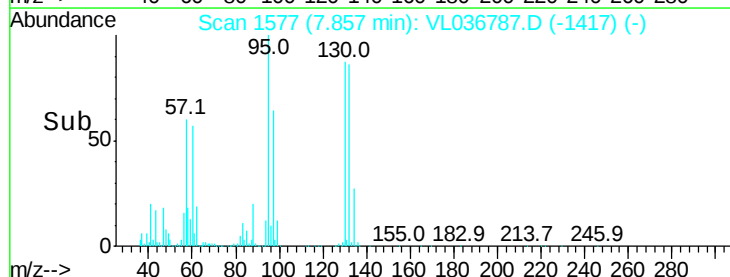
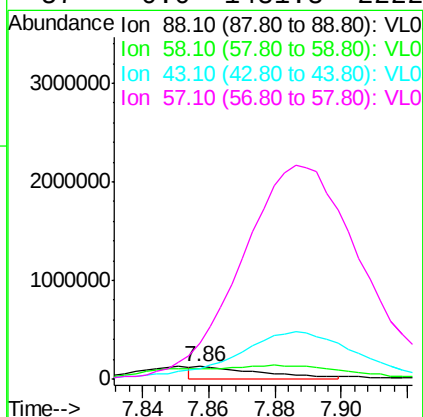
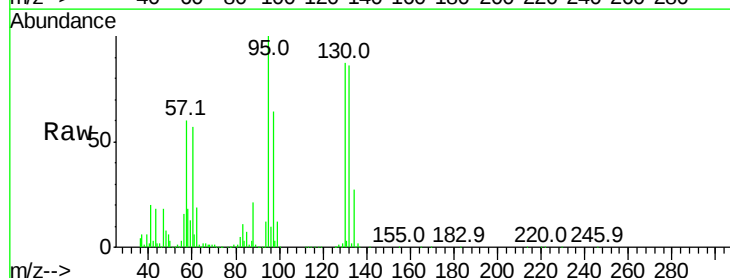
Ion Ratio Lower Upper

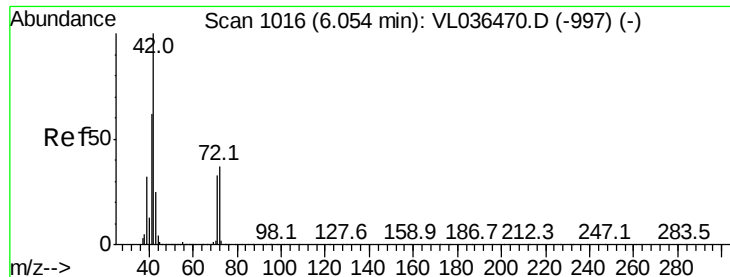
88 100

58 0.0 134.1 201.1#

43 0.0 346.6 520.0#

57 0.0 1481.8 2222.8#





#41

Tetrahydrofuran

Concen: 9.561 ppbv

RT: 6.06 min Scan# 1019

Delta R.T. 0.01 min

Lab File: VL036787.D

Acq: 12 Apr 2021 12:32

Instrument :

MSVOA_L

ClientSampleId :

VL0412ABS01

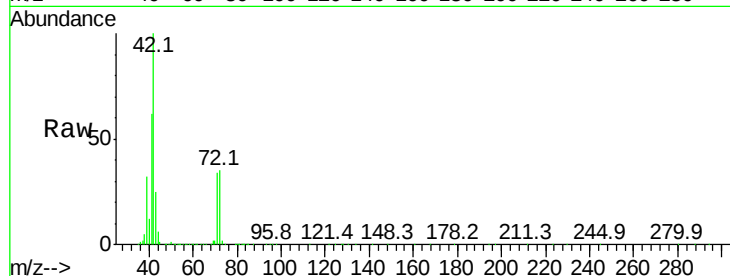
Tgt Ion: 42 Resp: 826883

Ion Ratio Lower Upper

42 100

72 37.4 27.6 41.4

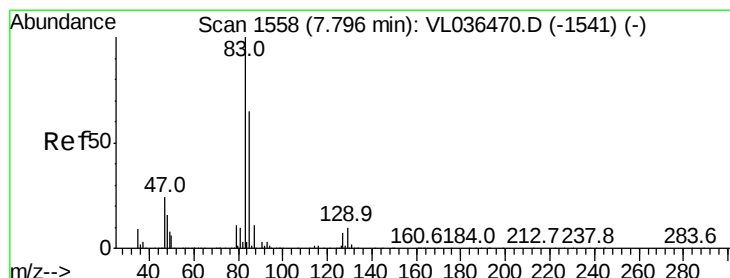
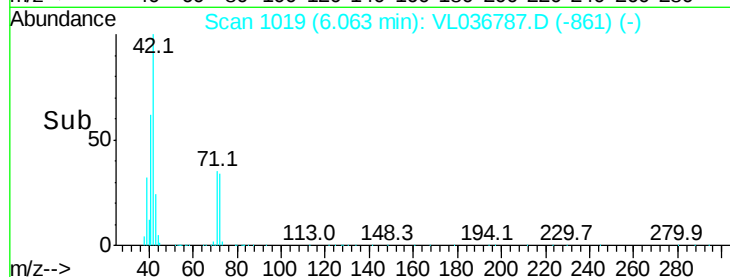
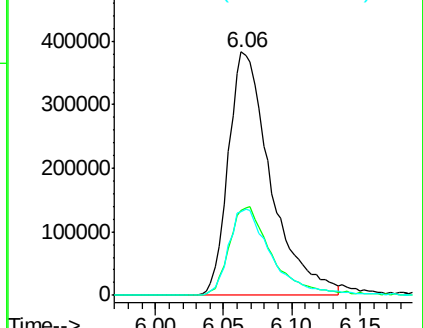
71 36.7 27.0 40.4



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: 9.562 ppbv

RT: 7.81 min Scan# 1562

Delta R.T. 0.01 min

Lab File: VL036787.D

Acq: 12 Apr 2021 12:32

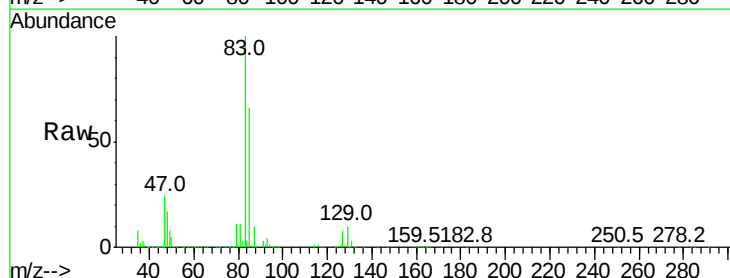
Tgt Ion: 83 Resp: 2712756

Ion Ratio Lower Upper

83 100

85 65.6 51.8 77.6

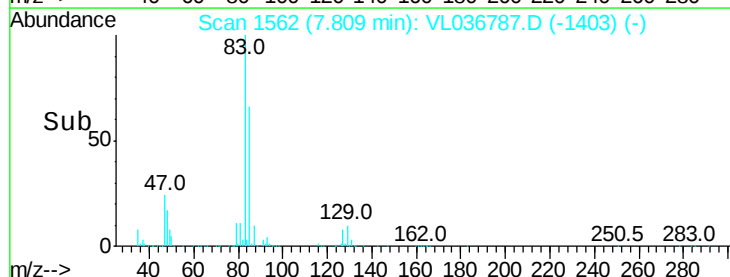
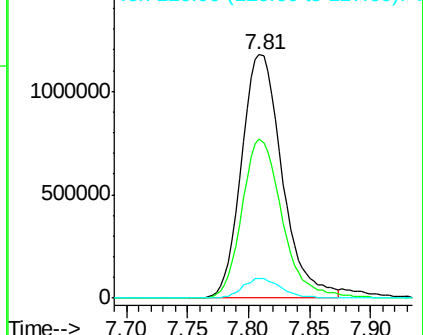
127 7.9 5.8 8.8

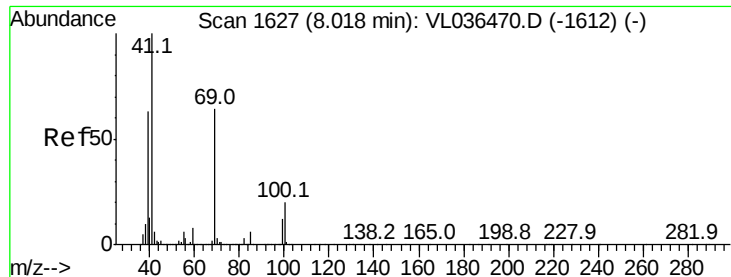


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V

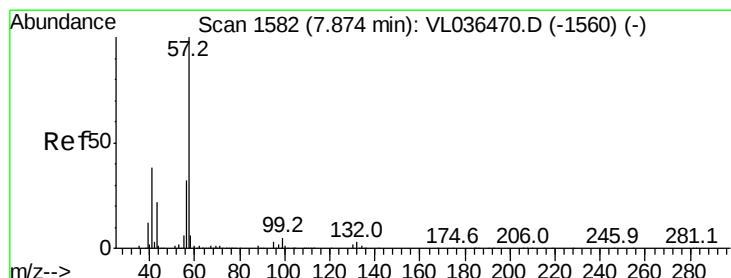
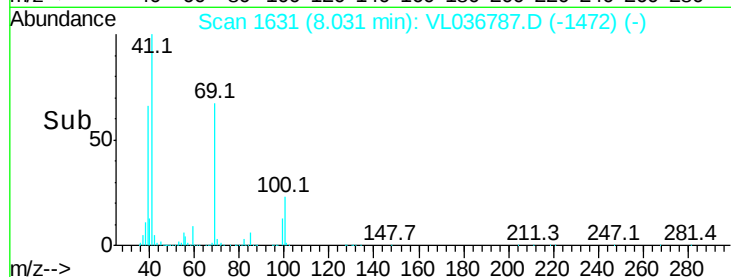
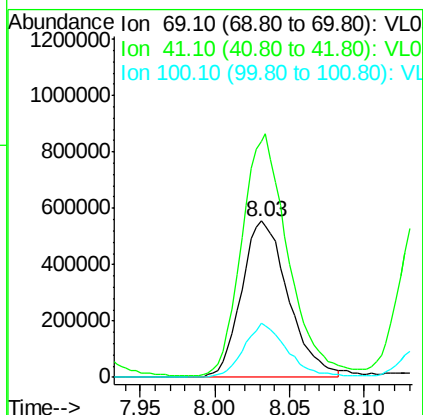
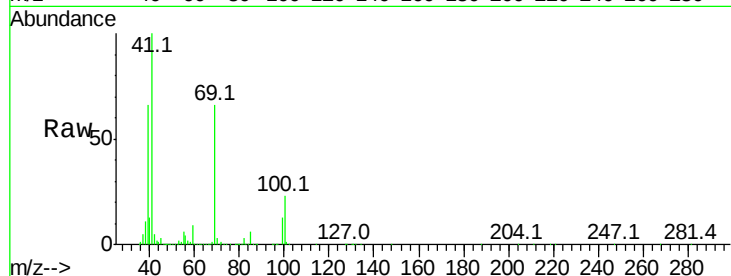




#43
Methyl Methacrylate
Concen: 10.125 ppbv
RT: 8.03 min Scan# 1631
Delta R.T. 0.01 min
Lab File: VL036787.D
Acq: 12 Apr 2021 12:32

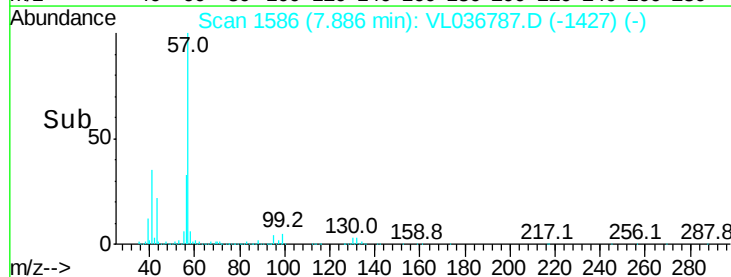
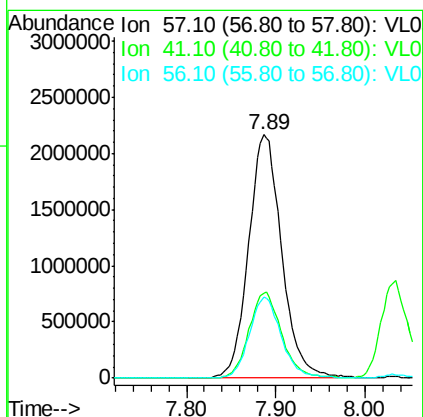
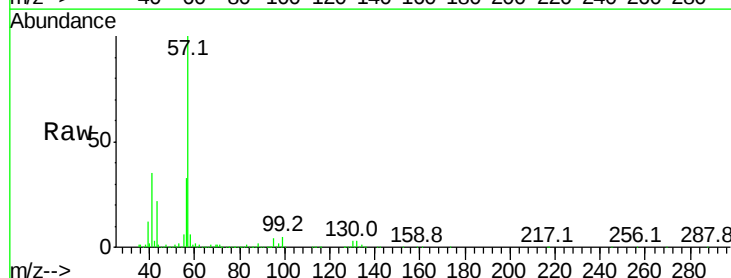
Instrument :
MSVOA_L
ClientSampleId :
VL0412ABS01

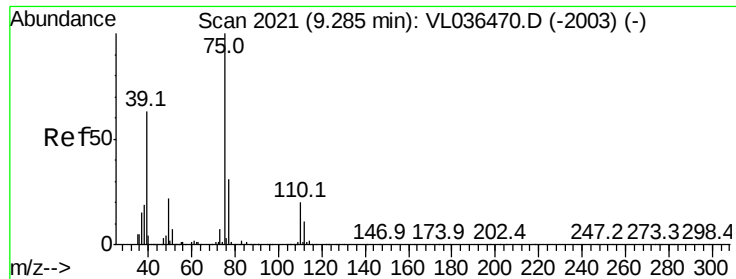
Tgt Ion: 69 Resp: 1204945
Ion Ratio Lower Upper
69 100
41 155.3 126.8 190.2
100 32.6 24.9 37.3



#44
2,2,4-Trimethylpentane
Concen: 8.984 ppbv
RT: 7.89 min Scan# 1586
Delta R.T. 0.01 min
Lab File: VL036787.D
Acq: 12 Apr 2021 12:32

Tgt Ion: 57 Resp: 5603600
Ion Ratio Lower Upper
57 100
41 34.7 28.8 43.2
56 32.1 26.1 39.1

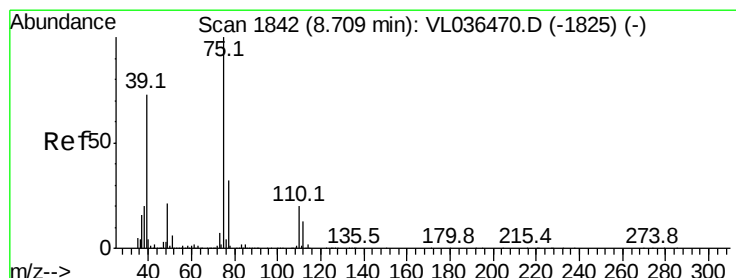
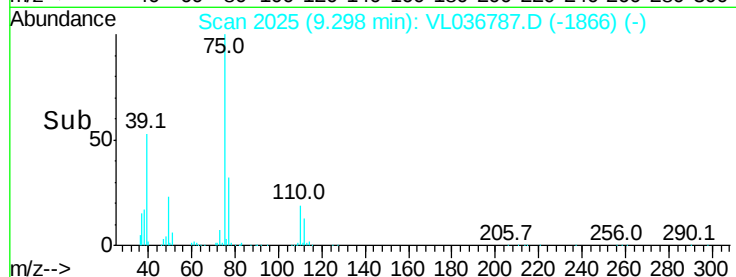
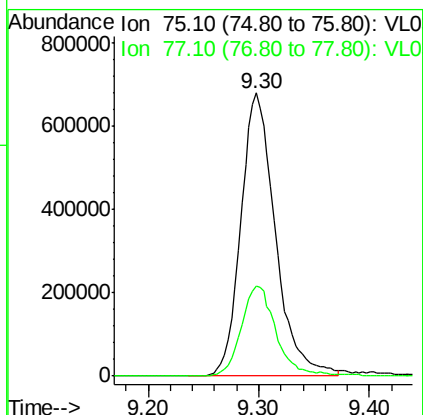
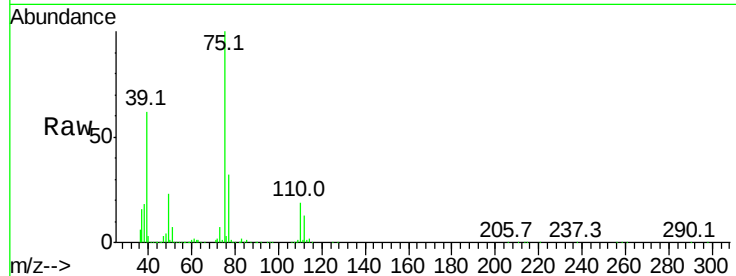




#45
 t-1,3-Dichloropropene
 Concen: 10.812 ppbv
 RT: 9.30 min Scan# 2025
 Delta R.T. 0.01 min
 Lab File: VL036787.D
 Acq: 12 Apr 2021 12:32

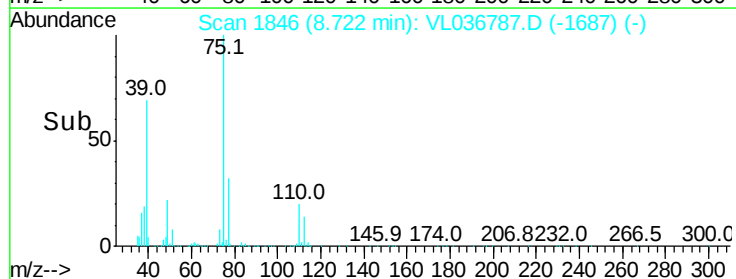
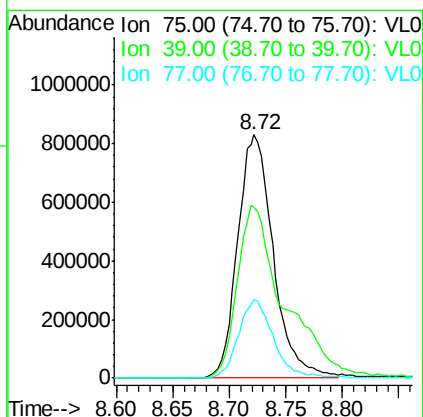
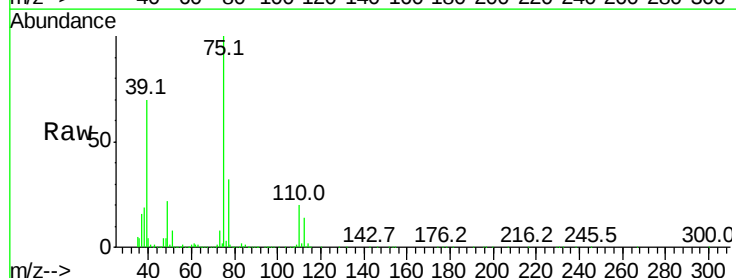
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0412ABS01

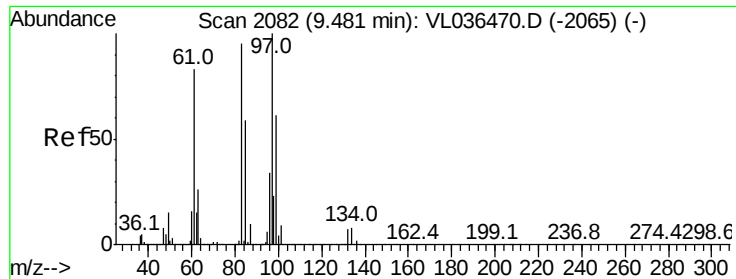
Tgt Ion: 75 Resp: 1469225
 Ion Ratio Lower Upper
 75 100
 77 31.9 25.1 37.7



#46
 cis-1,3-Dichloropropene
 Concen: 10.479 ppbv
 RT: 8.72 min Scan# 1846
 Delta R.T. 0.01 min
 Lab File: VL036787.D
 Acq: 12 Apr 2021 12:32

Tgt Ion: 75 Resp: 1820166
 Ion Ratio Lower Upper
 75 100
 39 69.9 58.2 87.2
 77 32.1 25.2 37.8

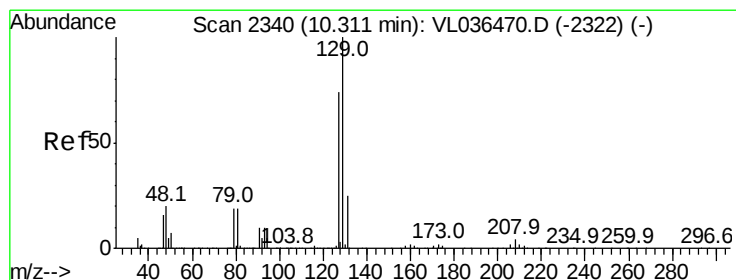
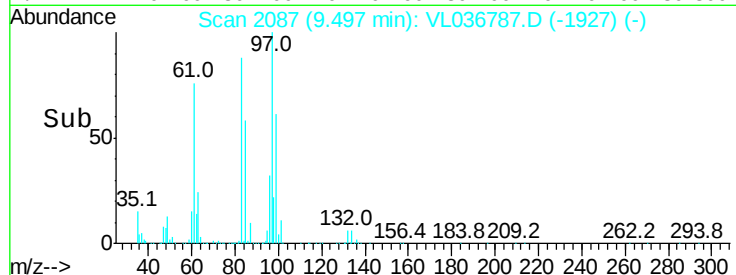
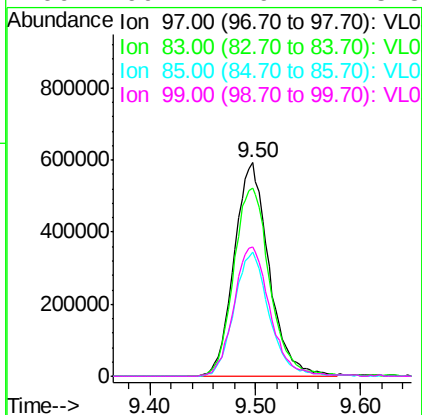
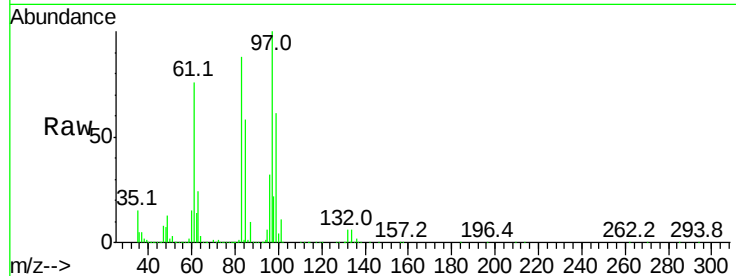




#47
 1,1,2-Trichloroethane
 Concen: 9.338 ppbv
 RT: 9.50 min Scan# 2087
 Delta R.T. 0.02 min
 Lab File: VL036787.D
 Acq: 12 Apr 2021 12:32

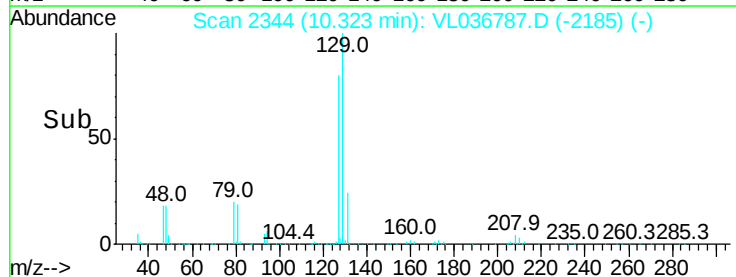
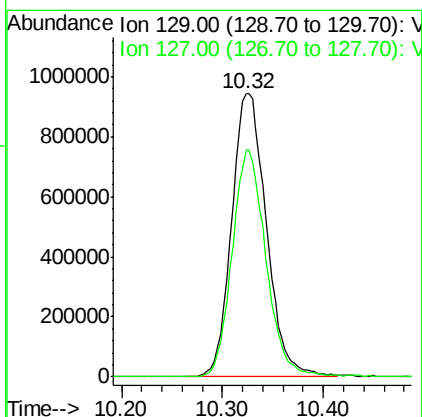
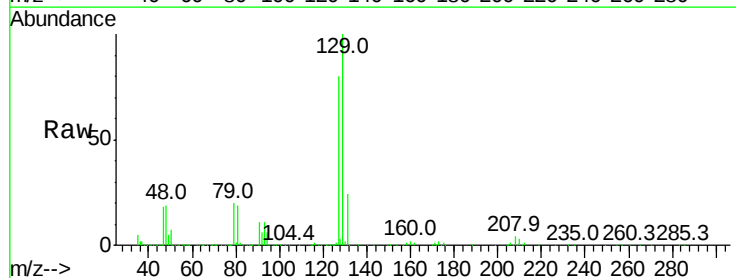
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0412ABS01

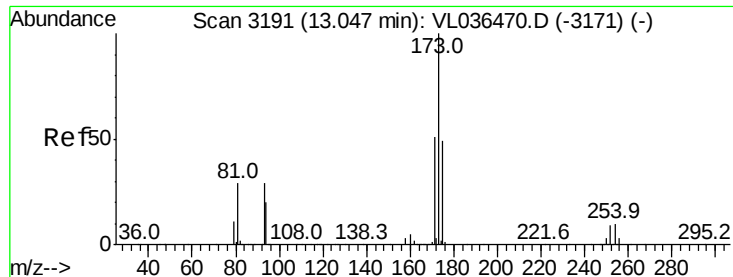
Tgt Ion: 97 Resp: 1359623
 Ion Ratio Lower Upper
 97 100
 83 88.1 75.8 113.8
 85 58.1 47.1 70.7
 99 60.7 49.2 73.8



#48
 Dibromochloromethane
 Concen: 10.181 ppbv
 RT: 10.32 min Scan# 2344
 Delta R.T. 0.01 min
 Lab File: VL036787.D
 Acq: 12 Apr 2021 12:32

Tgt Ion: 129 Resp: 2259785
 Ion Ratio Lower Upper
 129 100
 127 77.9 39.6 118.8





#49

Bromoform

Concen: 10.040 ppbv

RT: 13.06 min Scan# 3196

Delta R.T. 0.02 min

Lab File: VL036787.D

Acq: 12 Apr 2021 12:32

Instrument :

MSVOA_L

ClientSampleId :

VL0412ABS01

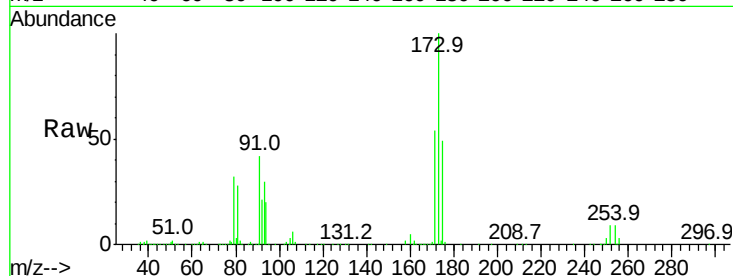
Tgt Ion:173 Resp: 1795544

Ion Ratio Lower Upper

173 100

175 50.9 39.6 59.4

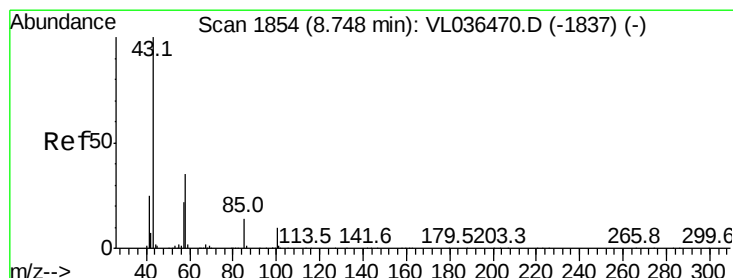
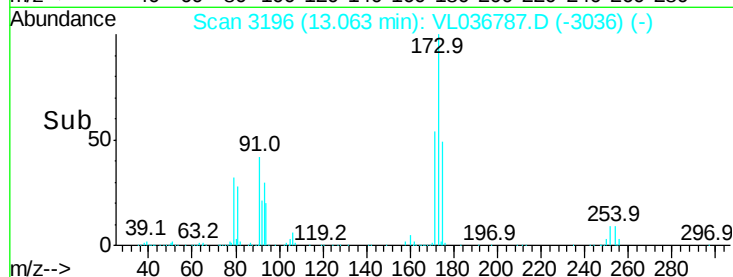
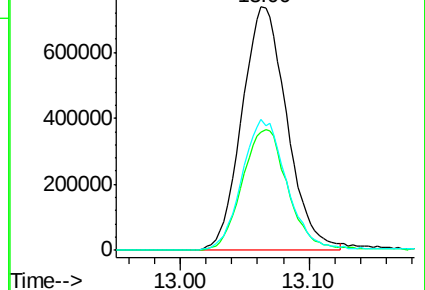
171 54.4 41.4 62.0



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 9.530 ppbv

RT: 8.76 min Scan# 1858

Delta R.T. 0.01 min

Lab File: VL036787.D

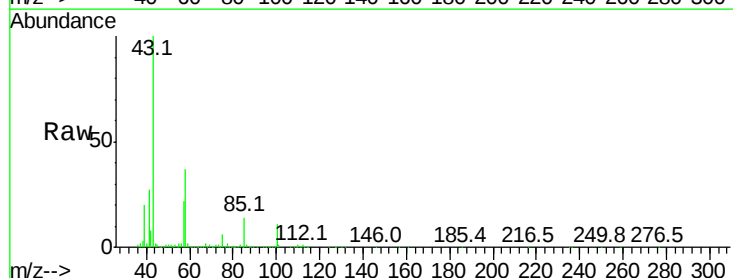
Acq: 12 Apr 2021 12:32

Tgt Ion: 43 Resp: 2586338

Ion Ratio Lower Upper

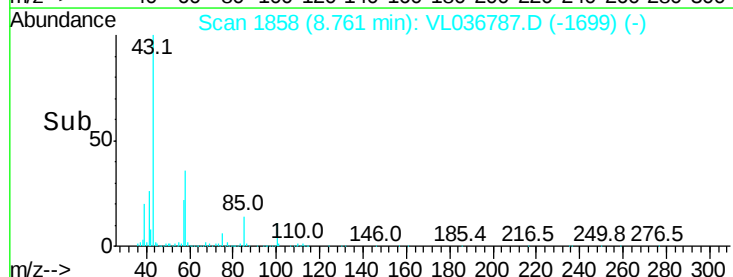
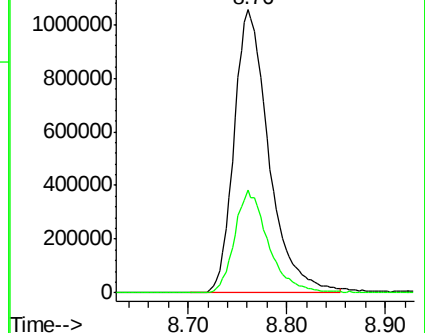
43 100

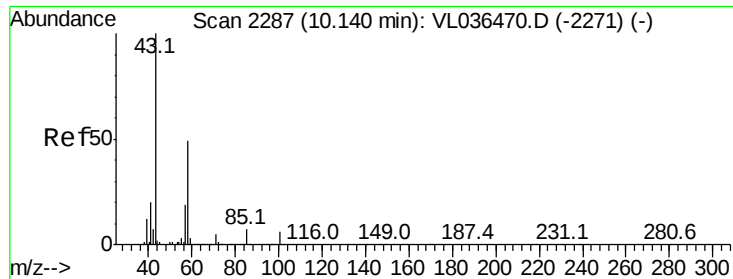
58 35.6 28.2 42.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

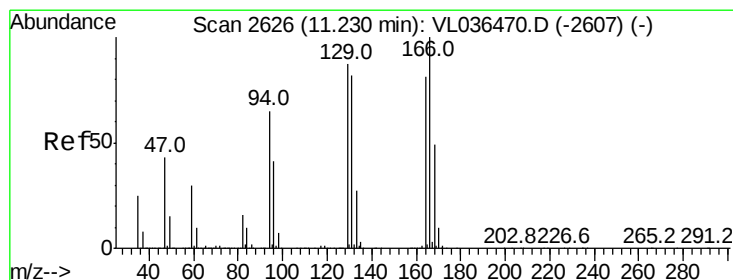
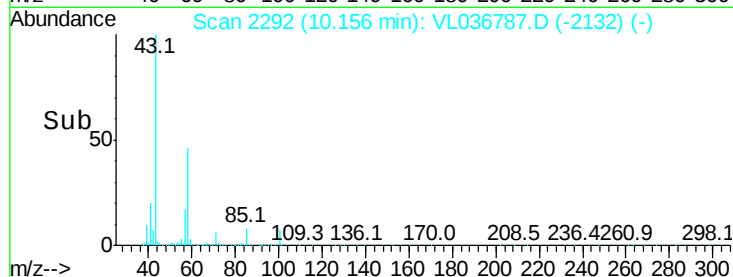
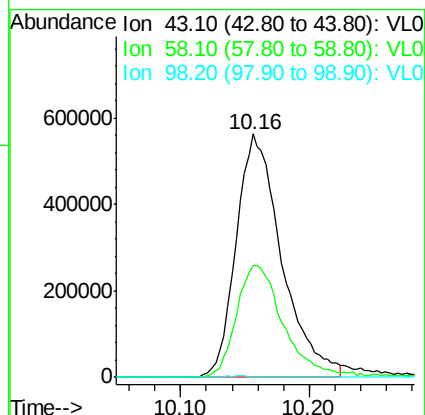
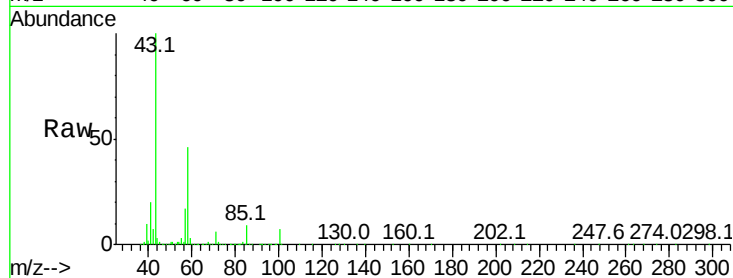




#51
2-Hexanone
Concen: 10.057 ppbv
RT: 10.16 min Scan# 2292
Delta R.T. 0.02 min
Lab File: VL036787.D
Acq: 12 Apr 2021 12:32

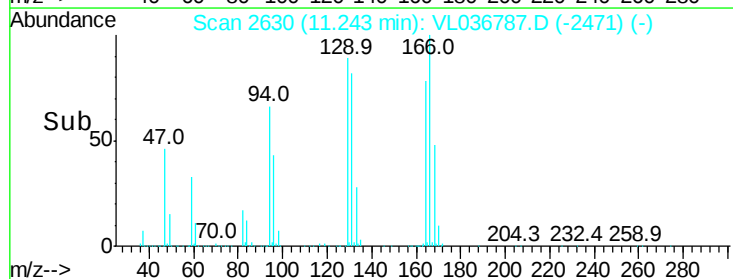
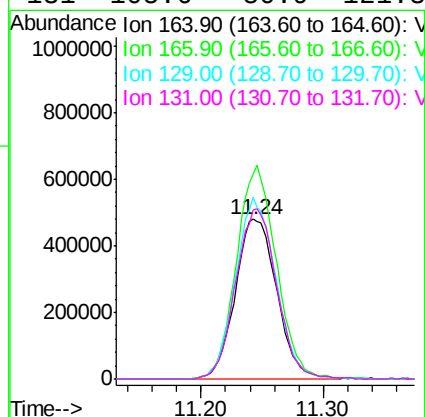
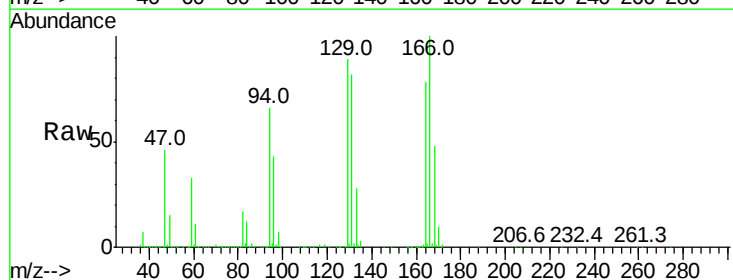
Instrument :
MSVOA_L
ClientSampleId :
VL0412ABS01

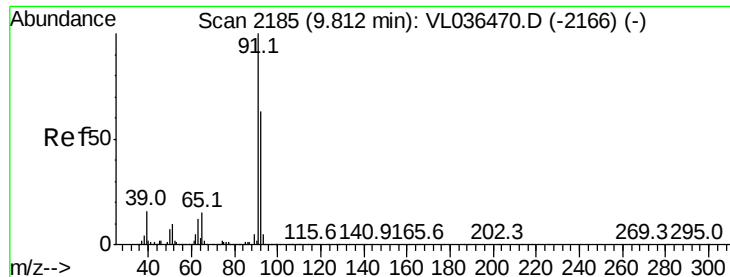
Tgt Ion: 43 Resp: 1377458
Ion Ratio Lower Upper
43 100
58 49.1 37.7 56.5
98 0.7 0.2 0.2#



#52
Tetrachloroethene
Concen: 8.626 ppbv
RT: 11.24 min Scan# 2630
Delta R.T. 0.01 min
Lab File: VL036787.D
Acq: 12 Apr 2021 12:32

Tgt Ion: 164 Resp: 1125610
Ion Ratio Lower Upper
164 100
166 128.6 98.3 147.5
129 114.1 85.8 128.8
131 105.6 80.9 121.3





#53

Toluene

Concen: 9.920 ppbv

RT: 9.82 min Scan# 2189

Delta R.T. 0.01 min

Lab File: VL036787.D

Acq: 12 Apr 2021 12:32

Instrument :

MSVOA_L

ClientSampleId :

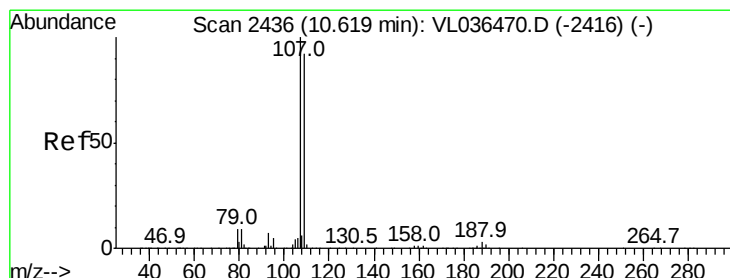
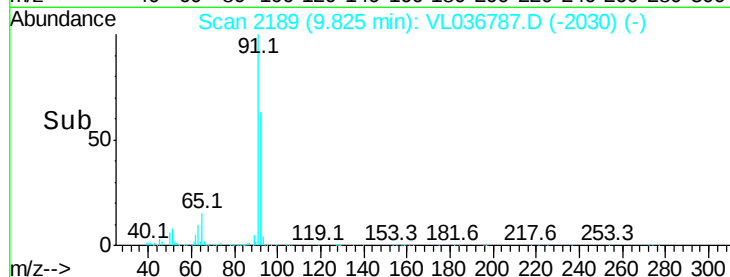
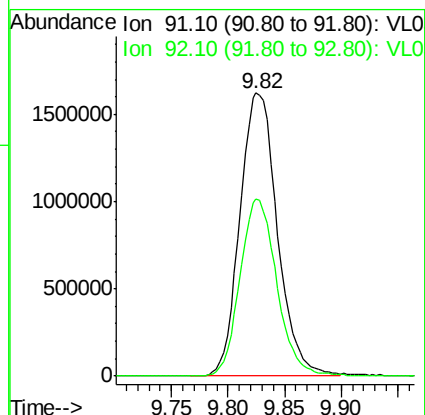
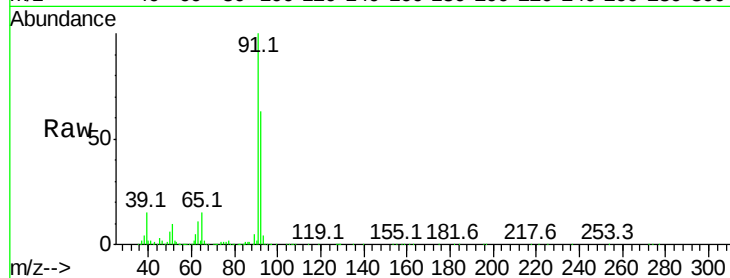
VL0412ABS01

Tgt Ion: 91 Resp: 3743642

Ion Ratio Lower Upper

91 100

92 61.5 48.8 73.2



#54

1,2-Dibromoethane

Concen: 9.527 ppbv

RT: 10.63 min Scan# 2440

Delta R.T. 0.01 min

Lab File: VL036787.D

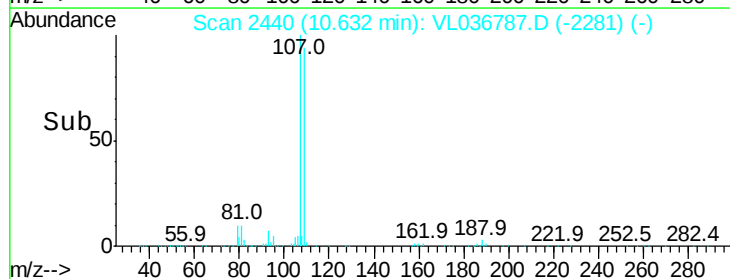
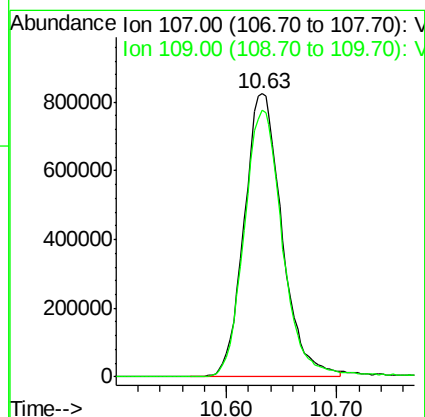
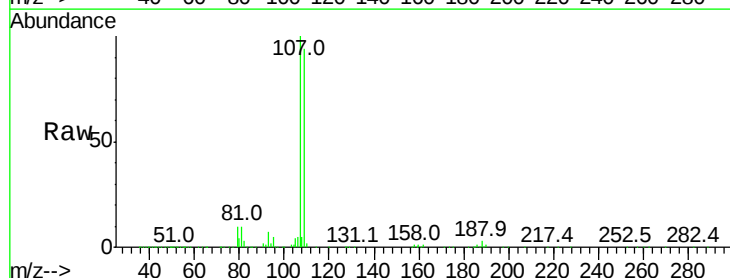
Acq: 12 Apr 2021 12:32

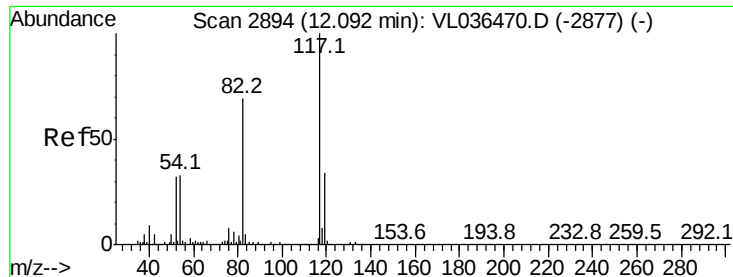
Tgt Ion: 107 Resp: 1959090

Ion Ratio Lower Upper

107 100

109 94.4 73.9 110.9





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2900

Delta R.T. 0.02 min

Lab File: VL036787.D

Acq: 12 Apr 2021 12:32

Instrument :

MSVOA_L

ClientSampleId :

VL0412ABS01

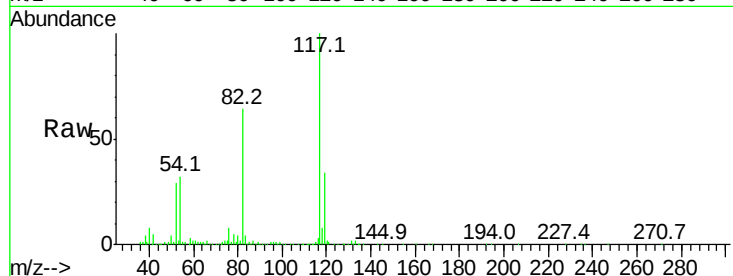
Tgt Ion:117 Resp: 4047801

Ion Ratio Lower Upper

117 100

82 53.7 57.4 86.0#

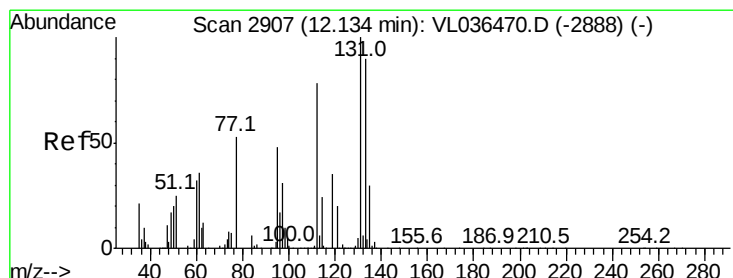
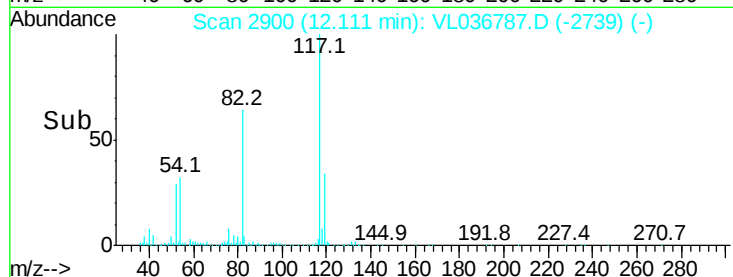
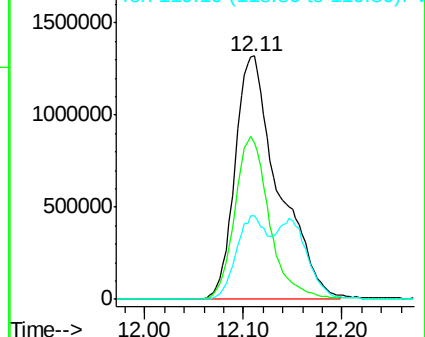
119 22.3 47.4 71.0#



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 8.155 ppbv

RT: 12.15 min Scan# 2912

Delta R.T. 0.02 min

Lab File: VL036787.D

Acq: 12 Apr 2021 12:32

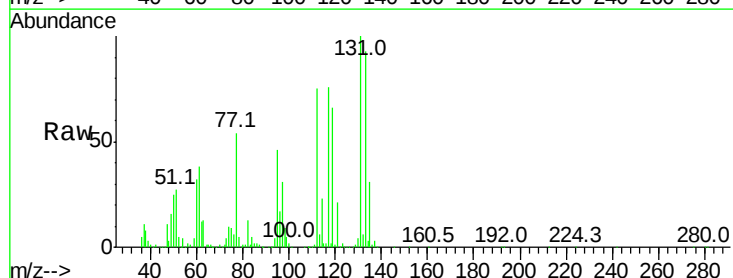
Tgt Ion:131 Resp: 1492966

Ion Ratio Lower Upper

131 100

133 96.5 75.8 113.6

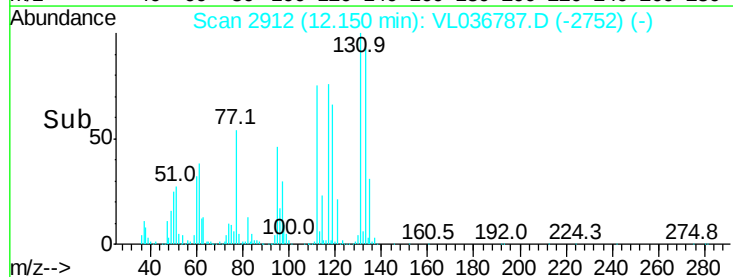
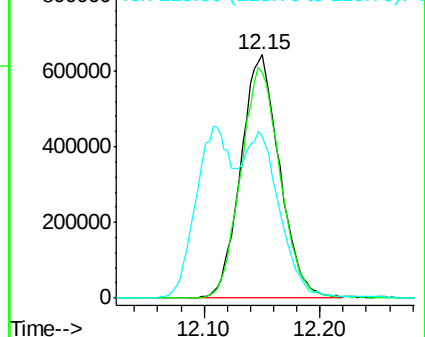
119 71.0 48.7 73.1

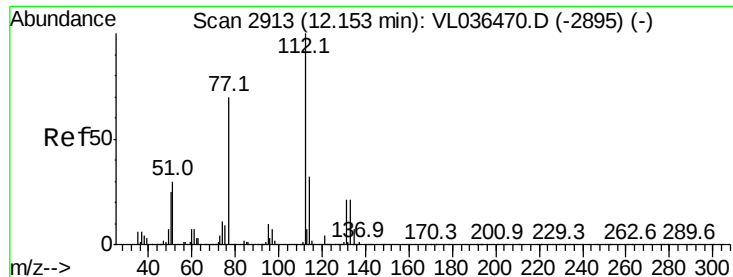


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 7.968 ppbv

RT: 12.17 min Scan# 2918

Delta R.T. 0.02 min

Lab File: VL036787.D

Acq: 12 Apr 2021 12:32

Instrument :

MSVOA_L

ClientSampleId :

VL0412ABS01

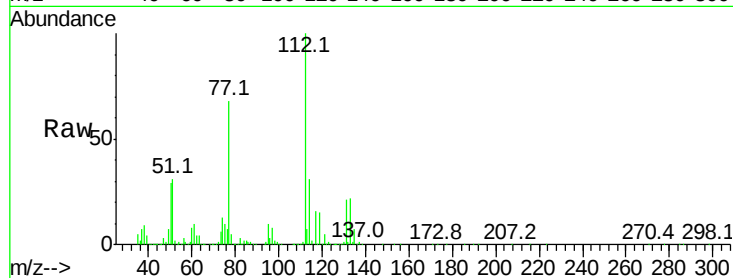
Tgt Ion: 112 Resp: 2744220

Ion Ratio Lower Upper

112 100

77 67.1 56.0 84.0

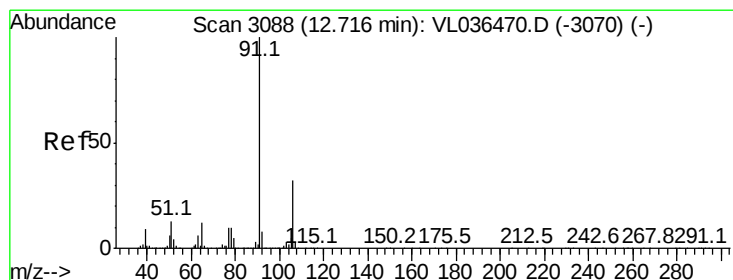
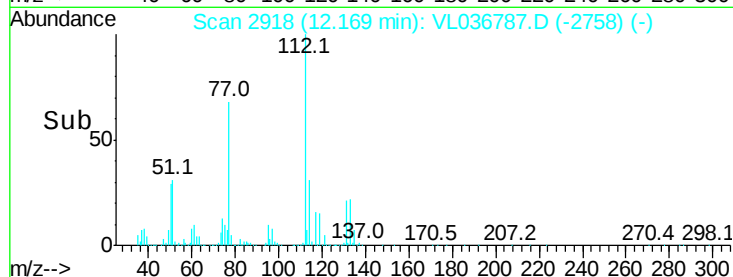
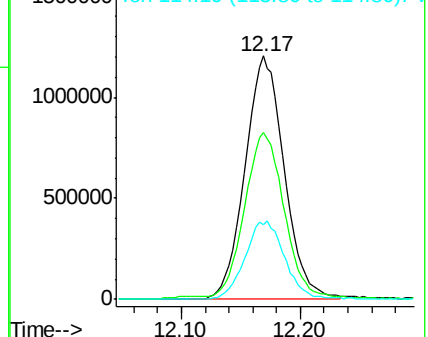
114 30.9 29.0 35.4



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 8.451 ppbv

RT: 12.73 min Scan# 3094

Delta R.T. 0.02 min

Lab File: VL036787.D

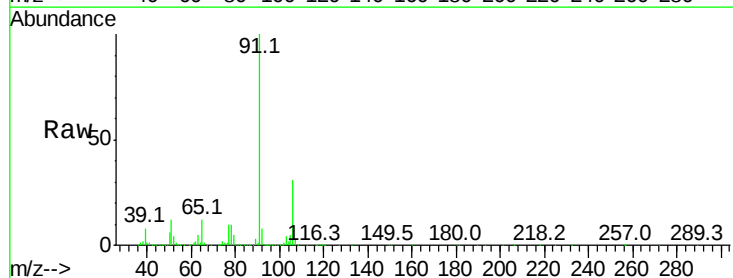
Acq: 12 Apr 2021 12:32

Tgt Ion: 91 Resp: 4976961

Ion Ratio Lower Upper

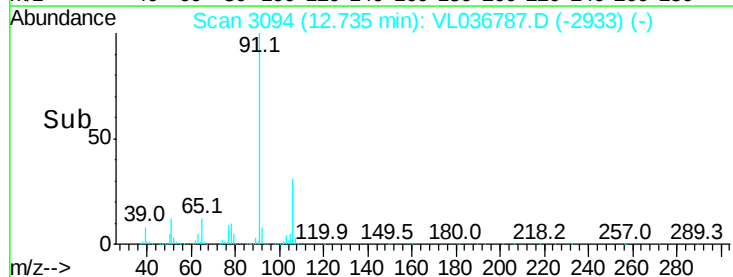
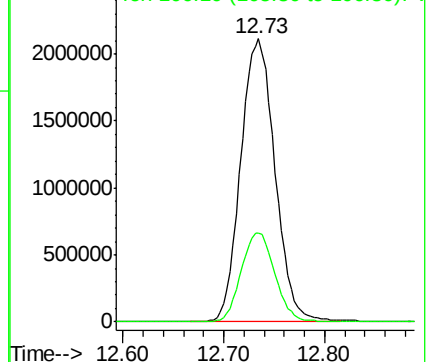
91 100

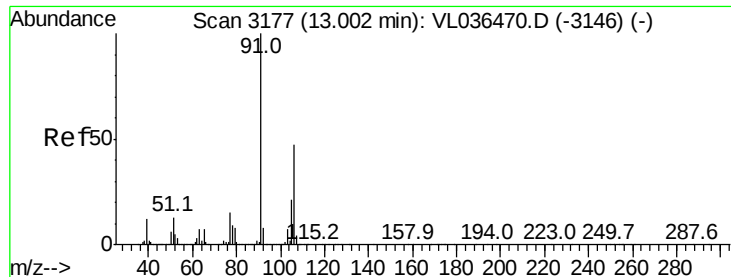
106 31.3 25.3 37.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

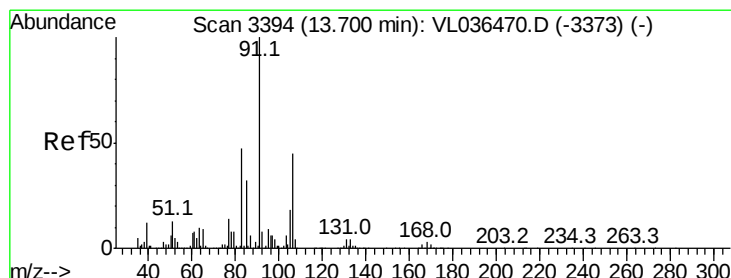
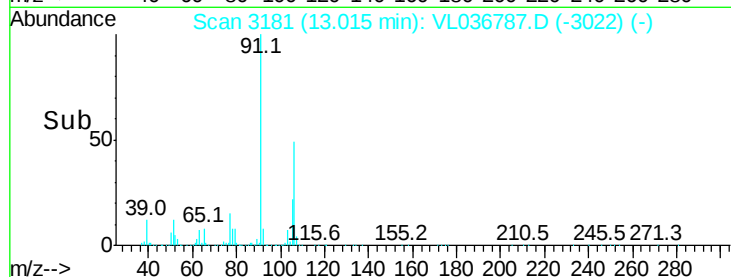
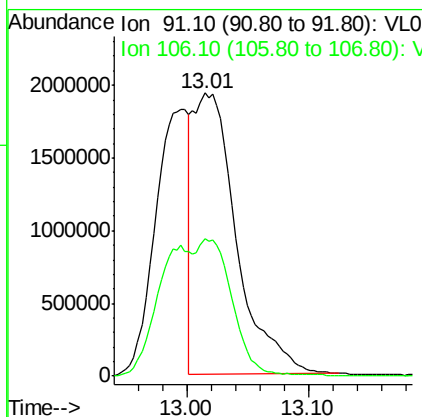
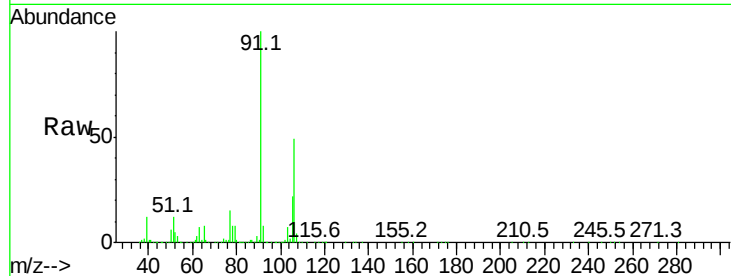




#59
m/p-Xylene
Concen: 9.301 ppbv
RT: 13.01 min Scan# 3181
Delta R.T. 0.01 min
Lab File: VL036787.D
Acq: 12 Apr 2021 12:32

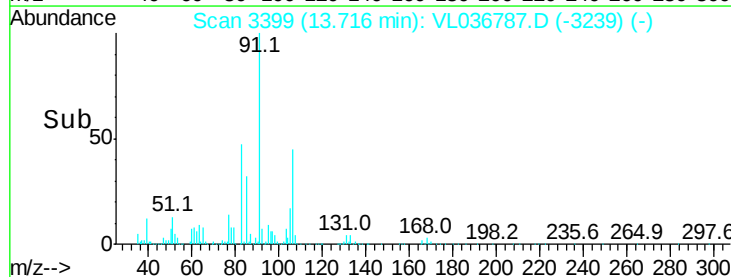
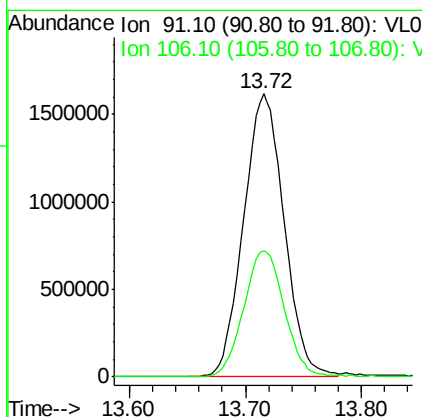
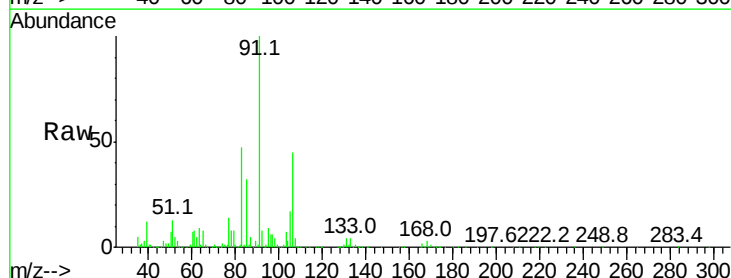
Instrument :
MSVOA_L
ClientSampleId :
VL0412ABS01

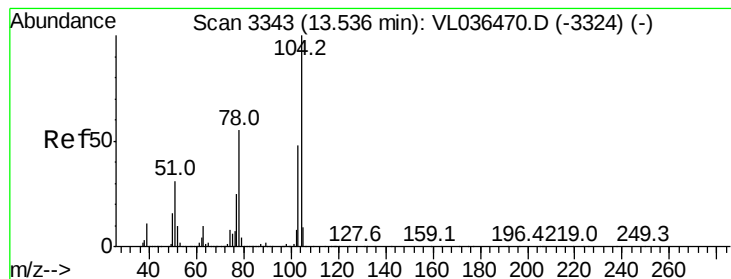
Tgt Ion: 91 Resp: 4777511
Ion Ratio Lower Upper
91 100
106 78.3 35.3 52.9#



#60
o-Xylene
Concen: 7.908 ppbv
RT: 13.72 min Scan# 3399
Delta R.T. 0.02 min
Lab File: VL036787.D
Acq: 12 Apr 2021 12:32

Tgt Ion: 91 Resp: 3927488
Ion Ratio Lower Upper
91 100
106 45.0 22.3 66.9





#61

Styrene

Concen: 9.406 ppbv

RT: 13.55 min Scan# 3348

Delta R.T. 0.02 min

Lab File: VL036787.D

Acq: 12 Apr 2021 12:32

Instrument :

MSVOA_L

ClientSampleId :

VL0412ABS01

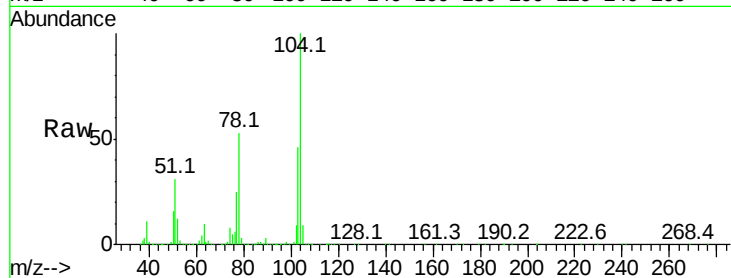
Tgt Ion:104 Resp: 2350142

Ion Ratio Lower Upper

104 100

78 53.6 43.8 65.8

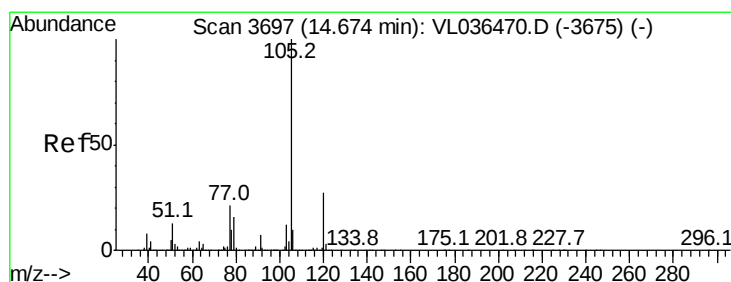
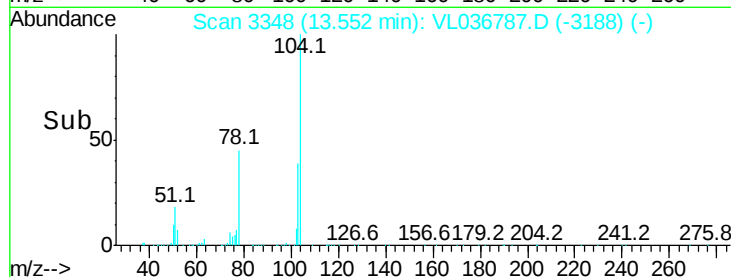
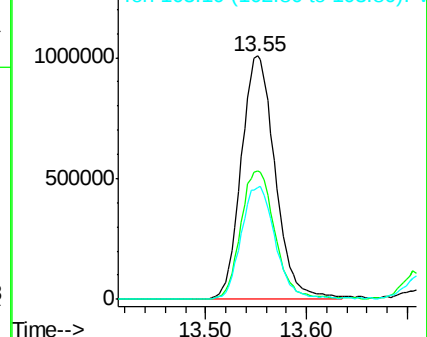
103 47.1 38.3 57.5



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 7.999 ppbv

RT: 14.69 min Scan# 3702

Delta R.T. 0.02 min

Lab File: VL036787.D

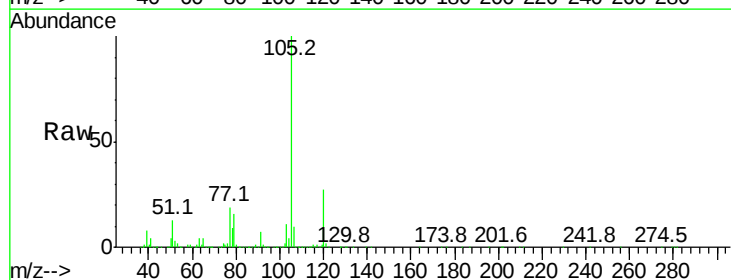
Acq: 12 Apr 2021 12:32

Tgt Ion:105 Resp: 5350158

Ion Ratio Lower Upper

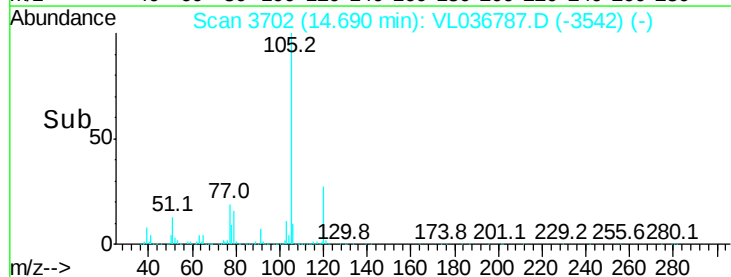
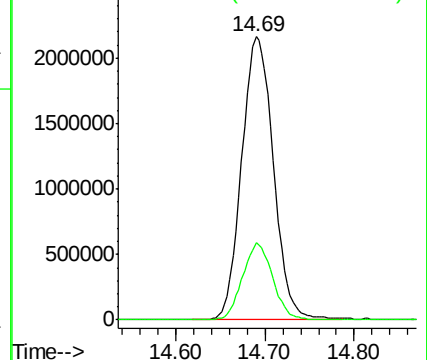
105 100

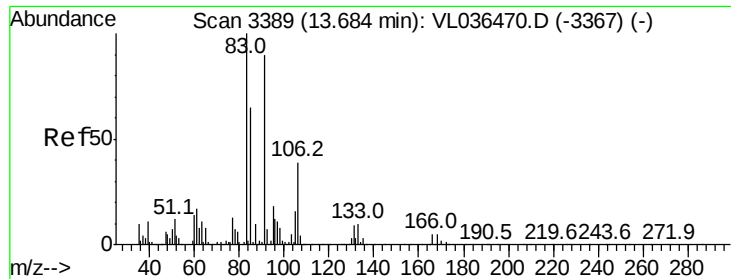
120 26.0 20.6 31.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

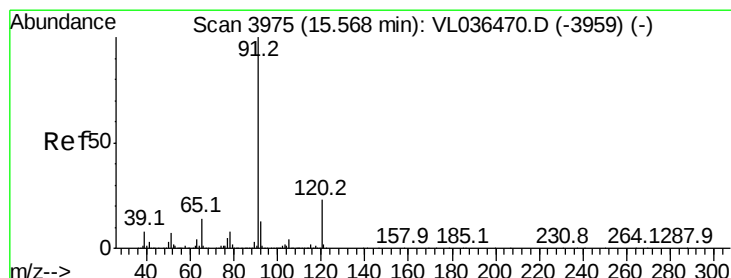
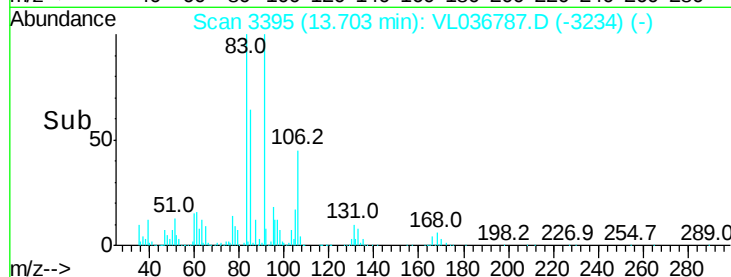
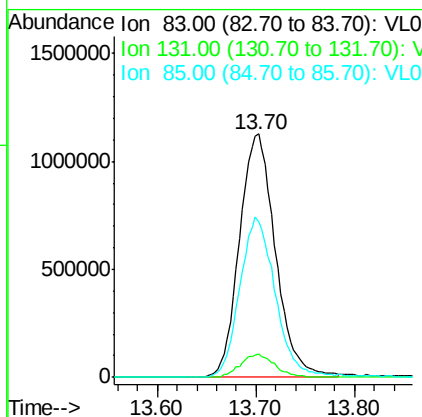
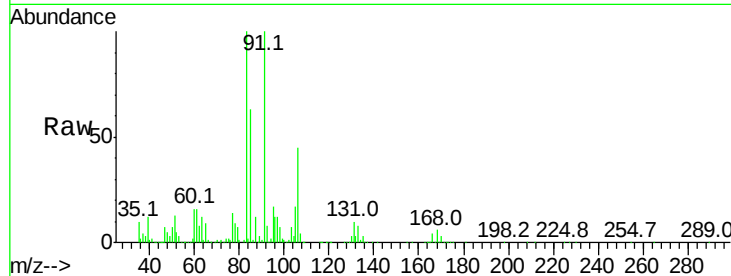




#63
 1,1,2,2-Tetrachloroethane
 Concen: 7.530 ppbv
 RT: 13.70 min Scan# 3395
 Delta R.T. 0.02 min
 Lab File: VL036787.D
 Acq: 12 Apr 2021 12:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0412ABS01

Tgt Ion: 83 Resp: 2852840
 Ion Ratio Lower Upper
 83 100
 131 9.3 4.7 14.0
 85 65.4 33.1 99.3



#64
 n-propylbenzene
 Concen: 8.513 ppbv
 RT: 15.58 min Scan# 3980
 Delta R.T. 0.02 min
 Lab File: VL036787.D
 Acq: 12 Apr 2021 12:32

Tgt Ion: 120 Resp: 1392038
 Ion Ratio Lower Upper
 120 100
 91 476.8 377.4 566.2

