

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040821\
 Data File : VL036753.D
 Acq On : 8 Apr 2021 16:46
 Operator : SY/AP
 Sample : M1981-02DUP 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-4DUP

Quant Time: Apr 09 08:39:32 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	1498156	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3720911	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3033440	10.00	ppbv	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.41	95	1035720	4.28	ppbv	0.00	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	42.80%#	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.99	51	37112	0.133	ppbv #	68
4) Chloromethane	3.13	50	5984	0.061	ppbv	96
5) Vinyl Chloride	3.25	62	346370	3.407	ppbv	93
7) Chloroethane	3.31	64	1431	0.041	ppbv #	42
9) Propene	3.00	41	341048	3.822	ppbv	95
10) Heptane	8.12	43	214384	0.943	ppbv	89
13) Ethanol	3.60	45	22014	2.072	ppbv	73
15) Acetone	3.84	43	6316241	42.835	ppbv	99
16) 1,3-Butadiene	3.30	39	314708	3.066	ppbv #	19
17) tert-Butyl alcohol	4.25	59	199910	1.557	ppbv #	1
19) Isopropyl Alcohol	3.97	45	409269	5.046	ppbv #	1
20) Methylene Chloride	4.34	84	63904	0.926	ppbv	96
21) Allyl Chloride	4.36	41	8720	0.074	ppbv #	1
22) trans-1,2-Dichloroethene	4.88	96	16887	0.257	ppbv	83
23) Vinyl Acetate	5.05	43	64687	0.256	ppbv #	1
25) Ethyl Acetate	5.68	43	174841	0.499	ppbv #	81
26) Hexane	5.68	57	239179	1.470	ppbv #	48
27) Carbon Disulfide	4.54	76	207234	1.293	ppbv	95
30) Cyclohexane	7.12	84	179553	1.361	ppbv #	72
31) cis-1,2-Dichloroethene	5.55	61	662242	4.209	ppbv	98
34) 2-Butanone	5.24	43	1320770	7.272	ppbv	99
36) Benzene	6.89	78	436491	1.272	ppbv	97
38) Trichloroethene	7.83	130	725034	5.429	ppbv	93
39) 1,2-Dichloropropane	7.17	63	975121	7.005	ppbv #	23
41) Tetrahydrofuran	6.31	42	23897	0.285	ppbv #	42
42) Bromodichloromethane	7.79	83	91661	0.334	ppbv #	25
44) 2,2,4-Trimethylpentane	7.87	57	3140603	5.200	ppbv #	74
47) 1,1,2-Trichloroethane	9.56	97	29826	0.212	ppbv #	50
50) 4-Methyl-2-Pentanone	8.75	43	207640	0.790	ppbv	92
51) 2-Hexanone	10.11	43	839180	6.327	ppbv #	35
53) Toluene	9.81	91	274374	0.751	ppbv	98
57) Chlorobenzene	12.15	112	61369	0.238	ppbv #	71
58) Ethyl Benzene	12.71	91	332019	0.752	ppbv	91
59) m/p-Xylene	12.97	91	690437	1.794	ppbv	90
60) o-Xylene	13.69	91	703880	1.891	ppbv	99
62) Isopropylbenzene	14.67	105	160807	0.321	ppbv	99
64) n-propylbenzene	15.56	120	24935	0.203	ppbv #	1
65) tert-Butylbenzene	16.76	119	93206	0.214	ppbv #	64
66) Benzyl Chloride	16.99	91	2698	0.056	ppbv #	1
67) sec-Butylbenzene	17.30	105	129670	0.211	ppbv	98
69) p-Isopropyltoluene	17.65	119	116515	0.243	ppbv #	46

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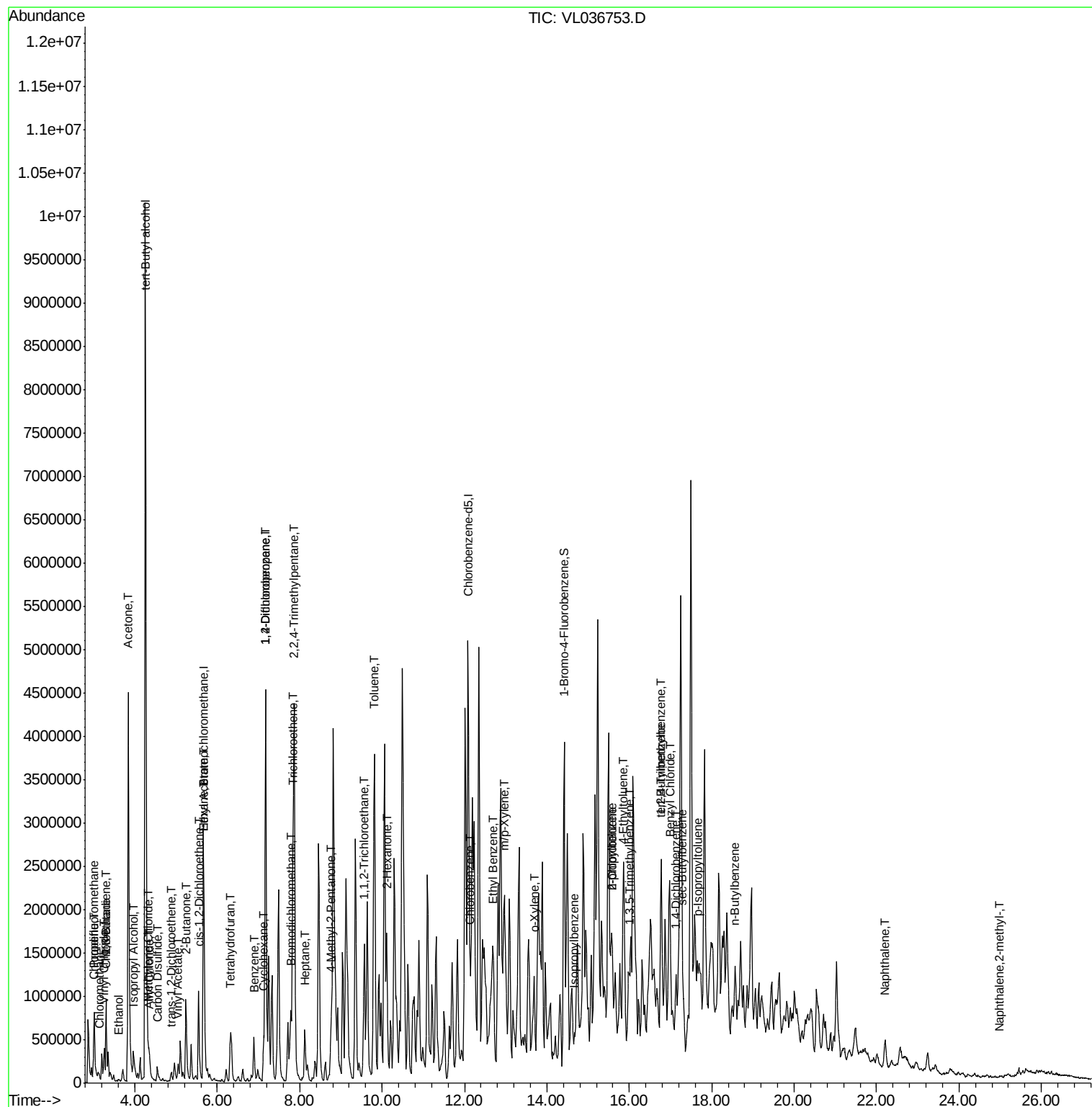
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) n-Butylbenzene	18.55	91	80091	0.161	ppbv #	80
71) 2-Chlorotoluene	15.56	91	184864	0.492	ppbv	72
72) 4-Ethyltoluene	15.84	105	247300	0.606	ppbv #	92
73) 1,3,5-Trimethylbenzene	16.00	105	430645	1.131	ppbv	99
74) 1,2,4-Trimethylbenzene	16.76	105	700738	1.720	ppbv #	67
76) 1,4-Dichlorobenzene	17.13	146	9387	0.041	ppbv #	1
79) Naphthalene	22.19	128	46654	0.196	ppbv	99
80) Naphthalene,2-methyl-	24.96	142	1748	0.037	ppbv #	60

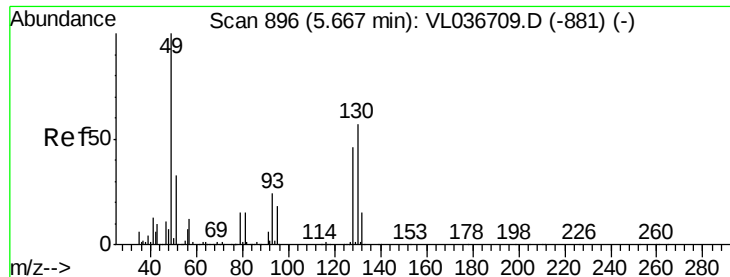
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.01 min

Lab File: VL036753.D

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Instrument :

MSVOA_L

ClientSampleId :

SG-4DUP

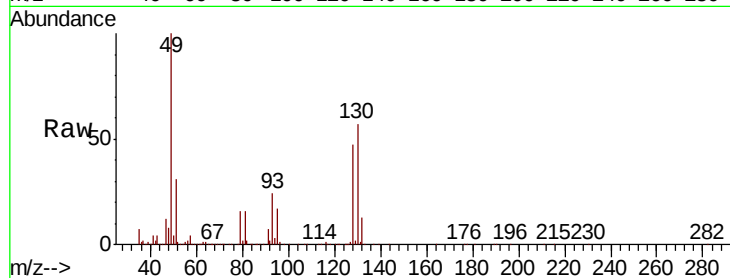
Tot Ion: 49 Resp: 1498156

Ion Ratio Lower Upper

49 100

128 46.9 23.5 70.6

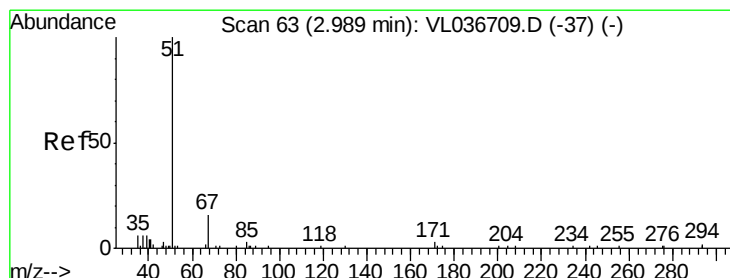
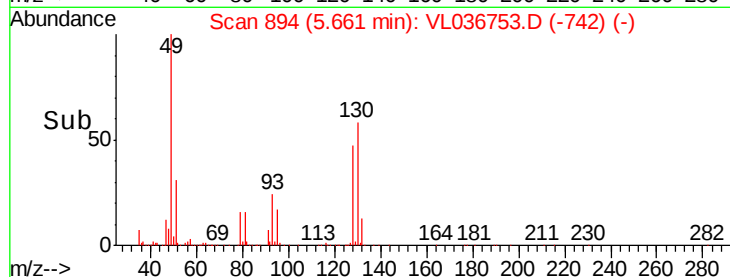
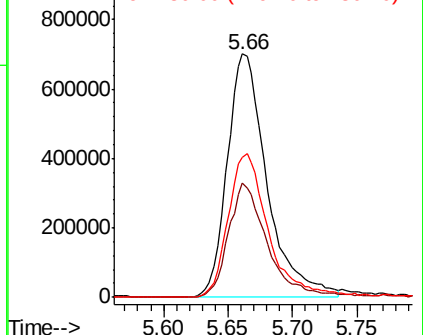
130 61.7 29.1 87.4



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



#3

Chlorodifluoromethane

Concen: 0.133 ppbv

RT: 2.99 min Scan# 63

Delta R.T. 0.00 min

Lab File: VL036753.D

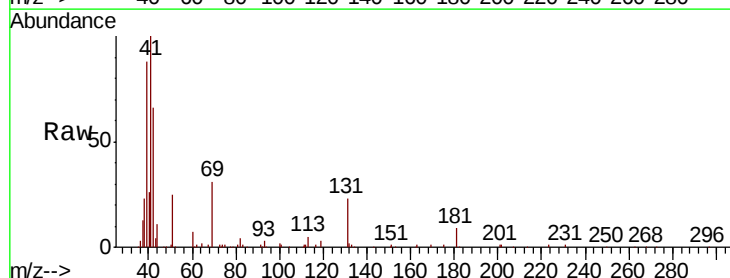
Acq: 8 Apr 2021 16:46

Tgt Ion: 51 Resp: 37112

Ion Ratio Lower Upper

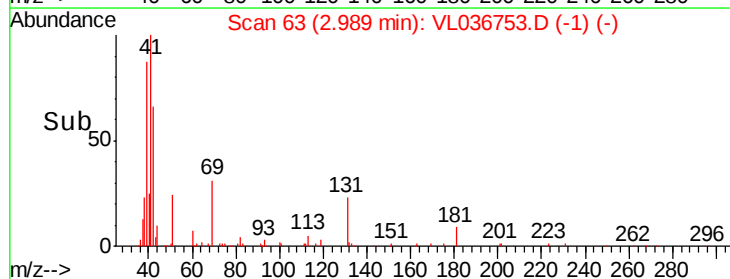
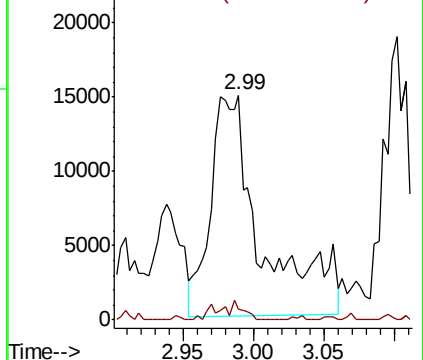
51 100

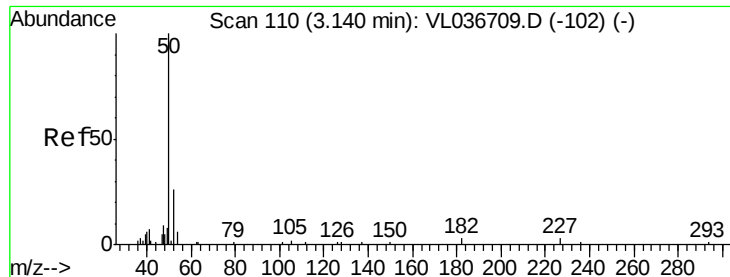
67 4.0 14.7 22.1#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.061 ppbv

RT: 3.13 min Scan# 108

Delta R.T. -0.01 min

Lab File: VL036753.D

Acq: 8 Apr 2021 16:46

Instrument :

MSVOA_L

ClientSampleId :

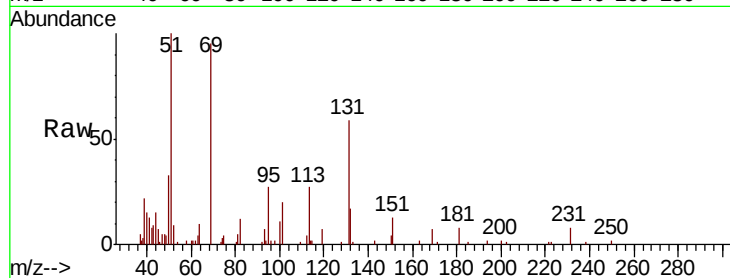
SG-4DUP

Tot Ion: 50 Resp: 5984

Ion Ratio Lower Upper

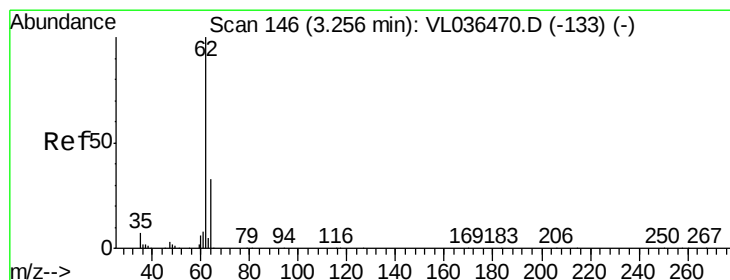
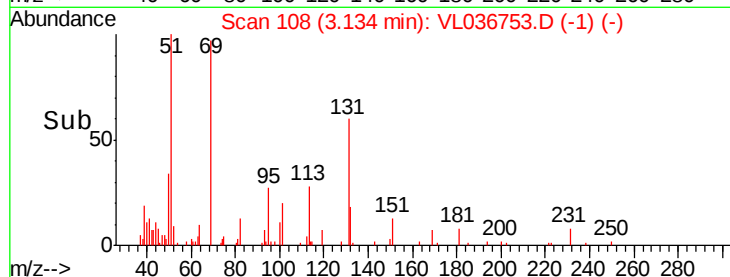
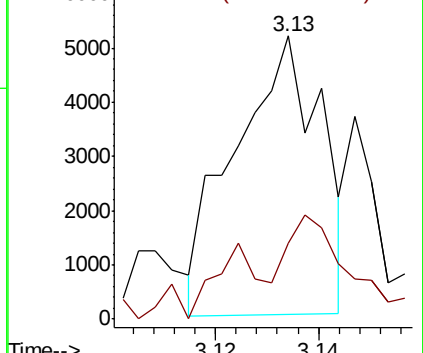
50 100

52 31.7 27.0 40.6



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#5

Vinyl Chloride

Concen: 3.407 ppbv

RT: 3.25 min Scan# 144

Delta R.T. -0.01 min

Lab File: VL036753.D

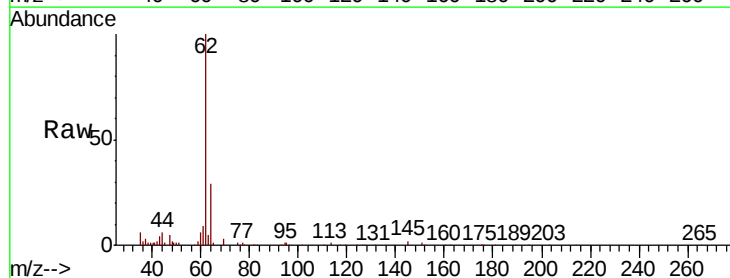
Acq: 8 Apr 2021 16:46

Tgt Ion: 62 Resp: 346370

Ion Ratio Lower Upper

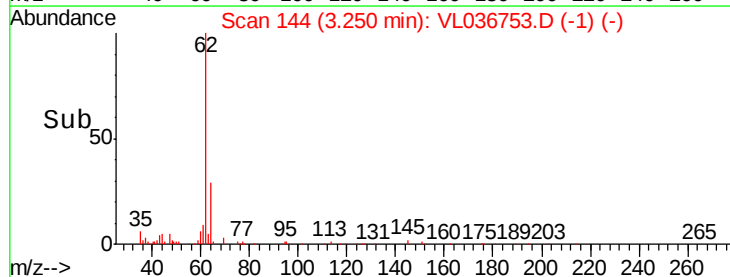
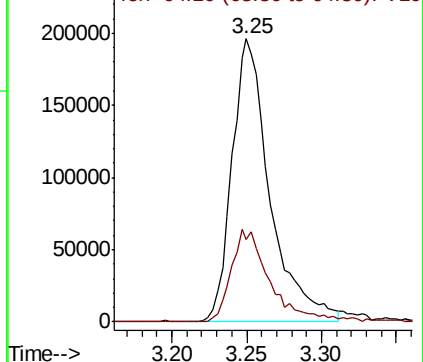
62 100

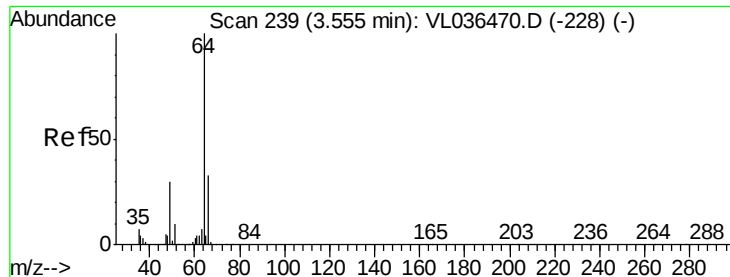
64 28.8 26.4 39.6



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0





#7

Chloroethane

Concen: 0.041 ppbv

RT: 3.31 min Scan# 164

Delta R.T. -0.24 min

Lab File: VL036753.D

Acq: 8 Apr 2021 16:46

Instrument :

MSVOA_L

ClientSampleId :

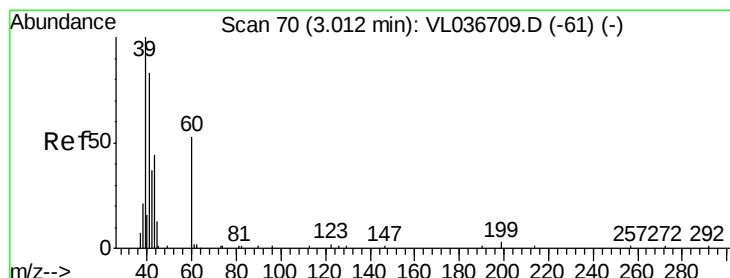
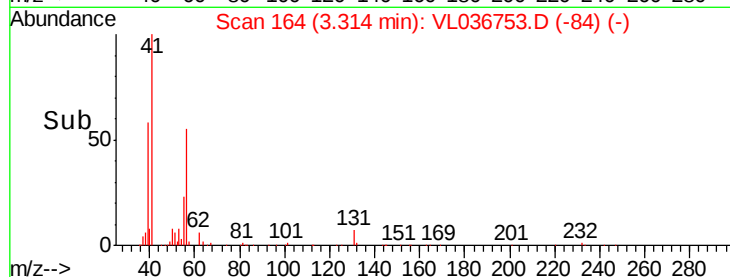
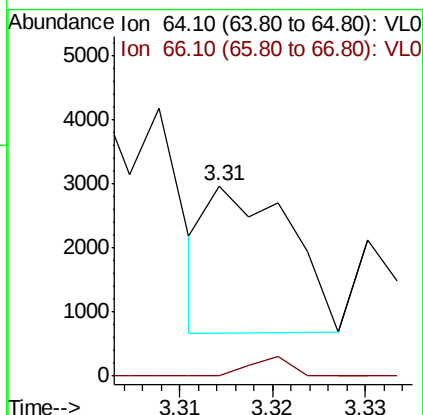
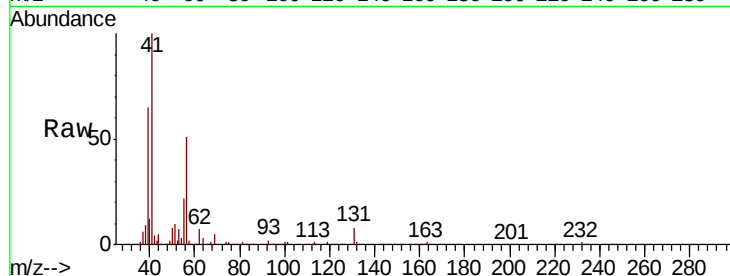
SG-4DUP

Tot Ion: 64 Resp: 1431

Ion Ratio Lower Upper

64 100

66 0.0 26.2 39.2#



#9

Propene

Concen: 3.822 ppbv

RT: 3.00 min Scan# 67

Delta R.T. -0.01 min

Lab File: VL036753.D

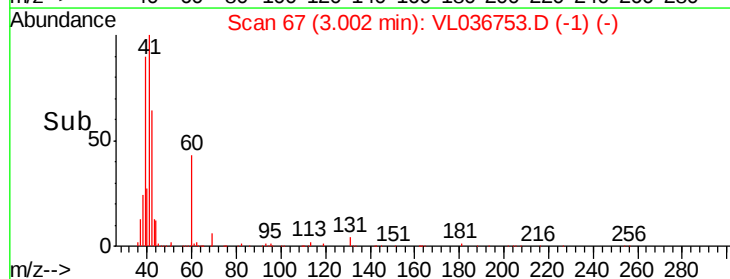
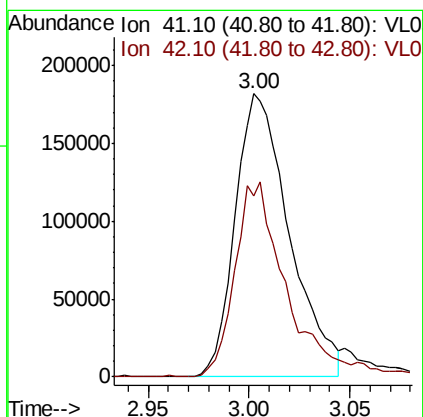
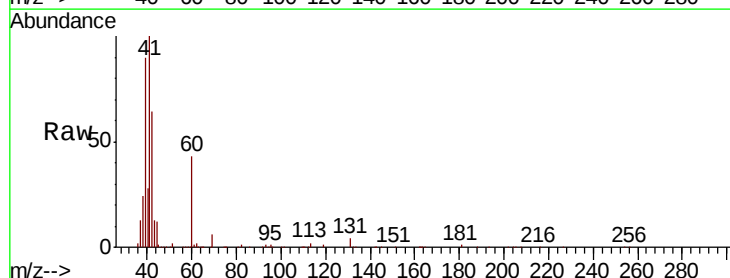
Acq: 8 Apr 2021 16:46

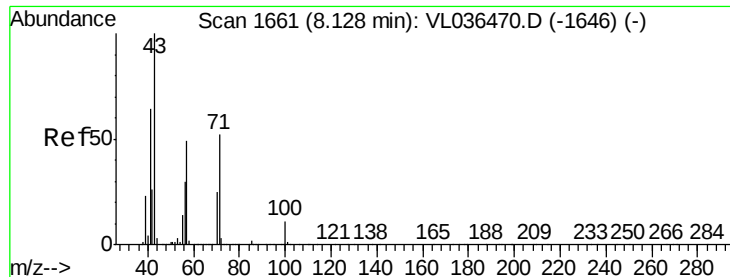
Tgt Ion: 41 Resp: 341048

Ion Ratio Lower Upper

41 100

42 67.2 57.0 85.4





#10

Heptane

Concen: 0.943 ppbv

RT: 8.12 min Scan# 1659

Delta R.T. -0.01 min

Lab File: VL036753.D

Acq: 8 Apr 2021 16:46

Instrument :

MSVOA_L

ClientSampleId :

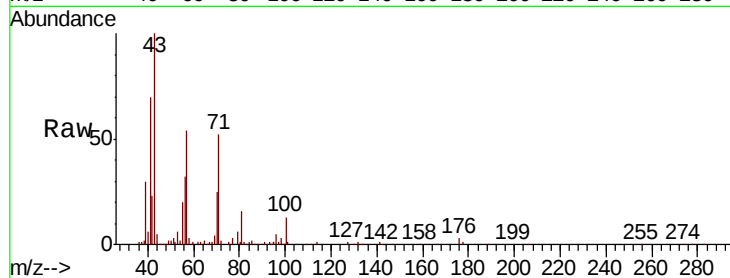
SG-4DUP

Tot Ion: 43 Resp: 214384

Ion Ratio Lower Upper

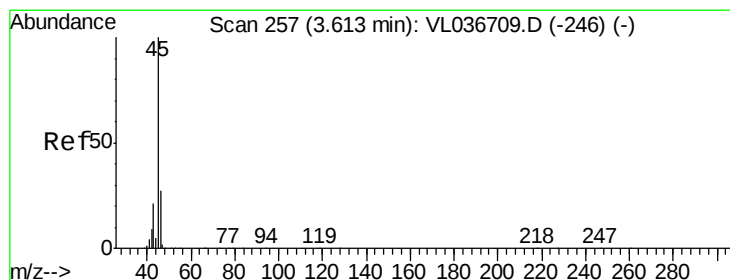
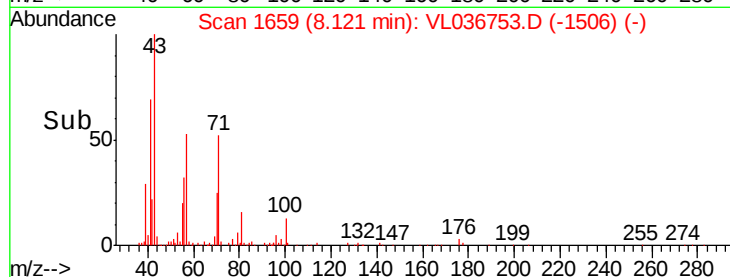
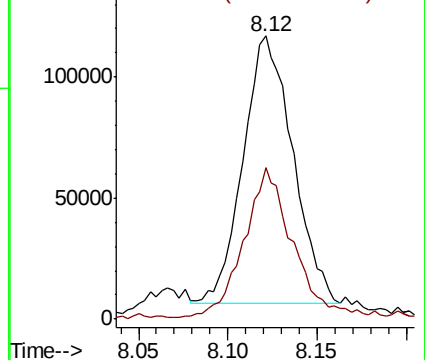
43 100

57 56.3 39.0 58.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#13

Ethanol

Concen: 2.072 ppbv

RT: 3.60 min Scan# 254

Delta R.T. -0.00 min

Lab File: VL036753.D

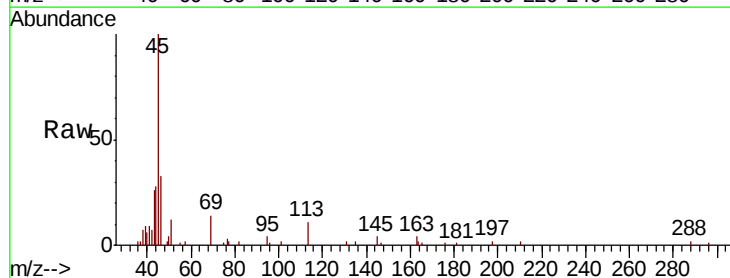
Acq: 8 Apr 2021 16:46

Tgt Ion: 45 Resp: 22014

Ion Ratio Lower Upper

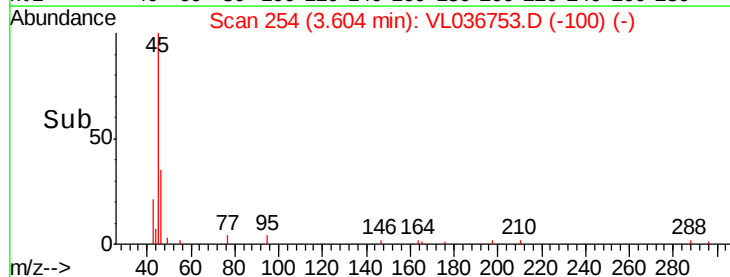
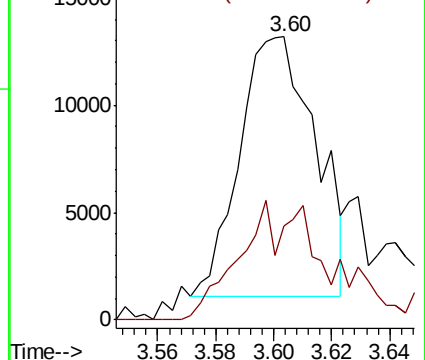
45 100

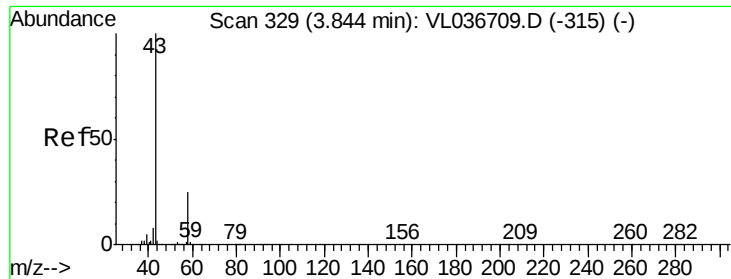
46 58.4 16.6 66.2



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 42.835 ppbv

RT: 3.84 min Scan# 327

Delta R.T. -0.01 min

Lab File: VL036753.D

Acq: 8 Apr 2021 16:46

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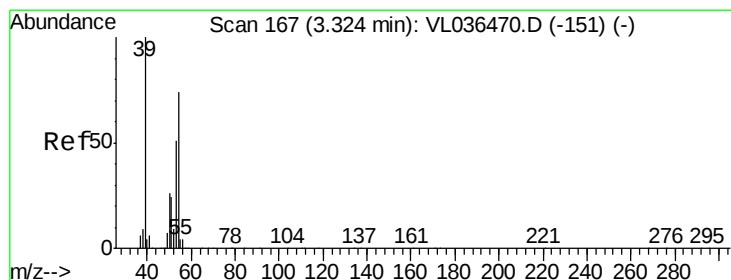
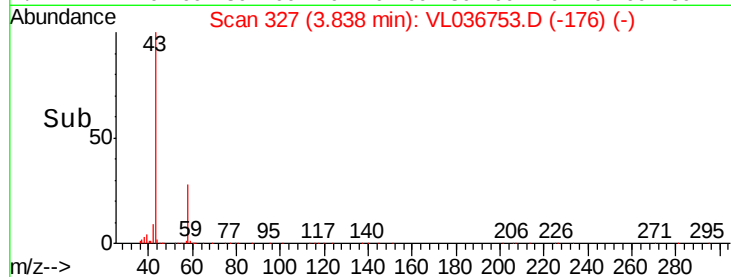
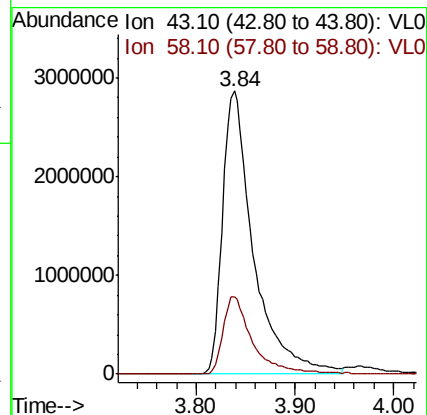
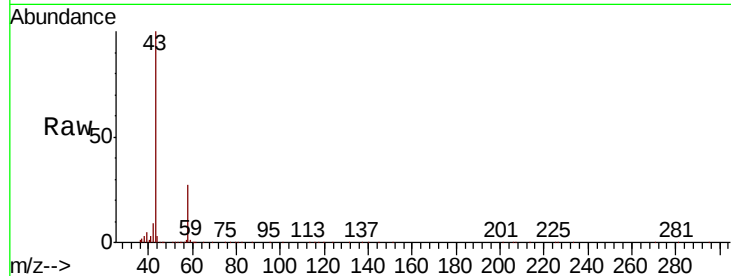
SG-4DUP

Tot Ion: 43 Resp: 6316241

Ion Ratio Lower Upper

43 100

58 27.0 21.2 31.8



#16

1,3-Butadiene

Concen: 3.066 ppbv

RT: 3.30 min Scan# 160

Delta R.T. -0.02 min

Lab File: VL036753.D

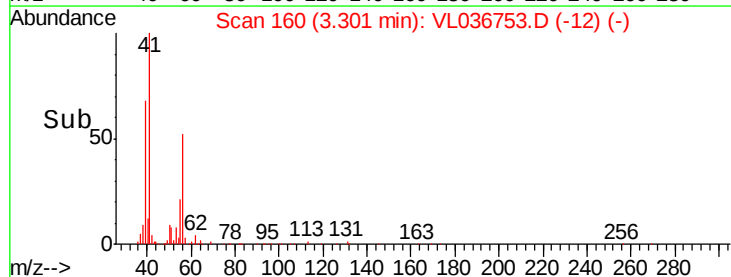
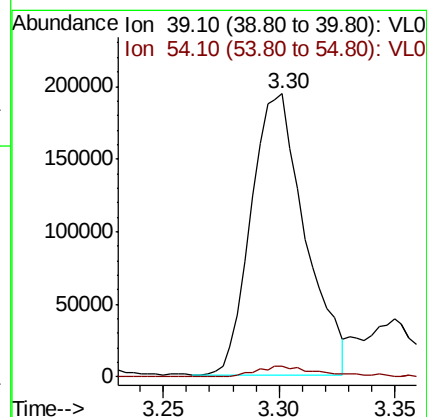
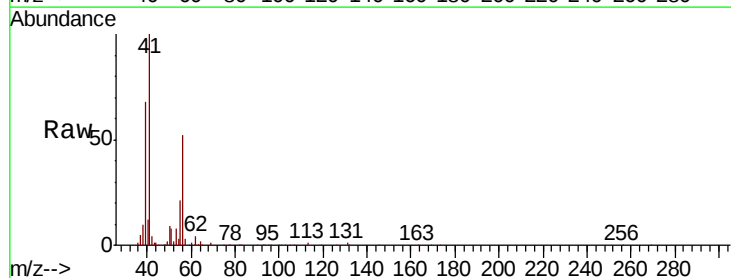
Acq: 8 Apr 2021 16:46

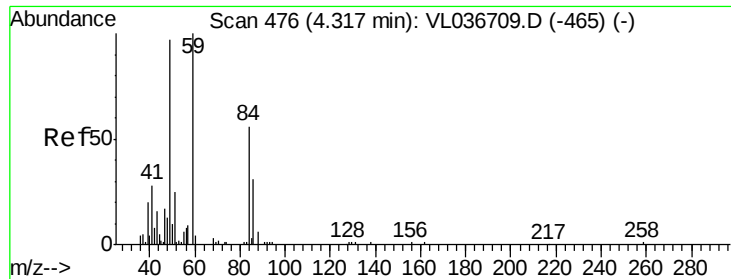
Tgt Ion: 39 Resp: 314708

Ion Ratio Lower Upper

39 100

54 5.1 58.8 88.2#



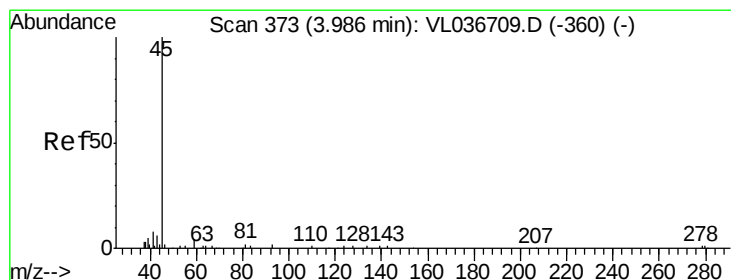
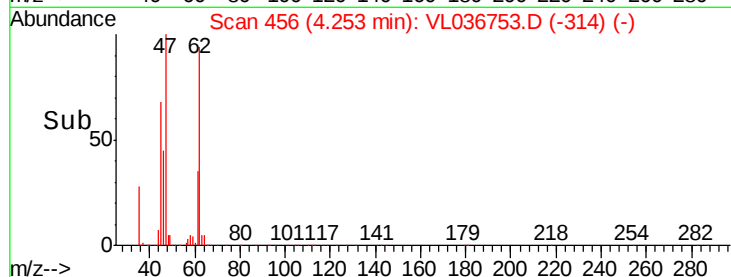
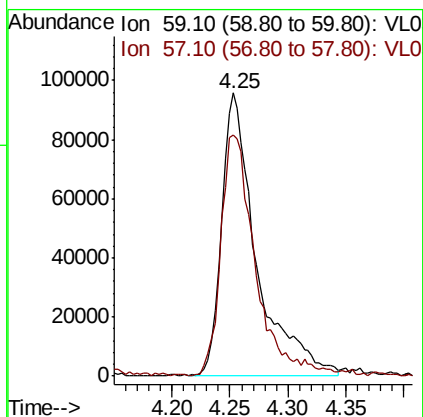
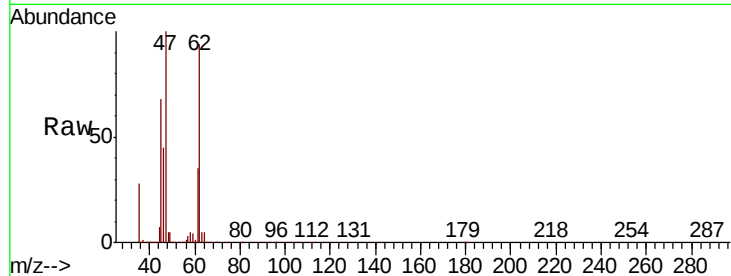


#17

tert-Butyl alcohol
 Concen: 1.557 ppbv
 RT: 4.25 min Scan# 456
 Delta R.T. -0.04 min
 Lab File: VL036753.D
 Acq: 8 Apr 2021 16:46

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-4DUP

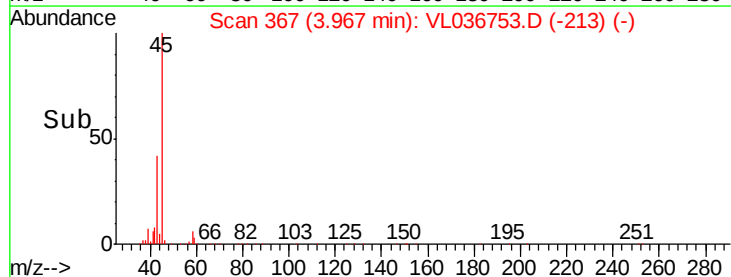
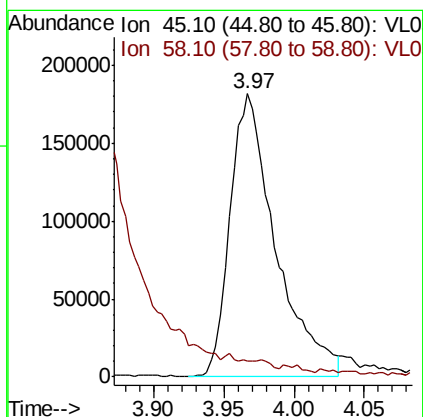
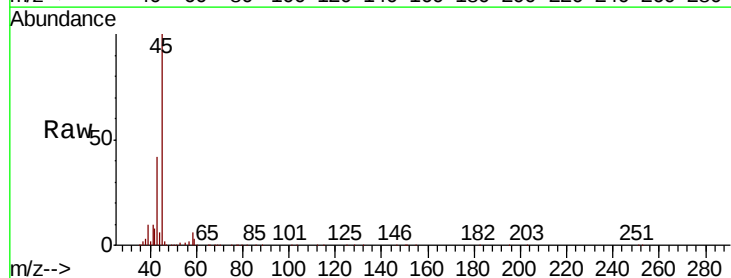
Tot Ion: 59 Resp: 199910
 Ion Ratio Lower Upper
 59 100
 57 85.2 8.6 12.8#

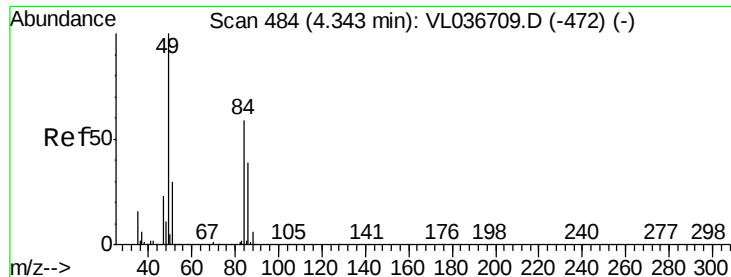


#19

Isopropyl Alcohol
 Concen: 5.046 ppbv
 RT: 3.97 min Scan# 367
 Delta R.T. -0.00 min
 Lab File: VL036753.D
 Acq: 8 Apr 2021 16:46

Tgt Ion: 45 Resp: 409269
 Ion Ratio Lower Upper
 45 100
 58 413.1 2.9 4.3#

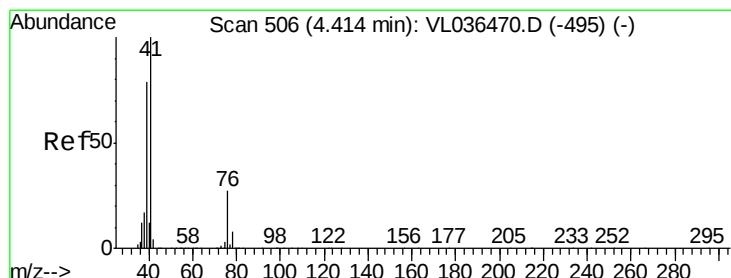
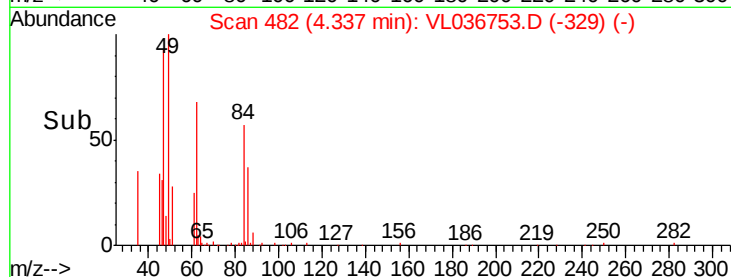
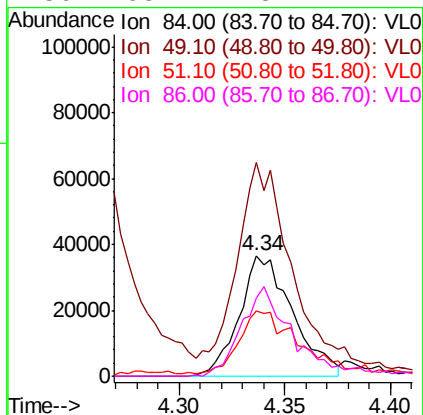
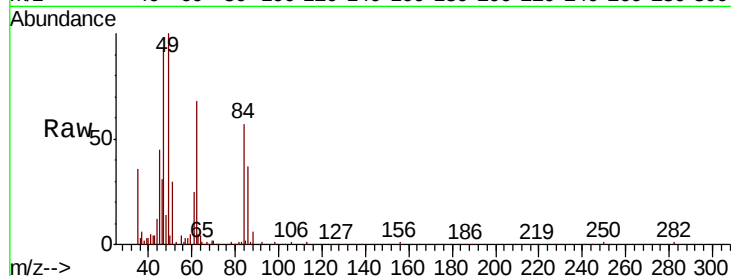




#20
Methylene Chloride
Concen: 0.926 ppbv
RT: 4.34 min Scan# 482
Delta R.T. -0.01 min
Lab File: VL036753.D
Acq: 8 Apr 2021 16:46

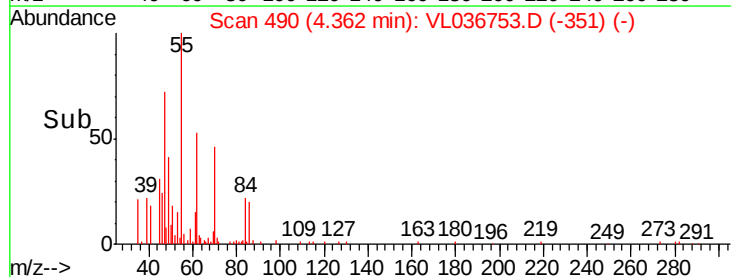
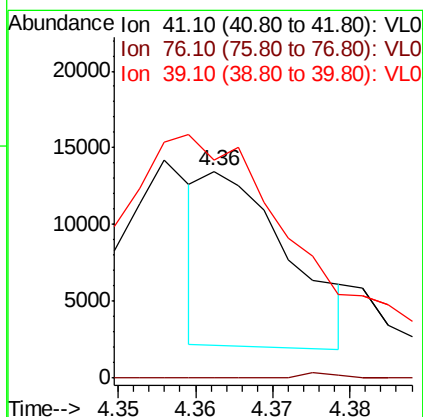
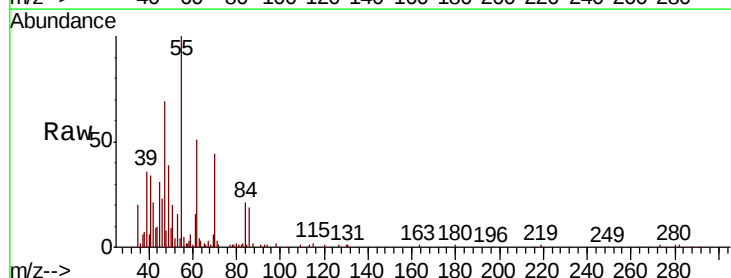
Instrument :
MSVOA_L
ClientSampleId :
SG-4DUP

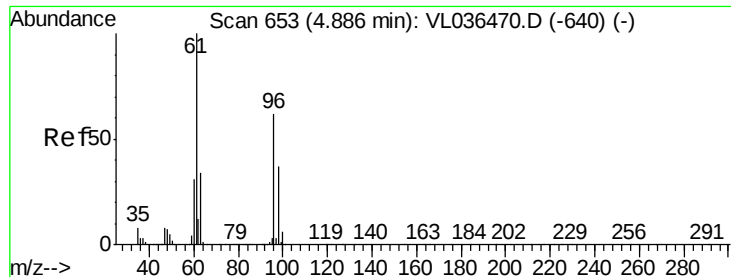
Tot Ion: 84 Resp: 63904
Ion Ratio Lower Upper
84 100
49 157.2 122.9 184.3
51 51.1 36.9 55.3
86 65.1 48.2 72.4



#21
Allyl Chloride
Concen: 0.074 ppbv
RT: 4.36 min Scan# 490
Delta R.T. -0.05 min
Lab File: VL036753.D
Acq: 8 Apr 2021 16:46

Tgt Ion: 41 Resp: 8720
Ion Ratio Lower Upper
41 100
76 0.0 22.9 34.3#
39 350.0 67.3 100.9#





#22

trans-1,2-Dichloroethene

Concen: 0.257 ppbv

RT: 4.88 min Scan# 651

Delta R.T. -0.01 min

Lab File: VL036753.D

Acq: 8 Apr 2021 16:46

Instrument :

MSVOA_L

ClientSampleId :

SG-4DUP

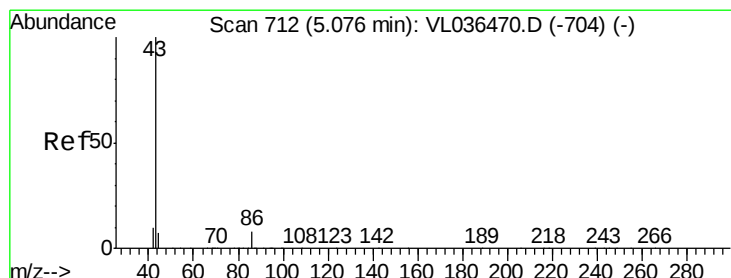
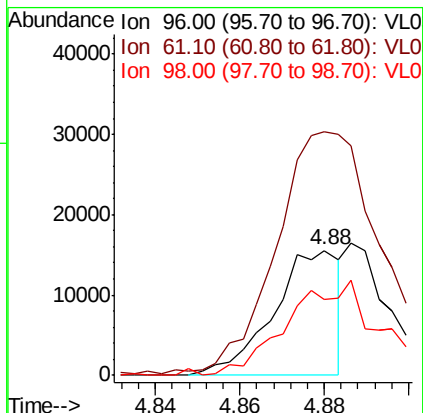
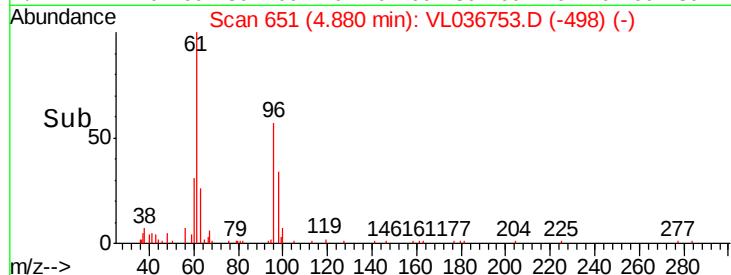
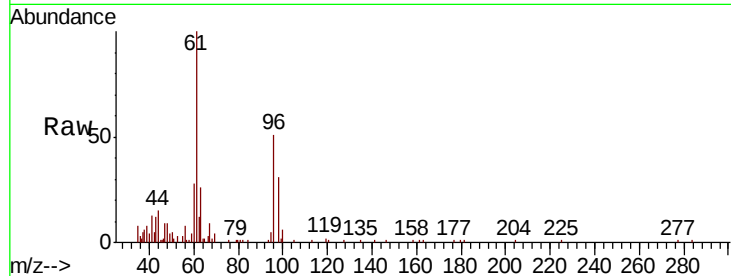
Tot Ion: 96 Resp: 16887

Ion Ratio Lower Upper

96 100

61 189.3 129.4 194.0

98 55.3 48.2 72.4



#23

Vinyl Acetate

Concen: 0.256 ppbv

RT: 5.05 min Scan# 704

Delta R.T. -0.03 min

Lab File: VL036753.D

Acq: 8 Apr 2021 16:46

Tgt Ion: 43 Resp: 64687

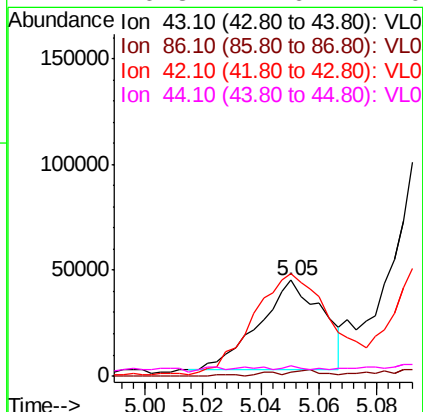
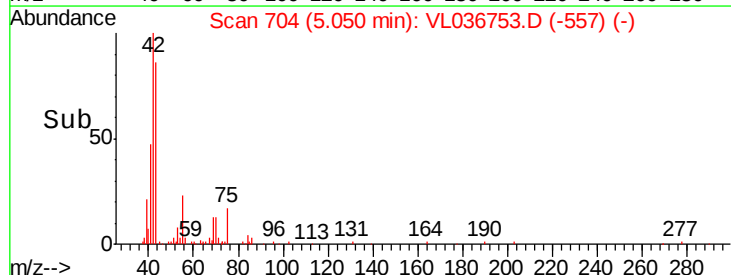
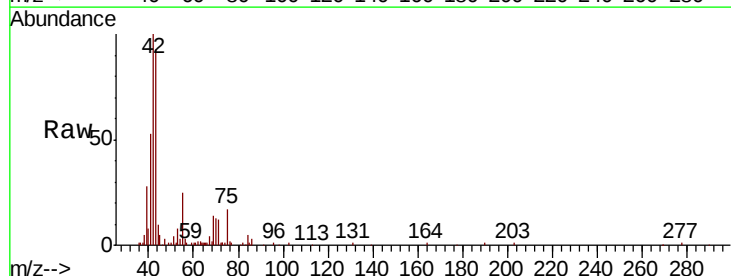
Ion Ratio Lower Upper

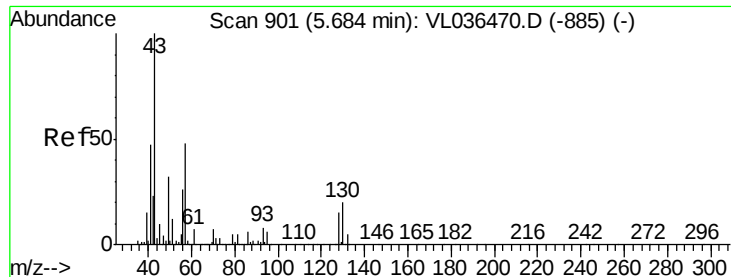
43 100

86 3.8 5.4 8.0#

42 112.9 8.5 12.7#

44 6.3 4.6 7.0





#25

Ethyl Acetate

Concen: 0.499 ppbv

RT: 5.68 min Scan# 901

Delta R.T. -0.00 min

Lab File: VL036753.D

Acq: 8 Apr 2021 16:46

Instrument :

MSVOA_L

ClientSampleId :

SG-4DUP

Tot Ion: 43 Resp: 174841

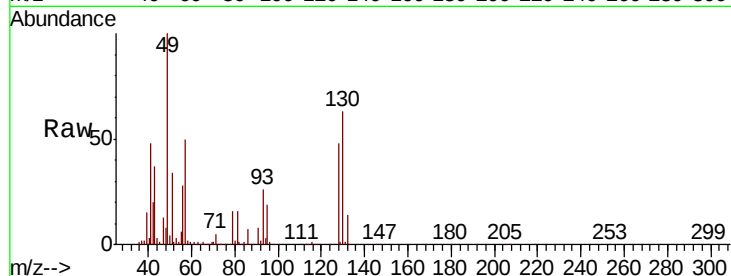
Ion Ratio Lower Upper

43 100

45 3.7 7.9 11.9#

61 0.0 7.4 11.2#

70 2.2 5.1 7.7#

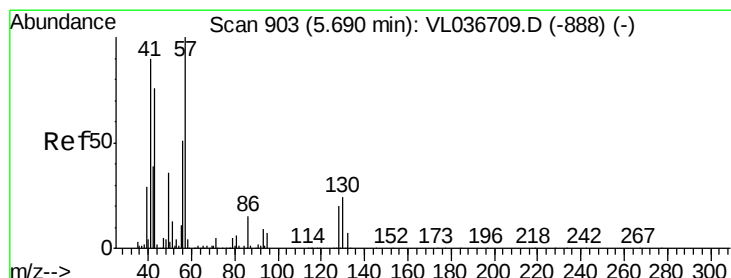
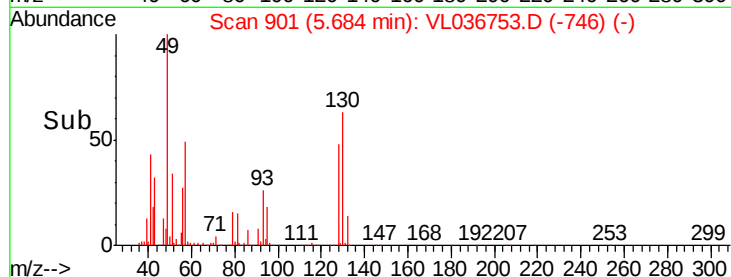
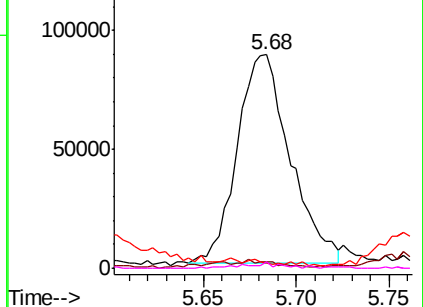


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 1.470 ppbv

RT: 5.68 min Scan# 901

Delta R.T. -0.00 min

Lab File: VL036753.D

Acq: 8 Apr 2021 16:46

Tgt Ion: 57 Resp: 239179

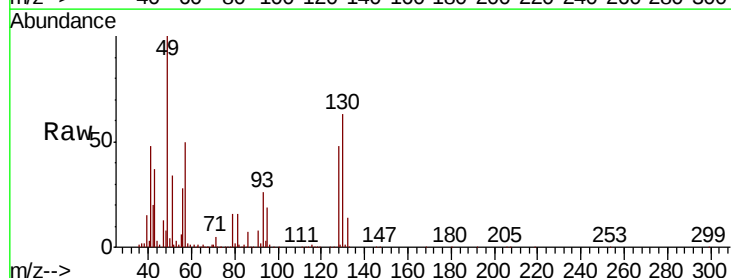
Ion Ratio Lower Upper

57 100

41 97.9 77.2 115.8

43 79.0 173.8 260.6#

56 57.2 43.8 65.6

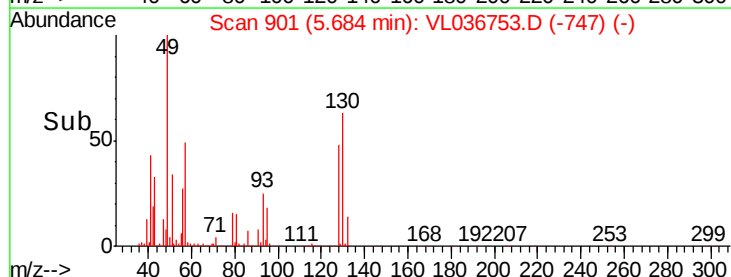
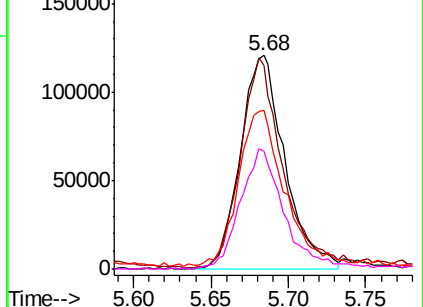


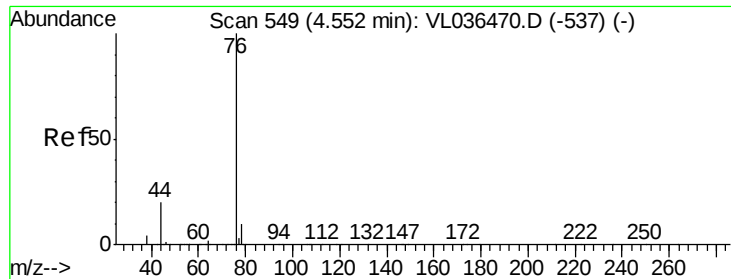
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 1.293 ppbv

RT: 4.54 min Scan# 546

Delta R.T. -0.01 min

Lab File: VL036753.D

Acq: 8 Apr 2021 16:46

Instrument :

MSVOA_L

ClientSampleId :

SG-4DUP

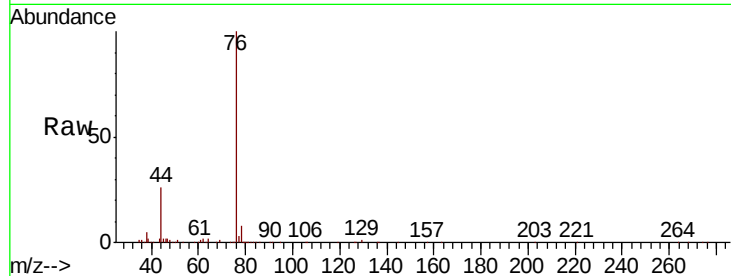
Tot Ion: 76 Resp: 207234

Ion Ratio Lower Upper

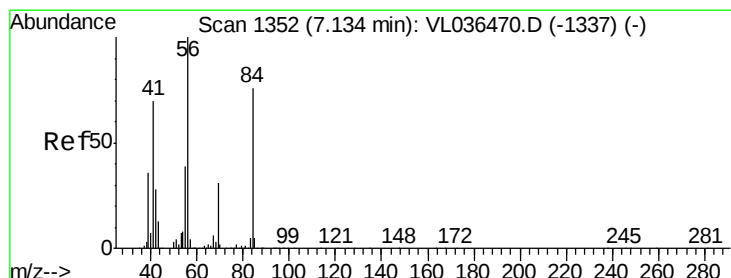
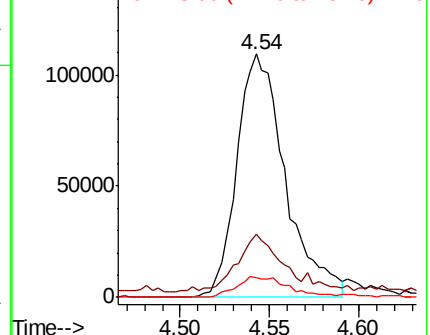
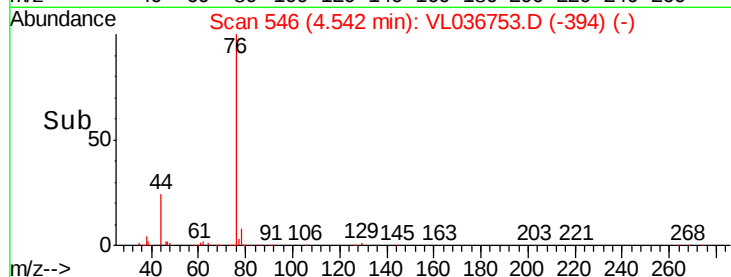
76 100

44 25.0 17.5 26.3

78 10.0 8.6 13.0



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#30

Cyclohexane

Concen: 1.361 ppbv

RT: 7.12 min Scan# 1349

Delta R.T. -0.01 min

Lab File: VL036753.D

Acq: 8 Apr 2021 16:46

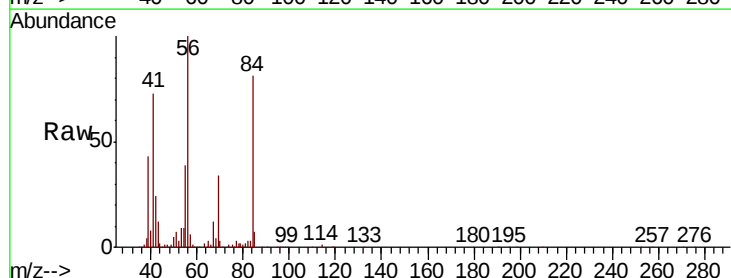
Tgt Ion: 84 Resp: 179553

Ion Ratio Lower Upper

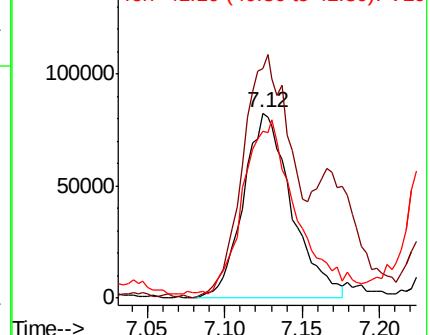
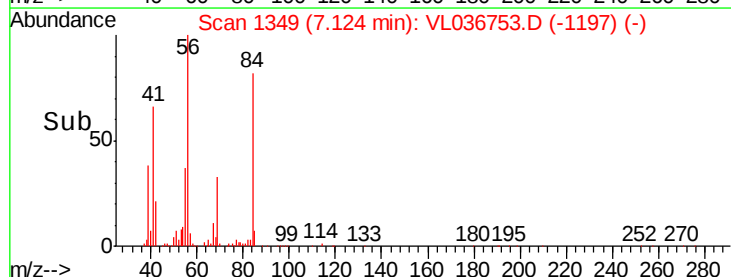
84 100

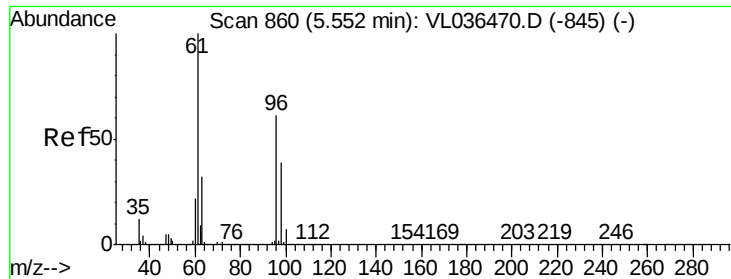
56 191.6 114.6 171.8#

41 104.6 75.3 112.9



Abundance Ion 84.20 (83.90 to 84.90): VL0
Ion 56.10 (55.80 to 56.80): VL0
Ion 41.10 (40.80 to 41.80): VL0



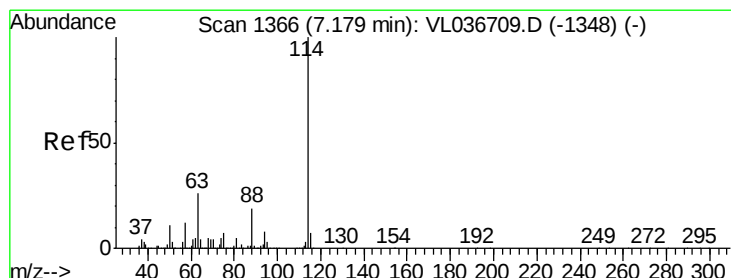
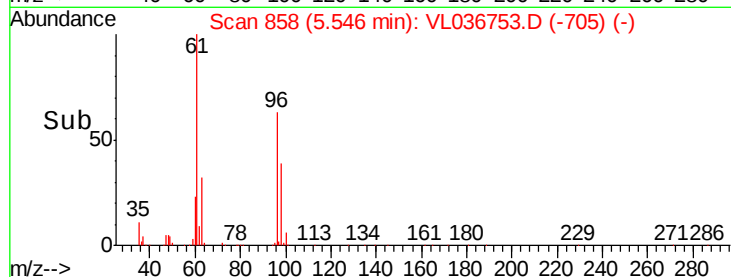
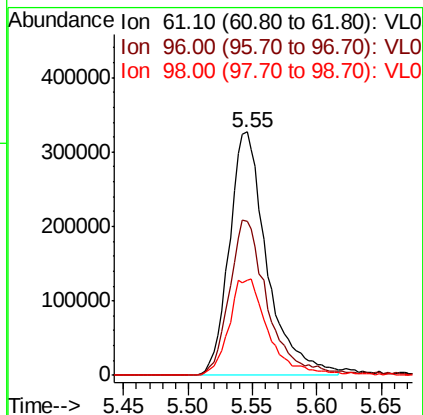
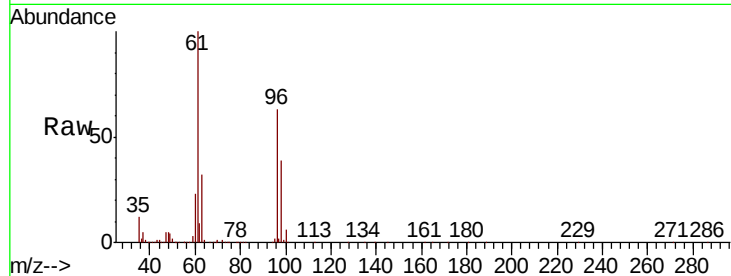


#31

cis-1,2-Dichloroethene
Concen: 4.209 ppbv
RT: 5.55 min Scan# 858
Delta R.T. -0.01 min
Lab File: VL036753.D
Acq: 8 Apr 2021 16:46

Instrument :
MSVOA_L
ClientSampleId :
SG-4DUP

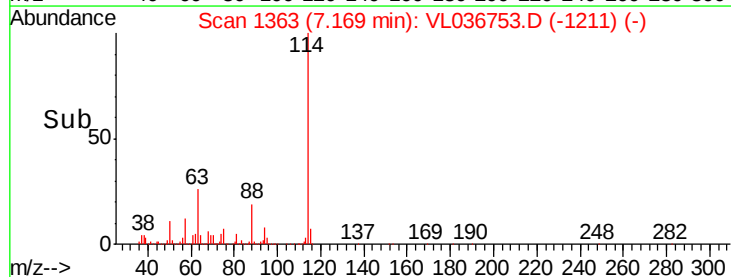
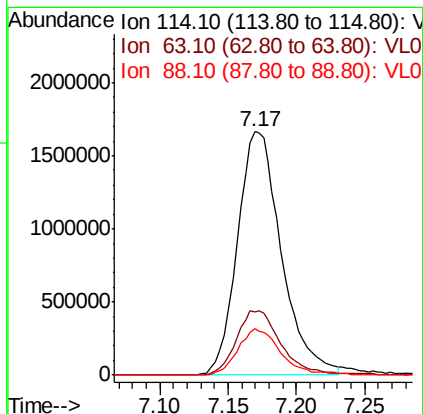
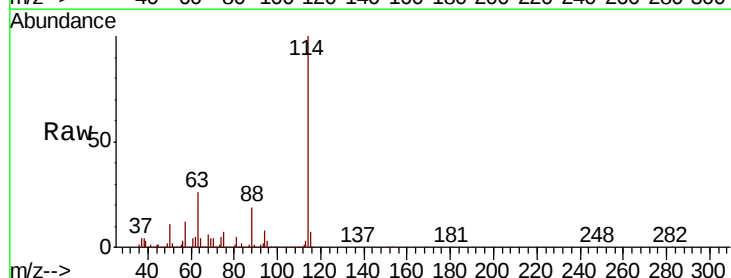
Tot Ion: 61 Resp: 662242
Ion Ratio Lower Upper
61 100
96 63.0 48.7 73.1
98 39.1 31.4 47.0

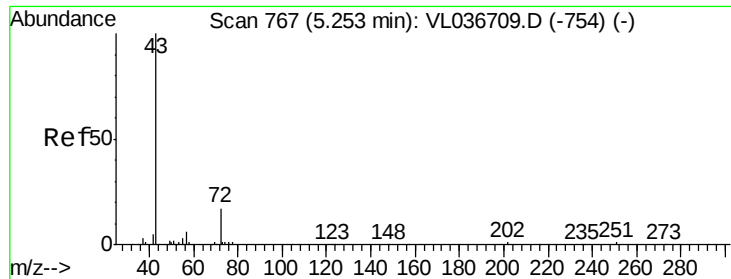


#33

1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1363
Delta R.T. -0.01 min
Lab File: VL036753.D
Acq: 8 Apr 2021 16:46

Tgt Ion:114 Resp: 3720911
Ion Ratio Lower Upper
114 100
63 27.3 22.4 33.6
88 19.0 15.4 23.0

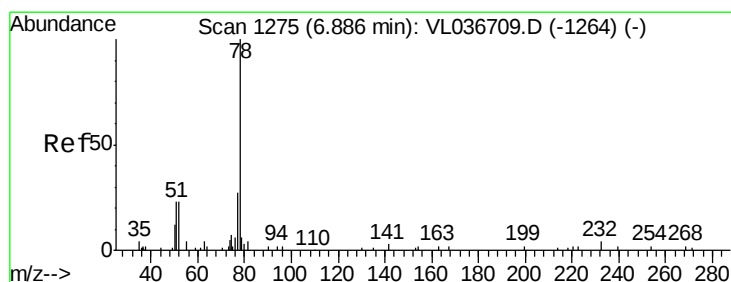
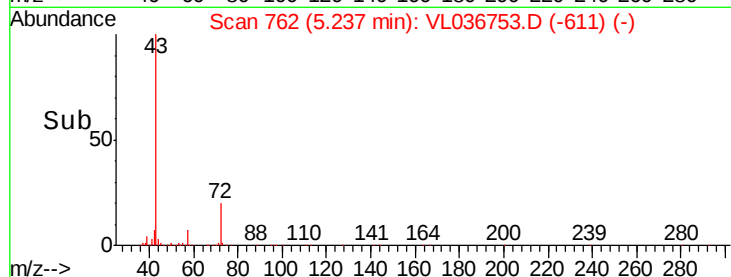
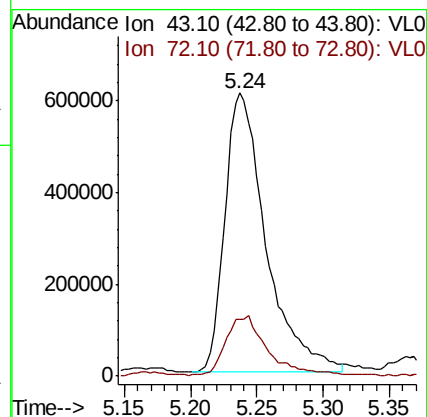
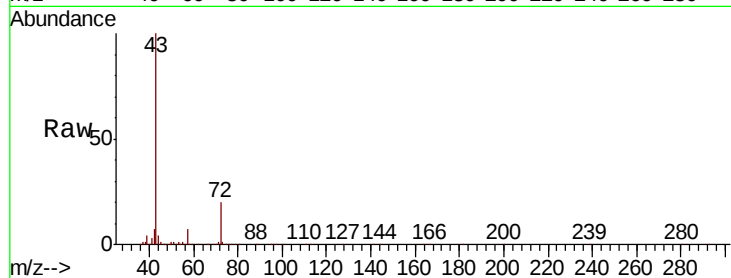




#34
2-Butanone
Concen: 7.272 ppbv
RT: 5.24 min Scan# 762
Delta R.T. -0.01 min
Lab File: VL036753.D
Acq: 8 Apr 2021 16:46

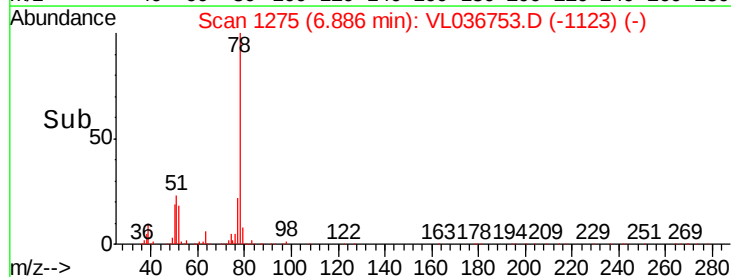
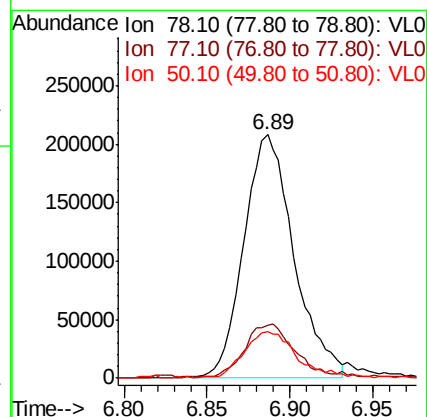
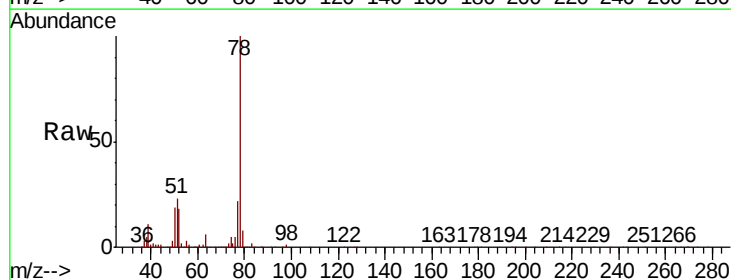
Instrument :
MSVOA_L
ClientSampleId :
SG-4DUP

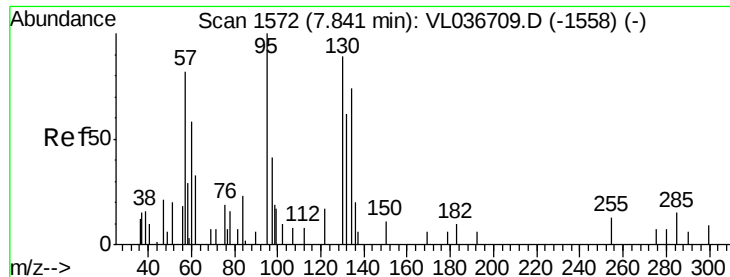
Tot Ion: 43 Resp: 1320770
Ion Ratio Lower Upper
43 100
72 21.6 17.0 25.6



#36
Benzene
Concen: 1.272 ppbv
RT: 6.89 min Scan# 1275
Delta R.T. -0.01 min
Lab File: VL036753.D
Acq: 8 Apr 2021 16:46

Tgt Ion: 78 Resp: 436491
Ion Ratio Lower Upper
78 100
77 21.3 18.0 27.0
50 18.6 16.5 24.7





#38

Trichloroethene

Concen: 5.429 ppbv

RT: 7.83 min Scan# 1569

Delta R.T. -0.01 min

Lab File: VL036753.D

Acq: 8 Apr 2021 16:46

Instrument :

MSVOA_L

ClientSampleId :

SG-4DUP

Tot Ion:130 Resp: 725034

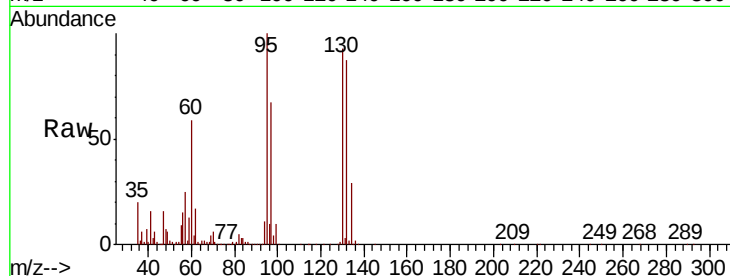
Ion Ratio Lower Upper

130 100

95 107.6 95.7 143.5

132 93.7 76.2 114.4

97 71.5 61.8 92.6

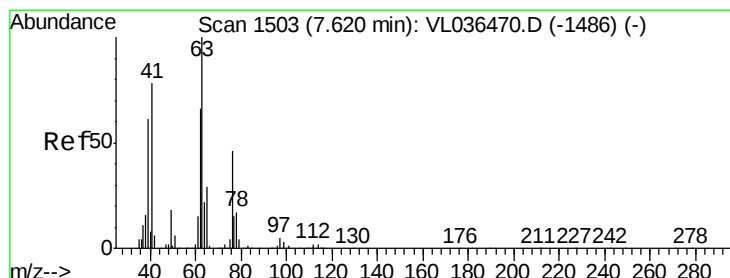
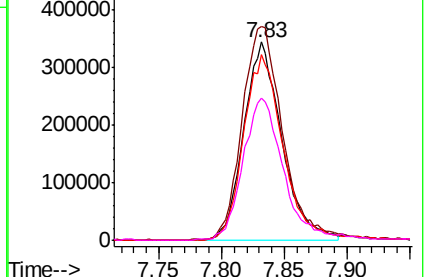
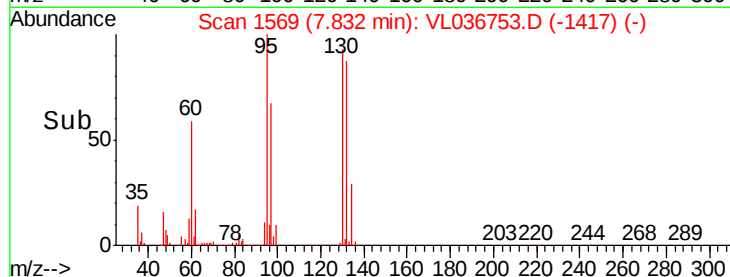


Abundance Ion 130.00 (129.70 to 130.70): V

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: 7.005 ppbv

RT: 7.17 min Scan# 1364

Delta R.T. -0.45 min

Lab File: VL036753.D

Acq: 8 Apr 2021 16:46

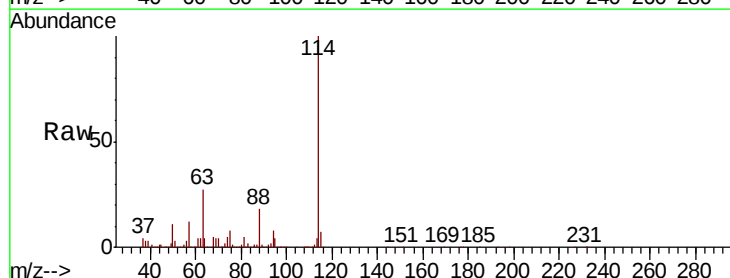
Tgt Ion: 63 Resp: 975121

Ion Ratio Lower Upper

63 100

41 0.0 62.4 93.6#

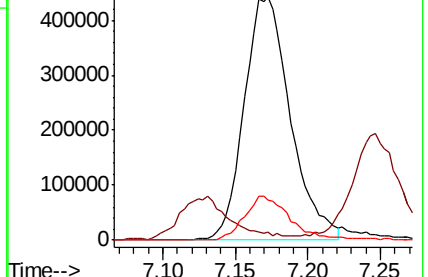
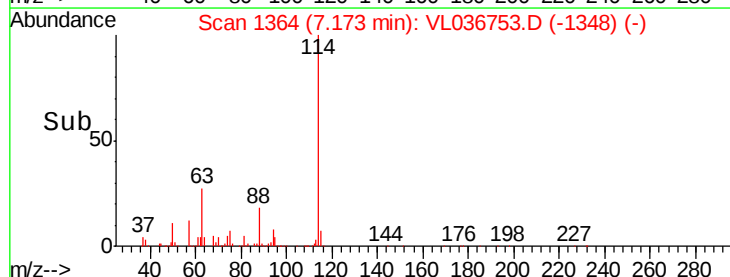
62 16.2 52.8 79.2#

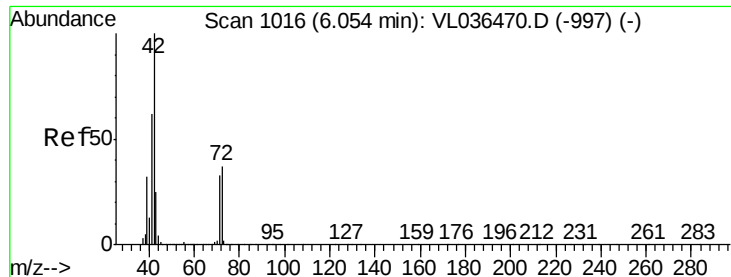


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0

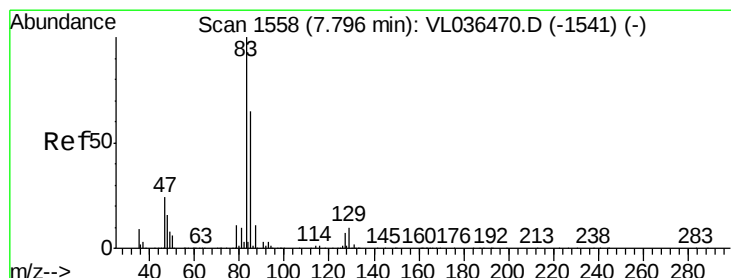
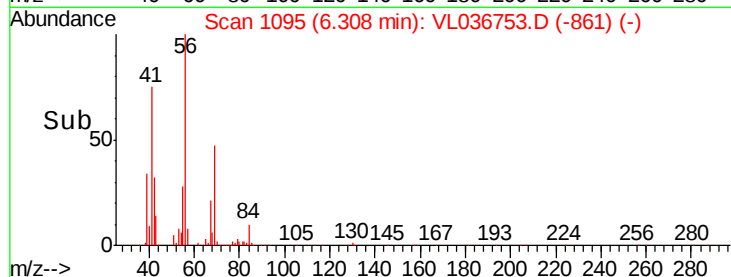
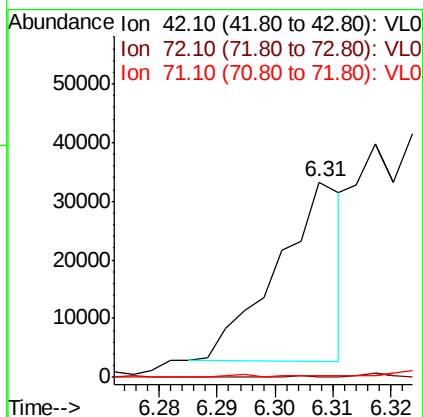
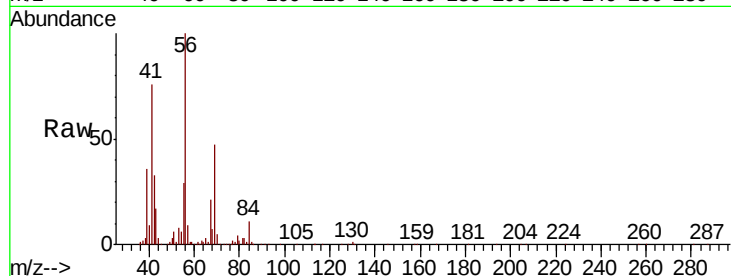




#41
Tetrahydrofuran
Concen: 0.285 ppbv
RT: 6.31 min Scan# 1095
Delta R.T. 0.25 min
Lab File: VL036753.D
Acq: 8 Apr 2021 16:46

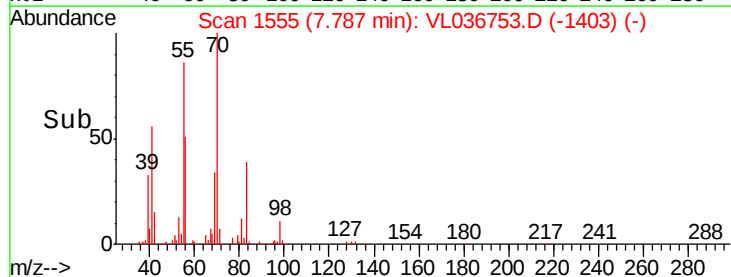
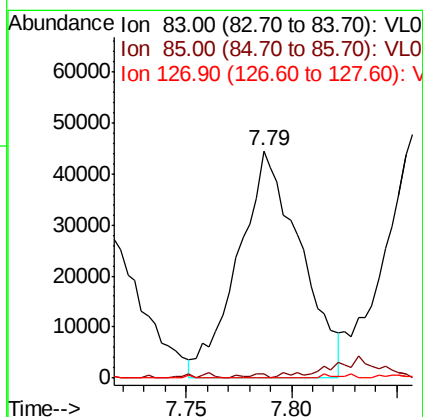
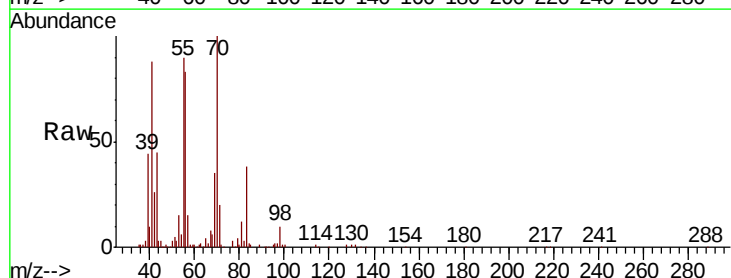
Instrument :
MSVOA_L
ClientSampled :
SG-4DUP

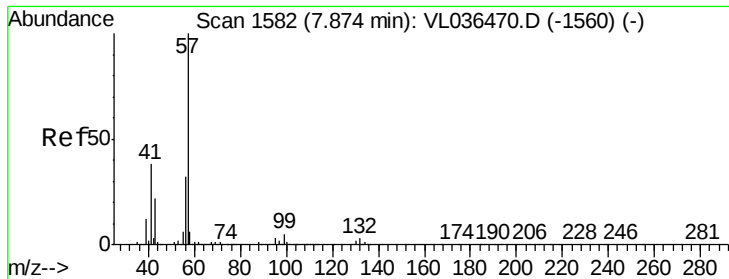
Tot Ion: 42 Resp: 23897
Ion Ratio Lower Upper
42 100
72 1.8 27.6 41.4#
71 0.0 27.0 40.4#



#42
Bromodichloromethane
Concen: 0.334 ppbv
RT: 7.79 min Scan# 1555
Delta R.T. -0.01 min
Lab File: VL036753.D
Acq: 8 Apr 2021 16:46

Tgt Ion: 83 Resp: 91661
Ion Ratio Lower Upper
83 100
85 0.6 51.8 77.6#
127 1.0 5.8 8.8#





#44

2,2,4-Trimethylpentane

Concen: 5.200 ppbv

RT: 7.87 min Scan# 1581

Delta R.T. -0.00 min

Lab File: VL036753.D

Acq: 8 Apr 2021 16:46

Instrument :

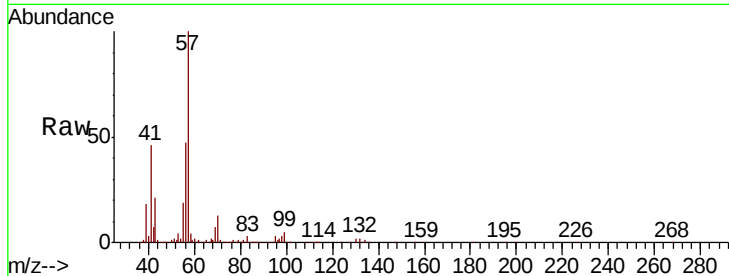
MSVOA_L

ClientSampleId :

SG-4DUP

Tot Ion: 57 Resp: 3140603

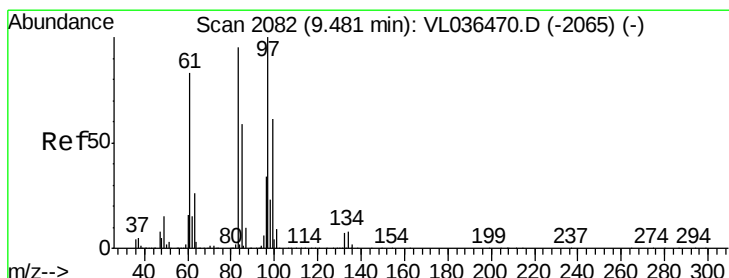
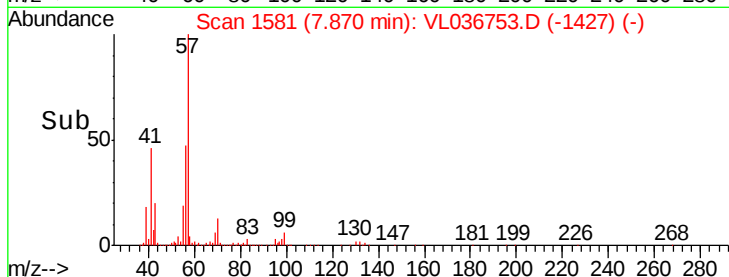
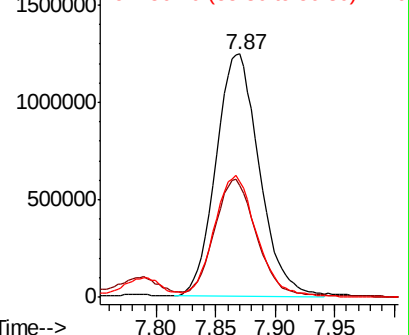
Ion	Ratio	Lower	Upper
57	100		
41	47.9	28.8	43.2#
56	50.2	26.1	39.1#



Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#47

1,1,2-Trichloroethane

Concen: 0.212 ppbv

RT: 9.56 min Scan# 2108

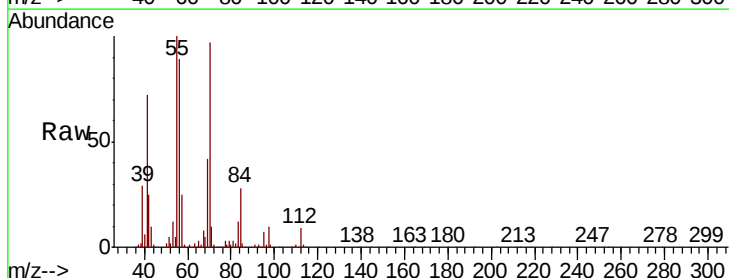
Delta R.T. 0.08 min

Lab File: VL036753.D

Acq: 8 Apr 2021 16:46

Tgt Ion: 97 Resp: 29826

Ion	Ratio	Lower	Upper
97	100		
83	119.3	75.8	113.8#
85	15.6	47.1	70.7#
99	0.0	49.2	73.8#

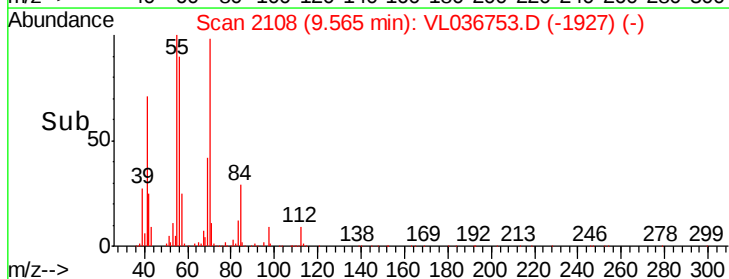
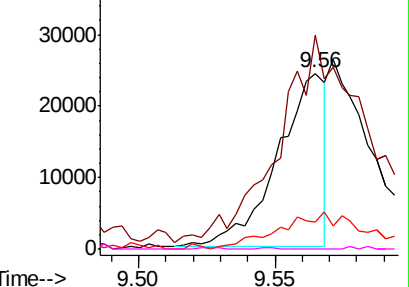


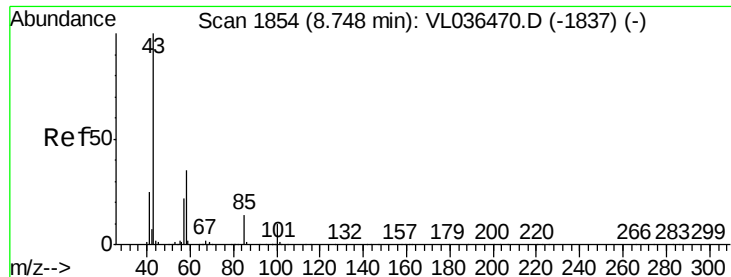
Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

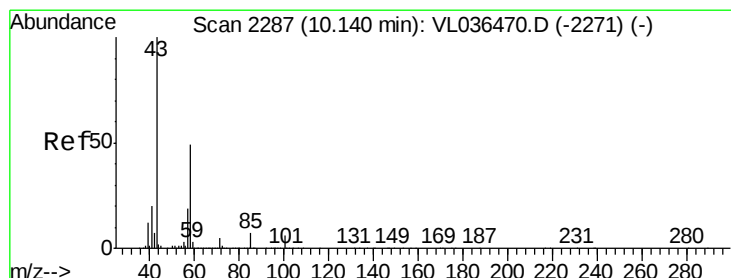
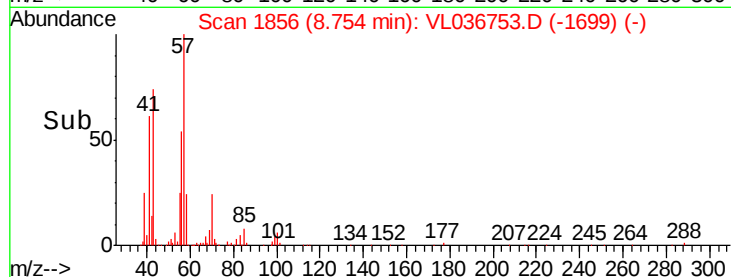
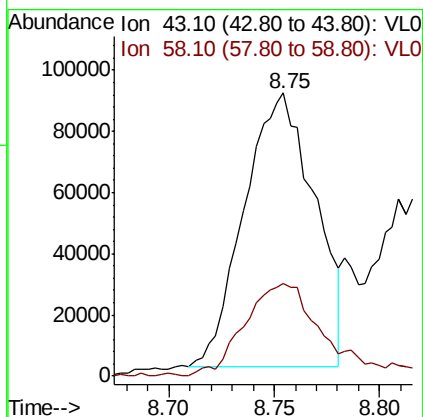
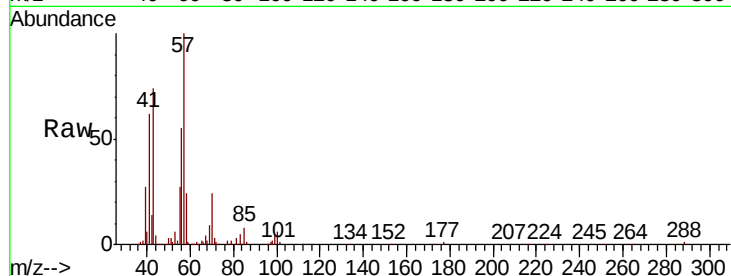




#50
 4-Methyl-2-Pentanone
 Concen: 0.790 ppbv
 RT: 8.75 min Scan# 1856
 Delta R.T. 0.01 min
 Lab File: VL036753.D
 Acq: 8 Apr 2021 16:46

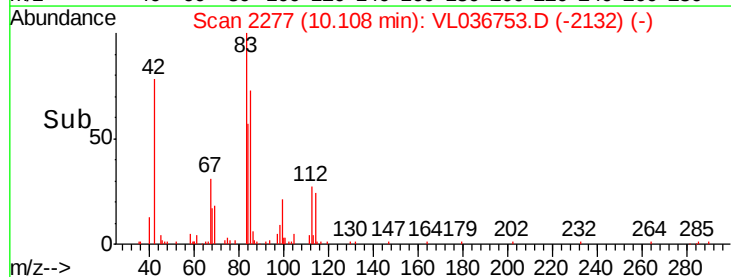
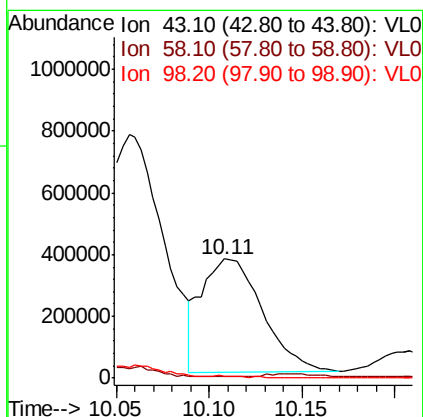
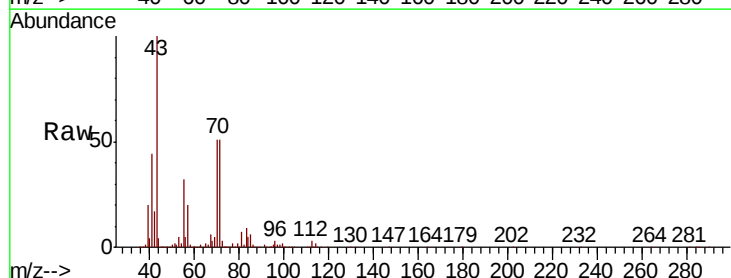
Instrument :
 MSVOA_L
 ClientSampled :
 SG-4DUP

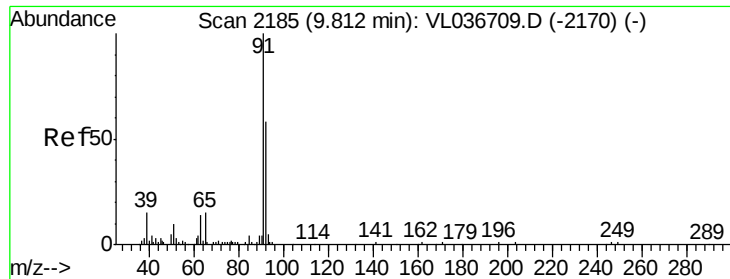
Tot Ion: 43 Resp: 207640
 Ion Ratio Lower Upper
 43 100
 58 39.7 28.2 42.2



#51
 2-Hexanone
 Concen: 6.327 ppbv
 RT: 10.11 min Scan# 2277
 Delta R.T. -0.03 min
 Lab File: VL036753.D
 Acq: 8 Apr 2021 16:46

Tgt Ion: 43 Resp: 839180
 Ion Ratio Lower Upper
 43 100
 58 3.8 37.7 56.5#
 98 0.0 0.2 0.2#





#53

Toluene

Concen: 0.751 ppbv

RT: 9.81 min Scan# 2183

Delta R.T. -0.01 min

Lab File: VL036753.D

Acq: 8 Apr 2021 16:46

Instrument :

MSVOA_L

ClientSampleId :

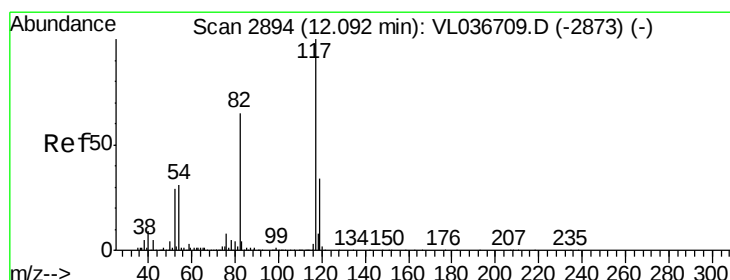
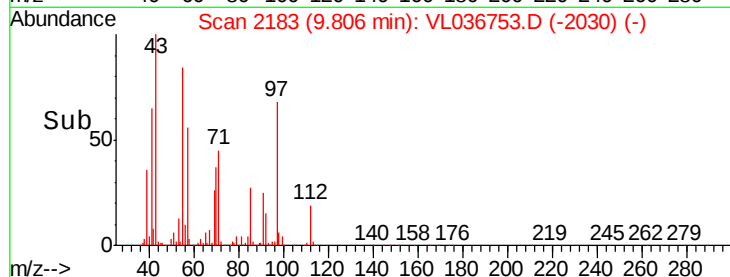
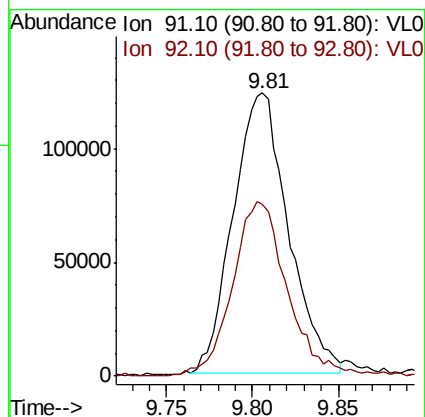
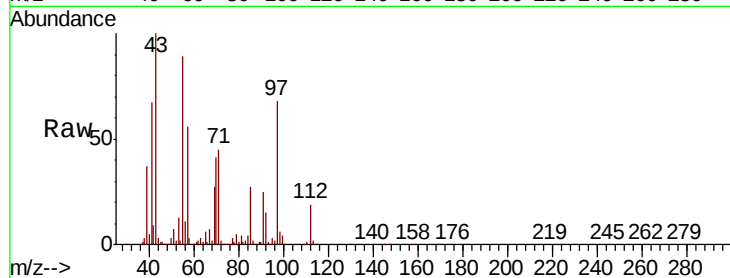
SG-4DUP

Tot Ion: 91 Resp: 274374

Ion Ratio Lower Upper

91 100

92 62.4 48.8 73.2



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2891

Delta R.T. -0.01 min

Lab File: VL036753.D

Acq: 8 Apr 2021 16:46

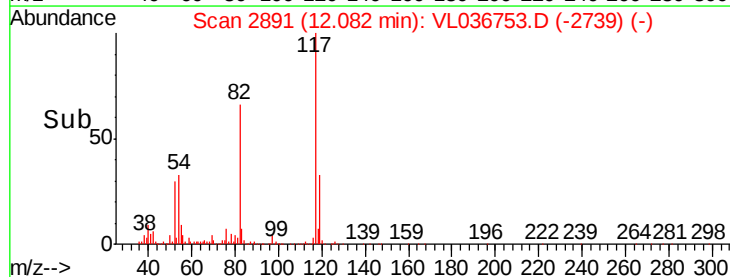
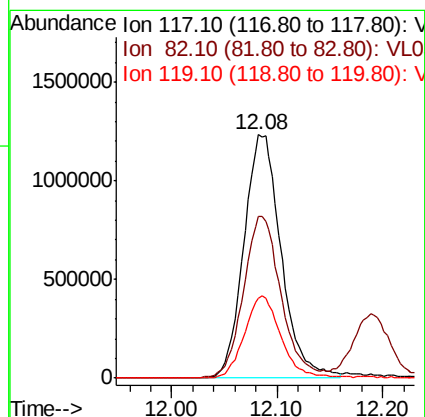
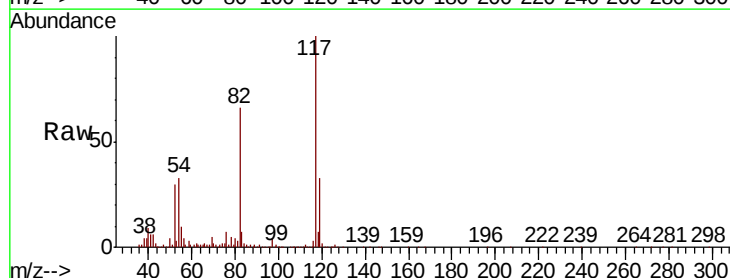
Tgt Ion: 117 Resp: 3033440

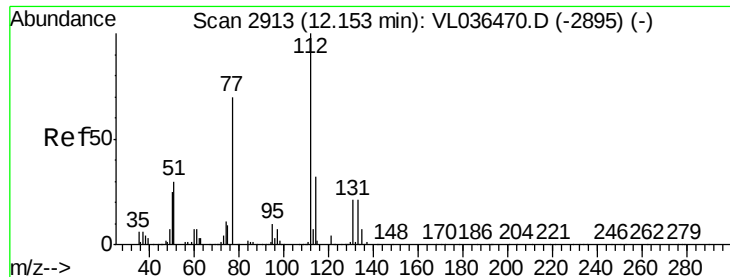
Ion Ratio Lower Upper

117 100

82 66.4 57.4 86.0

119 33.4 47.4 71.0#





#57

Chlorobenzene

Concen: 0.238 ppbv

RT: 12.15 min Scan# 2911

Delta R.T. -0.01 min

Lab File: VL036753.D

Acq: 8 Apr 2021 16:46

Instrument :

MSVOA_L

ClientSampled :

SG-4DUP

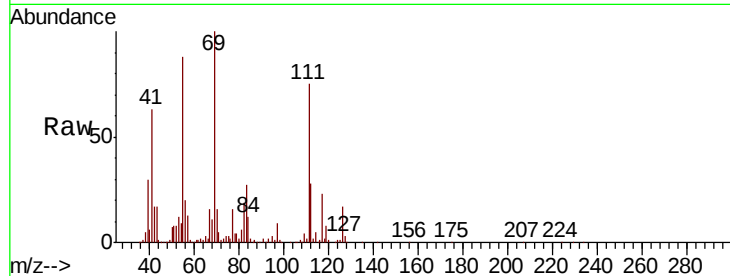
Tot Ion:112 Resp: 61369

Ion Ratio Lower Upper

112 100

77 44.4 56.0 84.0#

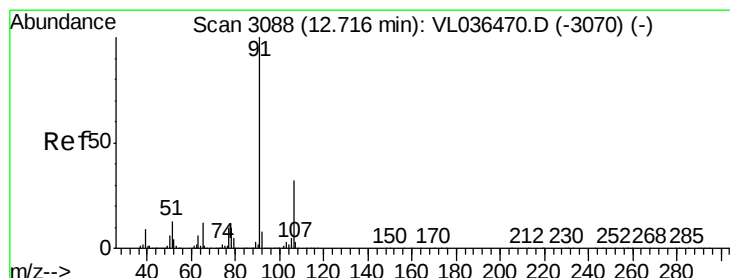
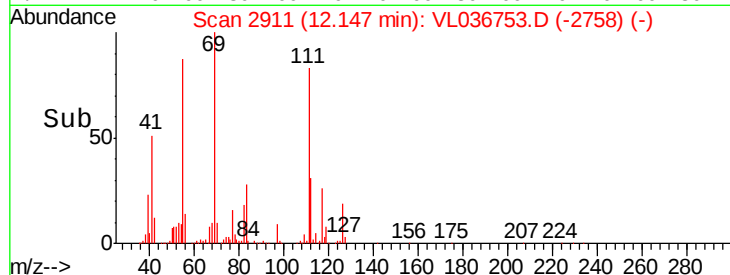
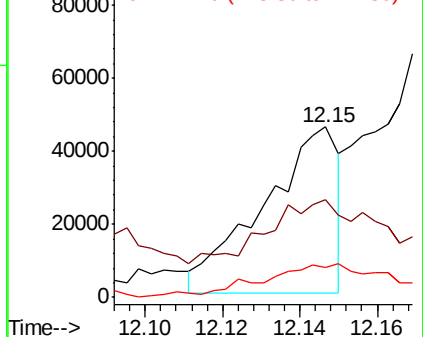
114 17.8 29.0 35.4#



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: 0.752 ppbv

RT: 12.71 min Scan# 3087

Delta R.T. -0.00 min

Lab File: VL036753.D

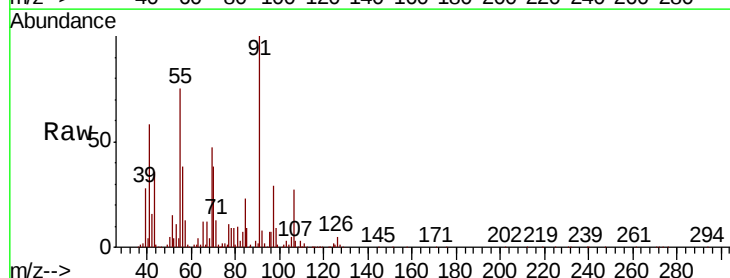
Acq: 8 Apr 2021 16:46

Tgt Ion: 91 Resp: 332019

Ion Ratio Lower Upper

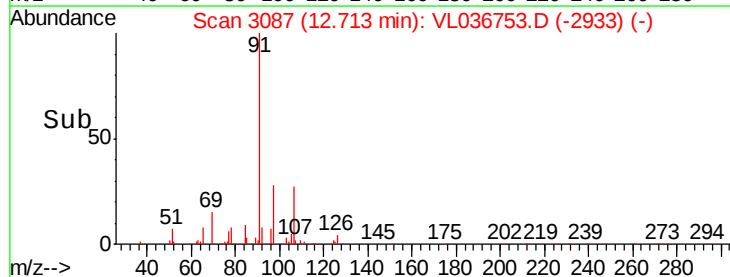
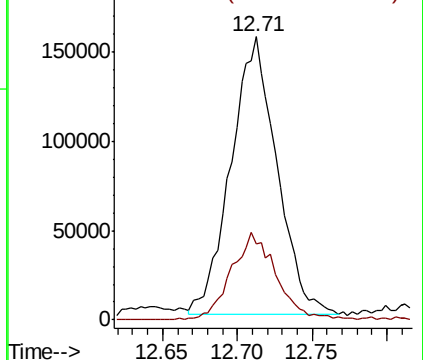
91 100

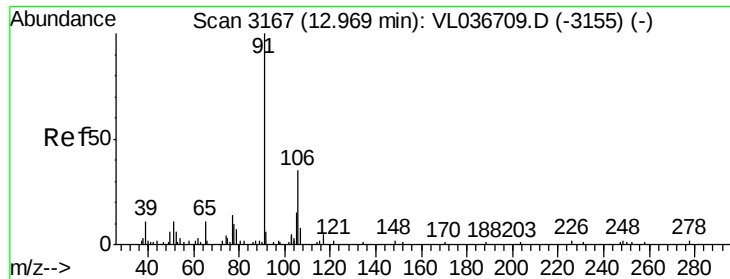
106 26.8 25.3 37.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 1.794 ppbv

RT: 12.97 min Scan# 3166

Delta R.T. -0.04 min

Lab File: VL036753.D

Acq: 8 Apr 2021 16:46

Instrument :

MSVOA_L

ClientSampleId :

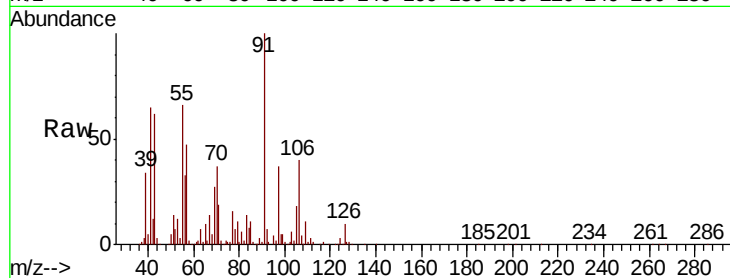
SG-4DUP

Tot Ion: 91 Resp: 690437

Ion Ratio Lower Upper

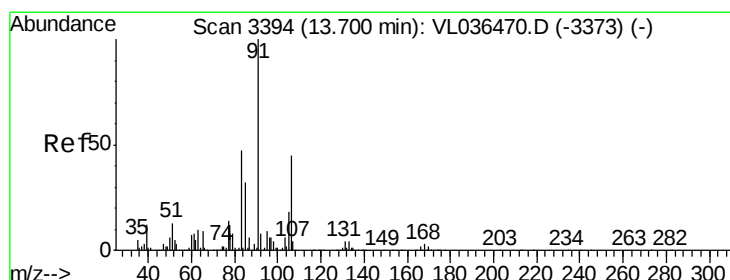
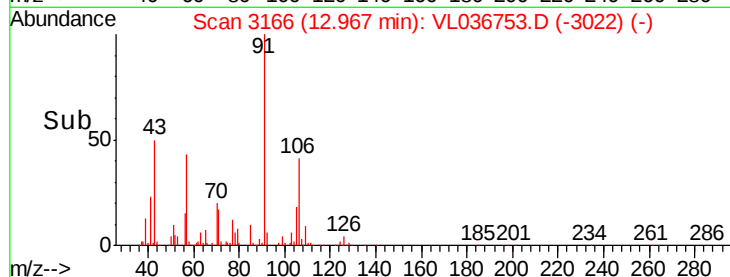
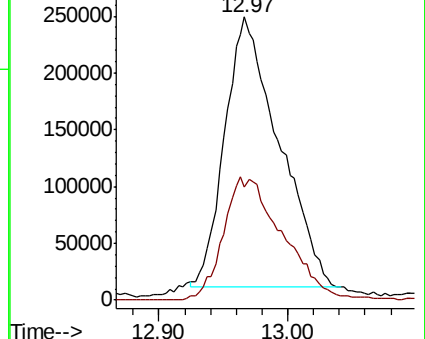
91 100

106 50.5 35.3 52.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 1.891 ppbv

RT: 13.69 min Scan# 3391

Delta R.T. -0.01 min

Lab File: VL036753.D

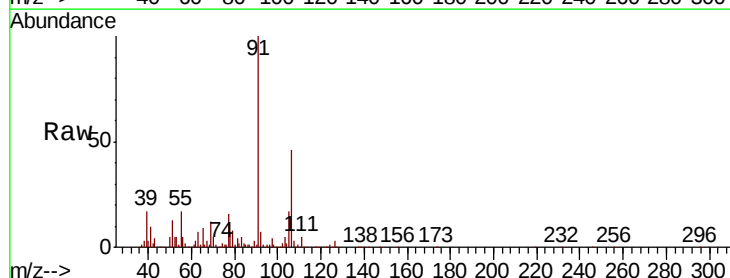
Acq: 8 Apr 2021 16:46

Tgt Ion: 91 Resp: 703880

Ion Ratio Lower Upper

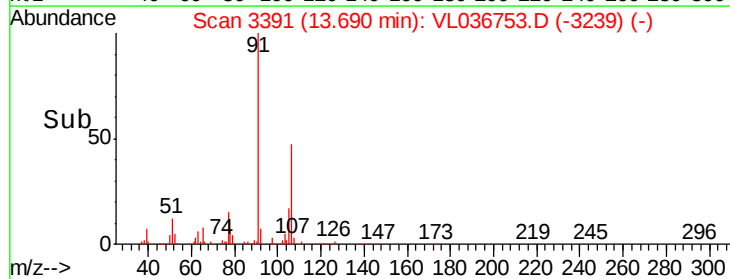
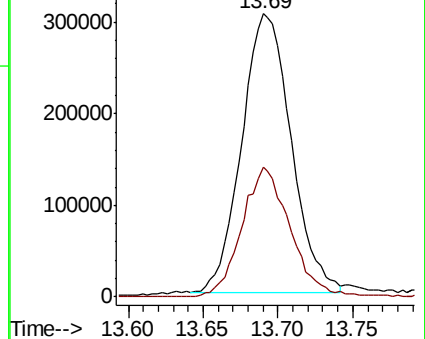
91 100

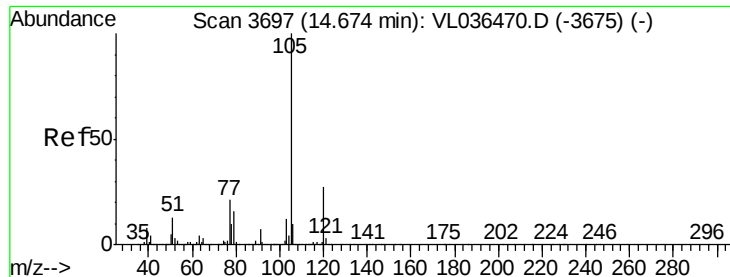
106 45.3 22.3 66.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#62

Isopropylbenzene

Concen: 0.321 ppbv

RT: 14.67 min Scan# 3696

Delta R.T. -0.00 min

Lab File: VL036753.D

Acq: 8 Apr 2021 16:46

Instrument :

MSVOA_L

ClientSampleId :

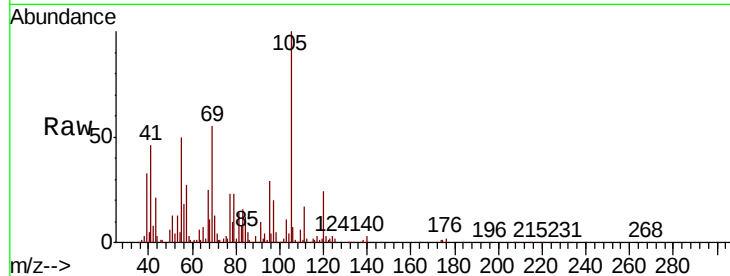
SG-4DUP

Tot Ion:105 Resp: 160807

Ion Ratio Lower Upper

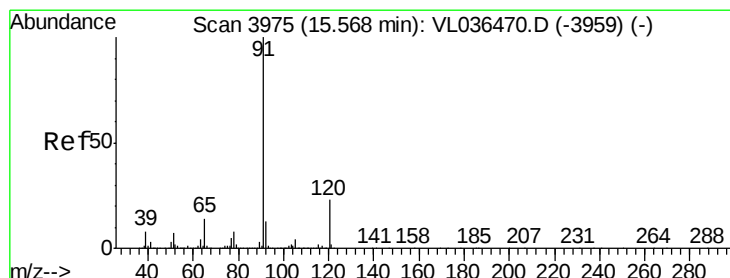
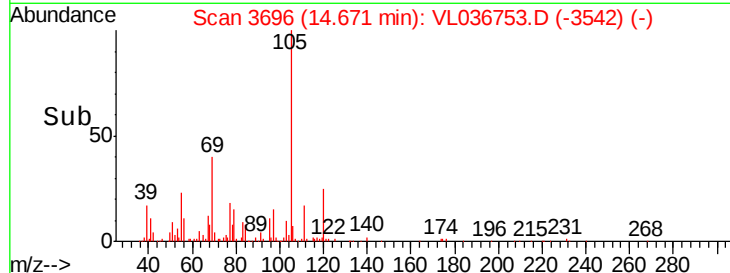
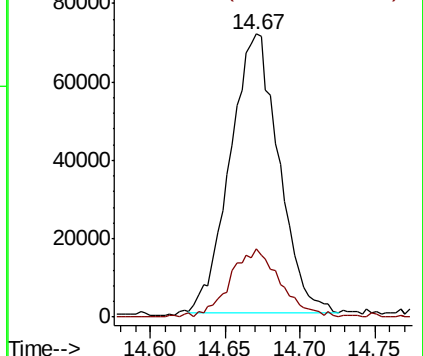
105 100

120 25.5 20.6 31.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#64

n-propylbenzene

Concen: 0.203 ppbv

RT: 15.56 min Scan# 3973

Delta R.T. -0.01 min

Lab File: VL036753.D

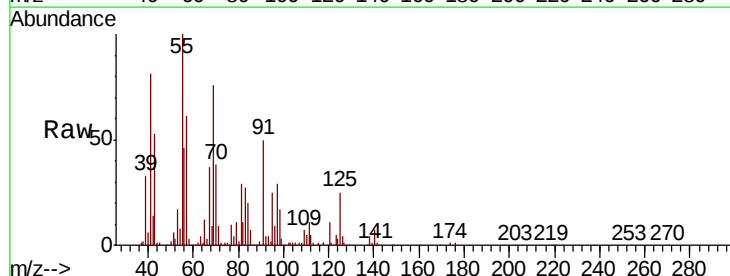
Acq: 8 Apr 2021 16:46

Tgt Ion:120 Resp: 24935

Ion Ratio Lower Upper

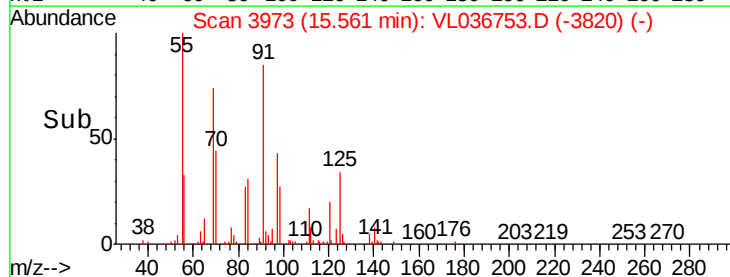
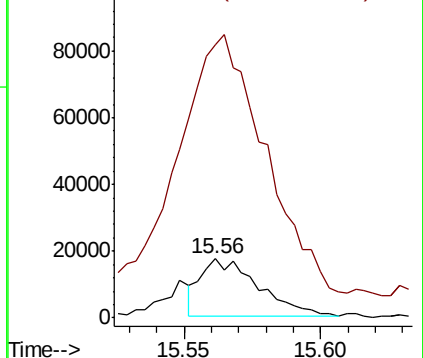
120 100

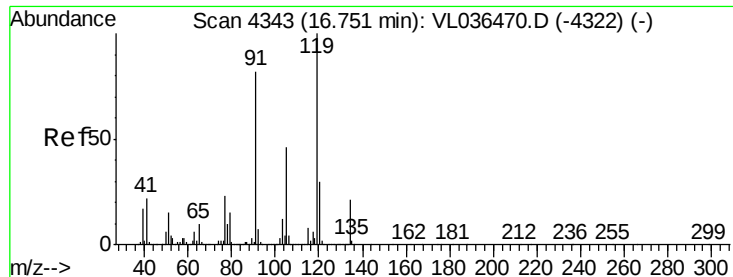
91 842.9 377.4 566.2#



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

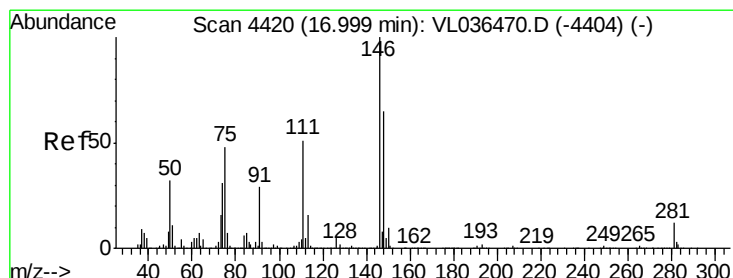
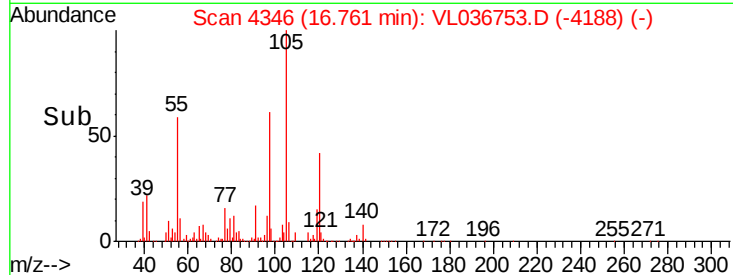
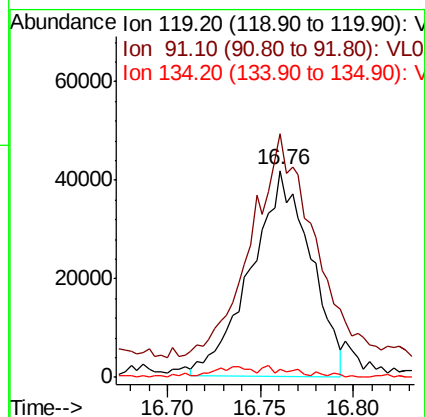
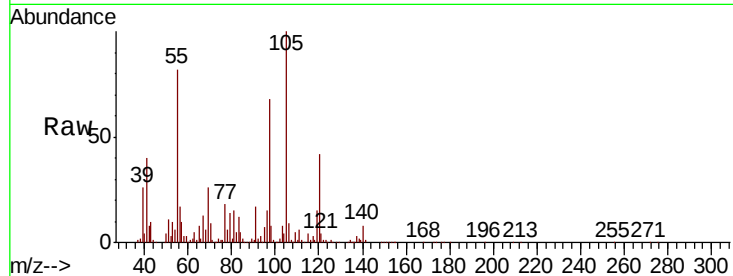




#65
tert-Butylbenzene
Concen: 0.214 ppbv
RT: 16.76 min Scan# 4346
Delta R.T. 0.01 min
Lab File: VL036753.D
Acq: 8 Apr 2021 16:46

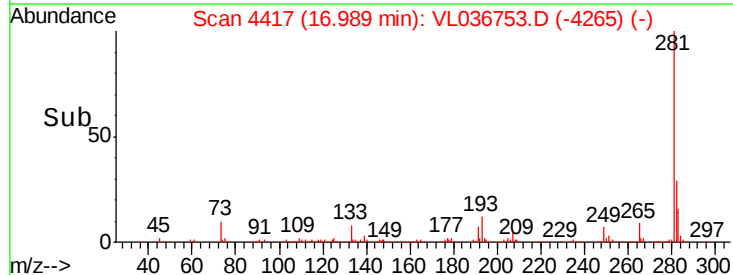
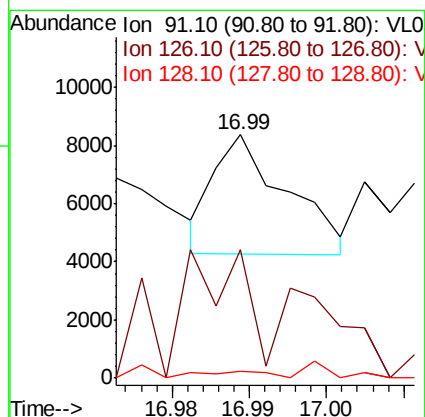
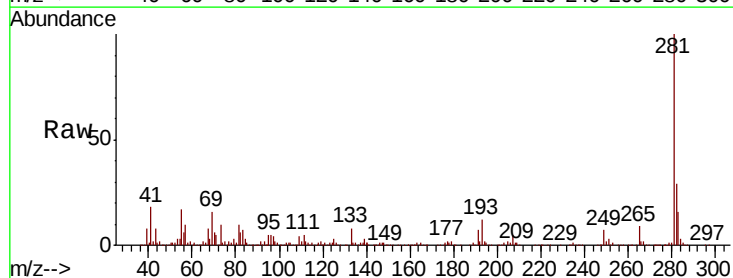
Instrument :
MSVOA_L
ClientSampleId :
SG-4DUP

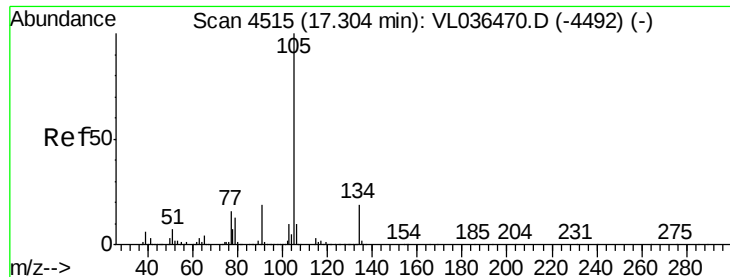
Tot Ion: 119 Resp: 93206
Ion Ratio Lower Upper
119 100
91 118.6 67.5 101.3#
134 7.2 15.8 23.8#



#66
Benzyl Chloride
Concen: 0.056 ppbv
RT: 16.99 min Scan# 4417
Delta R.T. -0.01 min
Lab File: VL036753.D
Acq: 8 Apr 2021 16:46

Tgt Ion: 91 Resp: 2698
Ion Ratio Lower Upper
91 100
126 404.0 13.5 20.3#
128 0.0 4.2 6.4#





#67

sec-Butylbenzene

Concen: 0.211 ppbv

RT: 17.30 min Scan# 4513

Delta R.T. -0.01 min

Lab File: VL036753.D

Acq: 8 Apr 2021 16:46

Instrument :

MSVOA_L

ClientSampleId :

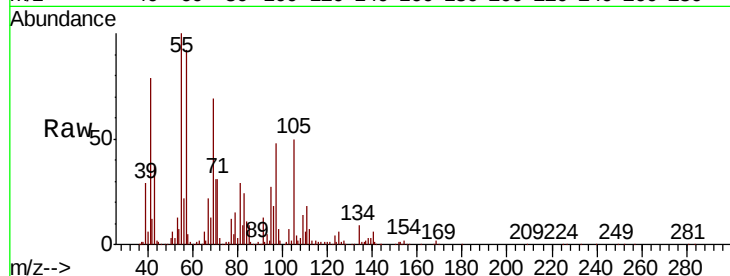
SG-4DUP

Tot Ion:105 Resp: 129670

Ion Ratio Lower Upper

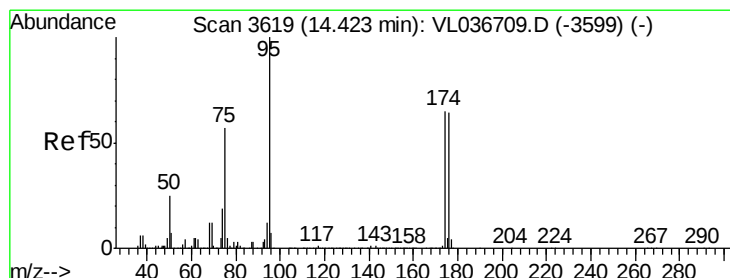
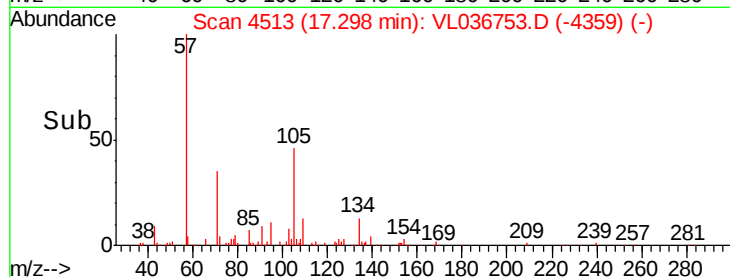
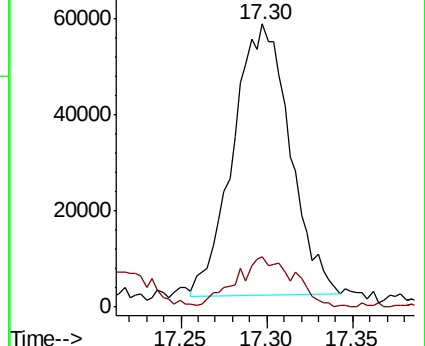
105 100

134 19.1 14.7 22.1



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 4.284 ppbv

RT: 14.41 min Scan# 3616

Delta R.T. -0.01 min

Lab File: VL036753.D

Acq: 8 Apr 2021 16:46

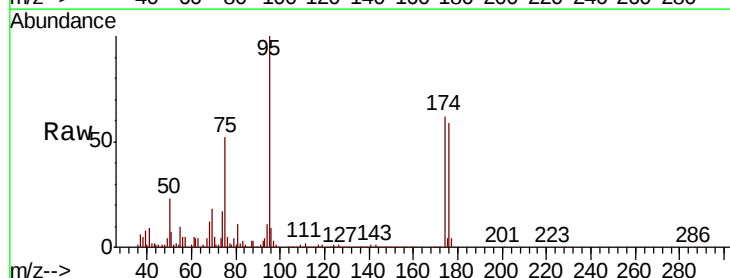
Tgt Ion: 95 Resp: 1035720

Ion Ratio Lower Upper

95 100

174 0.0 51.0 76.6#

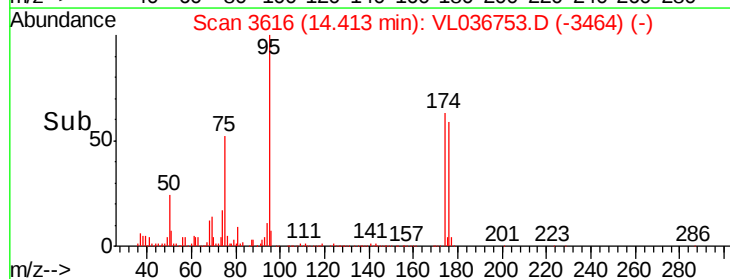
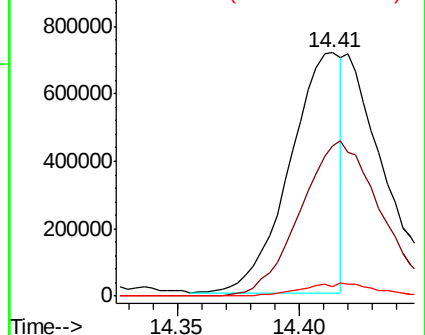
175 0.0 3.9 5.9#

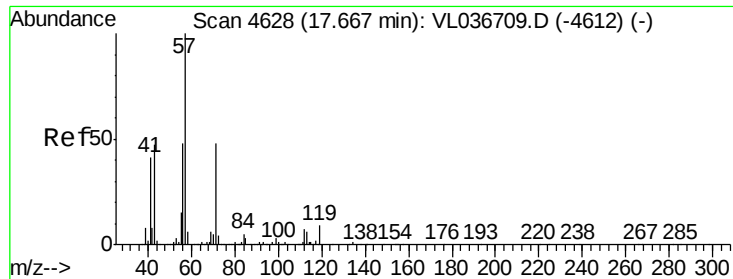


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#69

p-Isopropyltoluene

Concen: 0.243 ppbv

RT: 17.65 min Scan# 4622

Delta R.T. -0.01 min

Lab File: VL036753.D

Acq: 8 Apr 2021 16:46

Instrument :

MSVOA_L

ClientSampleId :

SG-4DUP

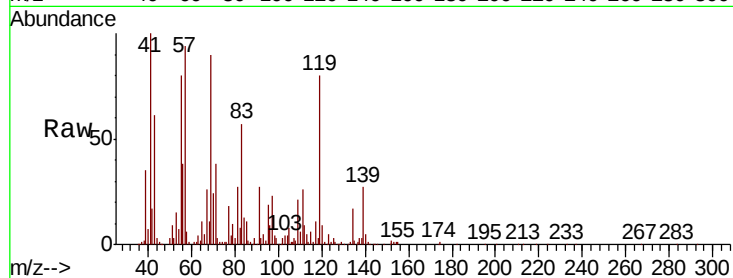
Tot Ion:119 Resp: 116515

Ion Ratio Lower Upper

119 100

134 0.0 20.6 30.8#

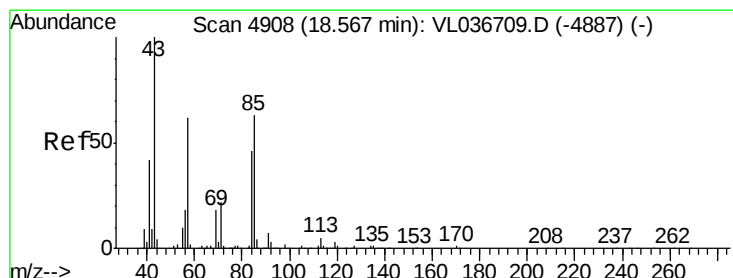
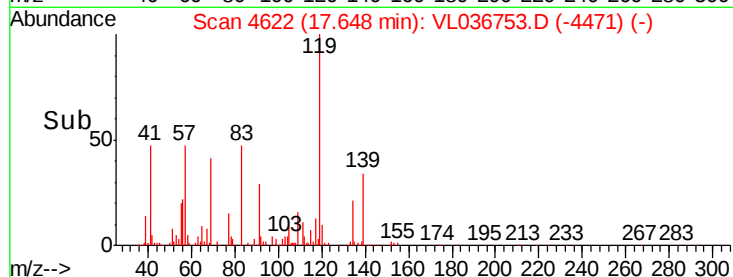
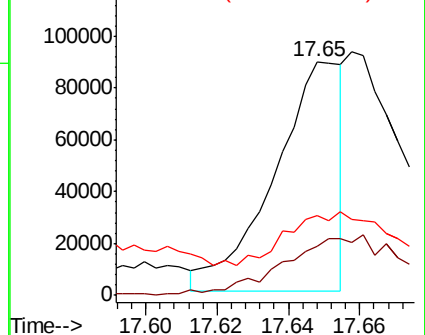
91 0.0 25.0 37.6#



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): V



#70

n-Butylbenzene

Concen: 0.161 ppbv

RT: 18.55 min Scan# 4904

Delta R.T. -0.00 min

Lab File: VL036753.D

Acq: 8 Apr 2021 16:46

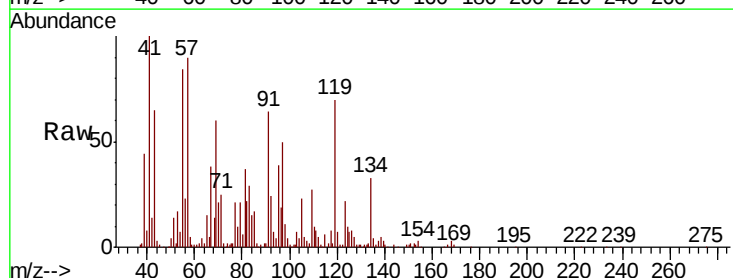
Tgt Ion: 91 Resp: 80091

Ion Ratio Lower Upper

91 100

92 61.2 43.8 65.8

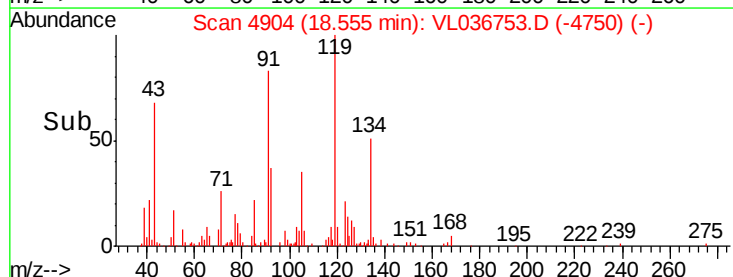
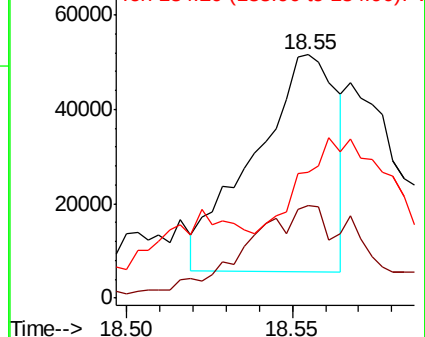
134 0.0 18.0 27.0#

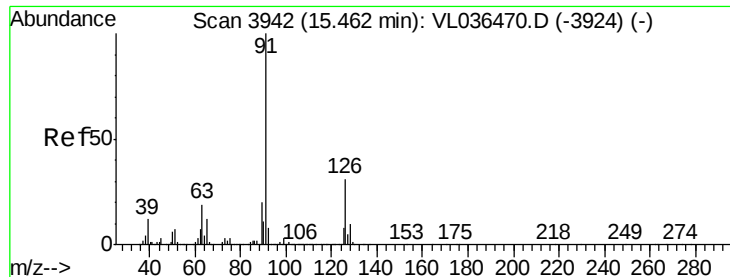


Abundance Ion 91.10 (90.80 to 91.80): V

Ion 92.10 (91.80 to 92.80): V

Ion 134.20 (133.90 to 134.90): V

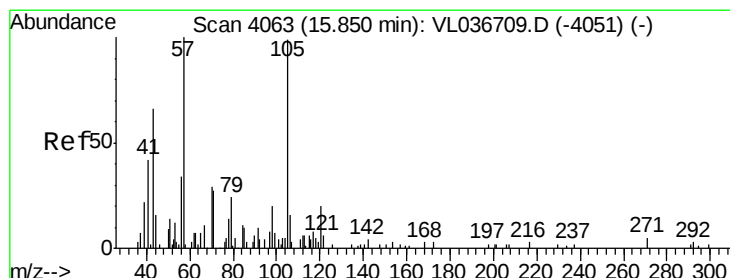
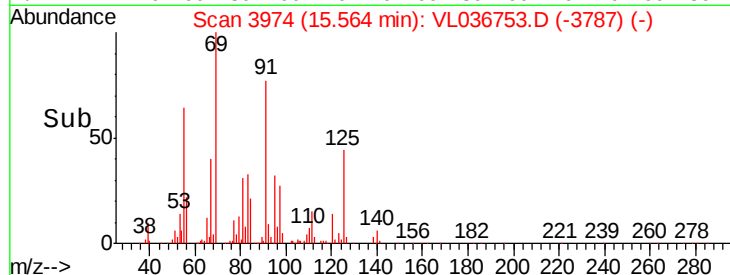
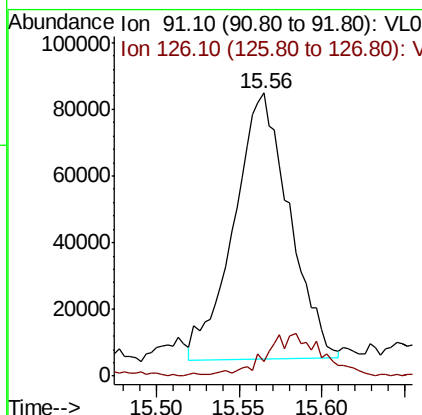
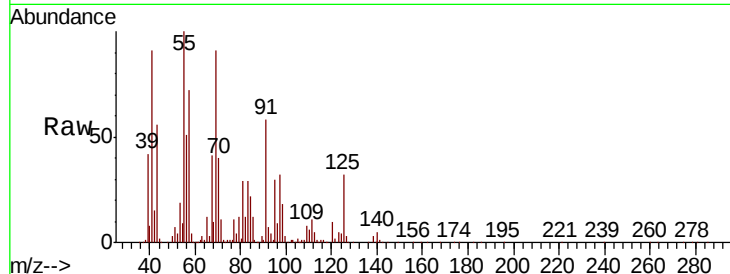




#71
 2-Chlorotoluene
 Concen: 0.492 ppbv
 RT: 15.56 min Scan# 3974
 Delta R.T. 0.10 min
 Lab File: VL036753.D
 Acq: 8 Apr 2021 16:46

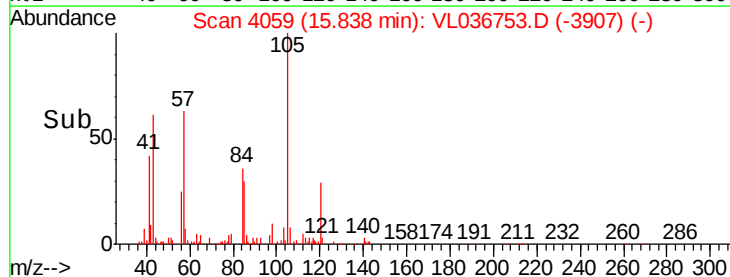
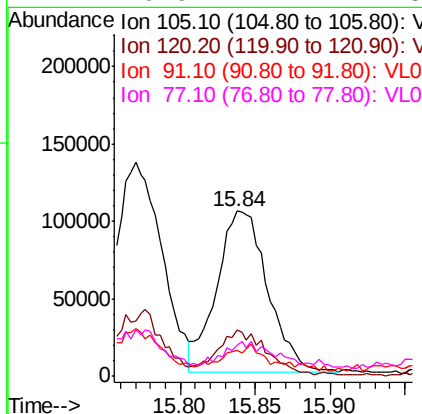
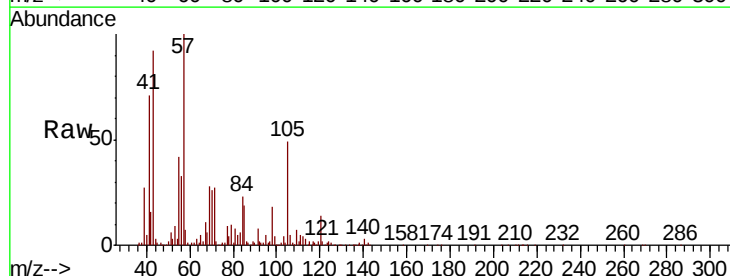
Instrument :
 MSVOA_L
 ClientSampleId :
 SG-4DUP

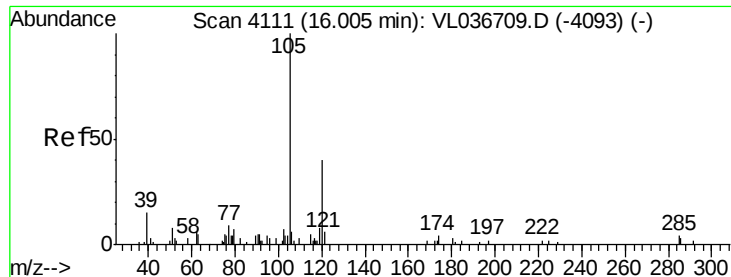
Tot Ion: 91 Resp: 184864
 Ion Ratio Lower Upper
 91 100
 126 15.0 12.1 48.5



#72
 4-Ethyltoluene
 Concen: 0.606 ppbv
 RT: 15.84 min Scan# 4059
 Delta R.T. -0.01 min
 Lab File: VL036753.D
 Acq: 8 Apr 2021 16:46

Tgt Ion:105 Resp: 247300
 Ion Ratio Lower Upper
 105 100
 120 26.4 24.0 36.0
 91 12.9 11.0 16.4
 77 20.9 11.7 17.5#





#73

1,3,5-Trimethylbenzene

Concen: 1.131 ppbv

RT: 16.00 min Scan# 4110

Delta R.T. -0.01 min

Lab File: VL036753.D

Acq: 8 Apr 2021 16:46

Instrument :

MSVOA_L

ClientSampleId :

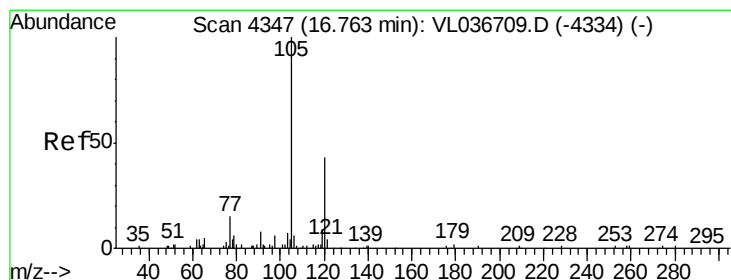
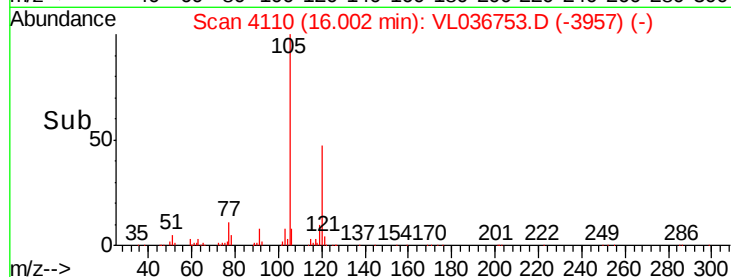
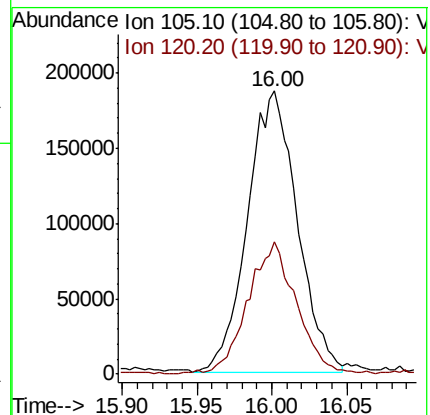
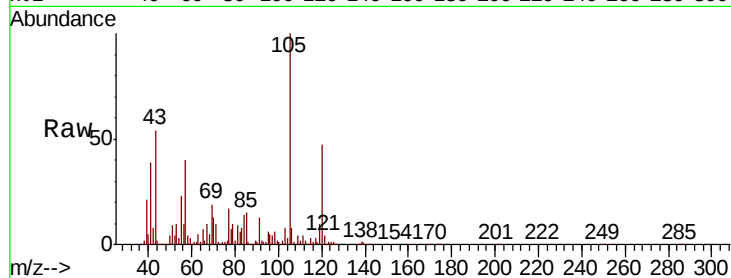
SG-4DUP

Tot Ion:105 Resp: 430645

Ion Ratio Lower Upper

105 100

120 46.5 36.6 54.8



#74

1,2,4-Trimethylbenzene

Concen: 1.720 ppbv

RT: 16.76 min Scan# 4347

Delta R.T. -0.01 min

Lab File: VL036753.D

Acq: 8 Apr 2021 16:46

Tgt Ion:105 Resp: 700738

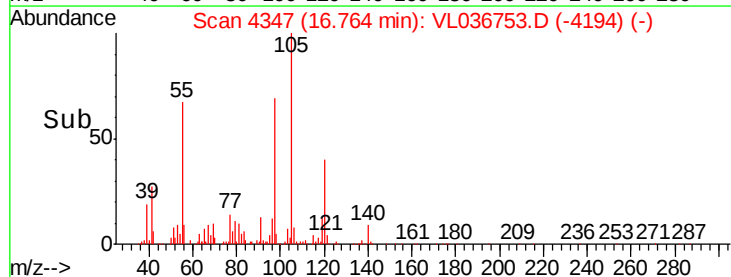
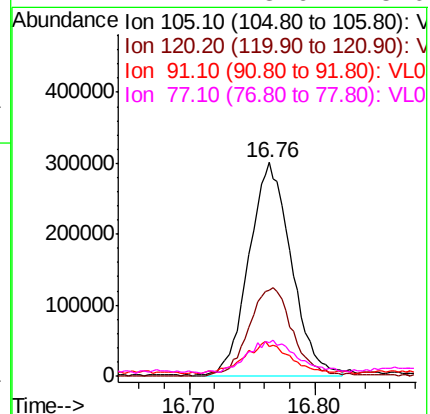
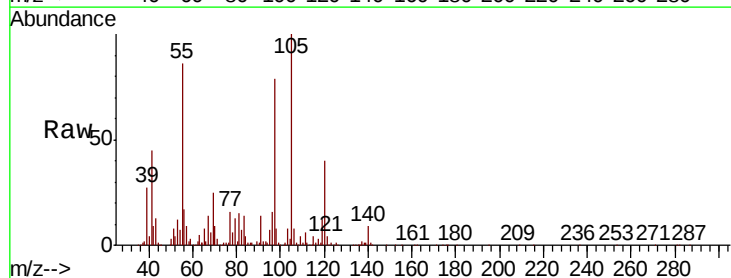
Ion Ratio Lower Upper

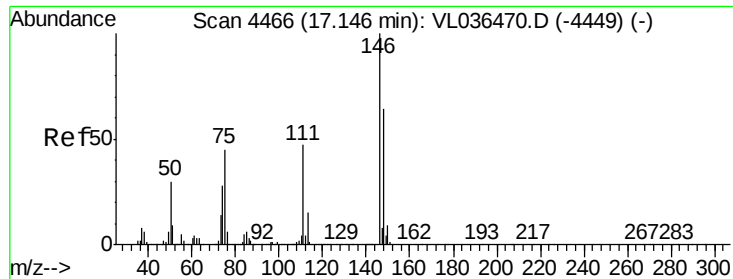
105 100

120 40.4 39.2 58.8

91 11.8 42.6 64.0#

77 14.1 18.6 28.0#





#76

1,4-Dichlorobenzene

Concen: 0.041 ppbv

RT: 17.13 min Scan# 4462

Delta R.T. -0.01 min

Lab File: VL036753.D

Acq: 8 Apr 2021 16:46

Instrument :

MSVOA_L

ClientSampleId :

SG-4DUP

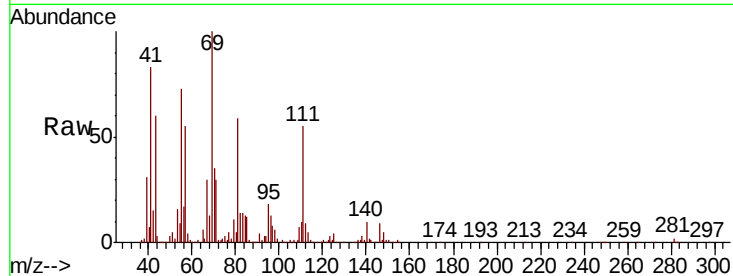
Tot Ion:146 Resp: 9387

Ion Ratio Lower Upper

146 100

111 1610.8 24.3 72.8#

148 0.0 33.0 98.9#

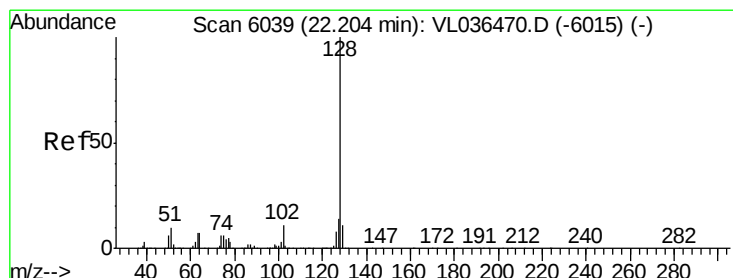
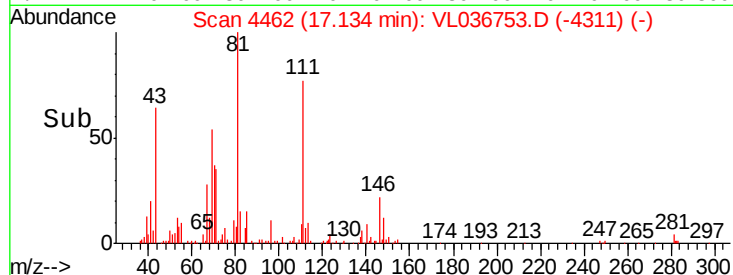
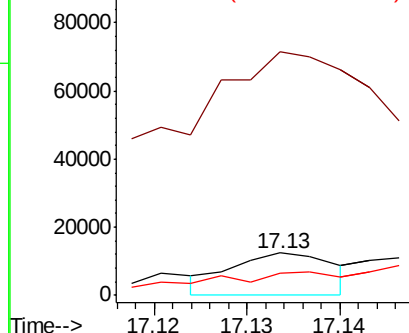


Abundance

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



#79

Naphthalene

Concen: 0.196 ppbv

RT: 22.19 min Scan# 6036

Delta R.T. -0.01 min

Lab File: VL036753.D

Acq: 8 Apr 2021 16:46

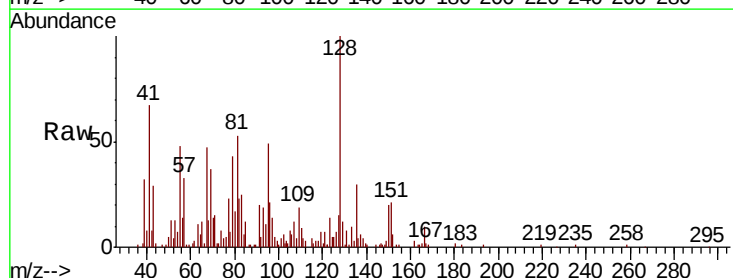
Tgt Ion:128 Resp: 46654

Ion Ratio Lower Upper

128 100

127 13.9 10.9 16.3

129 12.1 9.0 13.4

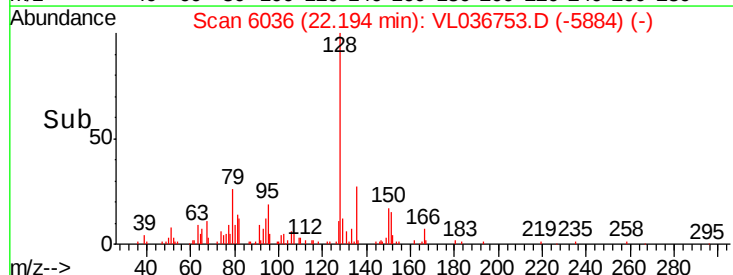
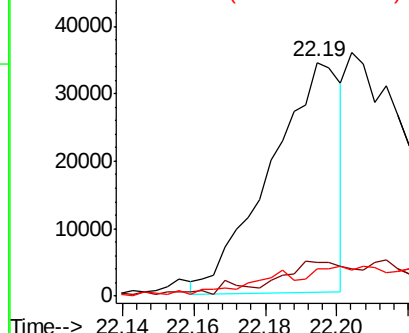


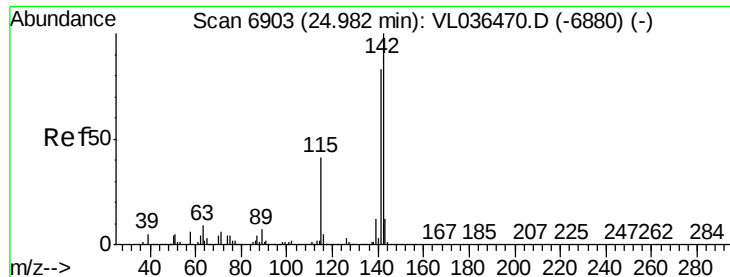
Abundance

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

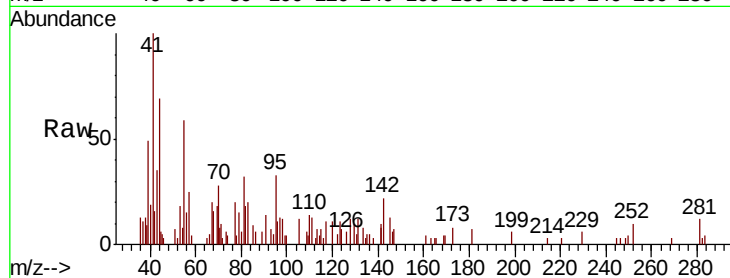




#80
 Naphthalene, 2-methyl-
 Concen: 0.037 ppbv
 RT: 24.96 min Scan# 6896
 Delta R.T. -0.02 min
 Lab File: VL036753.D
 Acq: 8 Apr 2021 16:46

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-4DUP

Tot Ion	Ratio	Lower	Upper
142	100		
141	48.7	67.8	101.8#
115	67.8	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

