

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032521\
 Data File : VL036495.D
 Acq On : 25 Mar 2021 20:44
 Operator :
 Sample : M1748-30
 Misc : 400ml/MSVOA L
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 26 03:52:36 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	5.67	49	1454391	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3309979	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2982748	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2278491	9.58	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.80%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	42374	0.179	ppbv 91
3) Chlorodifluoromethane	2.96	51	384524	1.415	ppbv # 66
4) Chloromethane	3.13	50	36479	0.380	ppbv 88
5) Vinyl Chloride	3.26	62	4236	0.043	ppbv 97
6) Bromomethane	3.47	94	2271	0.042	ppbv # 65
7) Chloroethane	3.56	64	3030	0.089	ppbv # 73
8) Dichlorotetrafluoroethane	3.18	85	4574	0.020	ppbv # 16
9) Propene	3.01	41	19119	0.221	ppbv # 2
10) Heptane	8.12	43	12076	0.055	ppbv # 48
12) 1,1,2-Trichlorotrifluoroet	4.48	101	4159	0.027	ppbv # 1
13) Ethanol	3.61	45	522004	50.602	ppbv 99
15) Acetone	3.85	43	1021637	7.137	ppbv 98
16) 1,3-Butadiene	3.32	39	8230	0.083	ppbv # 70
17) tert-Butyl alcohol	4.30	59	16716	0.134	ppbv # 14
18) 1,1-Dichloroethene	4.29	96	2459	0.036	ppbv # 64
19) Isopropyl Alcohol	3.98	45	168261	2.137	ppbv # 72
20) Methylene Chloride	4.34	84	489862	7.309	ppbv 96
21) Allyl Chloride	4.41	41	2287	0.020	ppbv # 1
23) Vinyl Acetate	5.06	43	95765	0.391	ppbv # 42
24) 1,1-Dichloroethane	5.01	63	4701	0.026	ppbv # 91
25) Ethyl Acetate	5.69	43	437182	1.285	ppbv # 80
26) Hexane	5.69	57	596421	3.777	ppbv # 48
27) Carbon Disulfide	4.55	76	6600	0.042	ppbv # 37
29) Chloroform	5.75	83	21050	0.083	ppbv 86
30) Cyclohexane	7.13	84	3913	0.031	ppbv # 1
31) cis-1,2-Dichloroethene	5.55	61	3724	0.024	ppbv # 77
32) 1,1,1-Trichloroethane	6.51	97	6535	0.026	ppbv # 2
34) 2-Butanone	5.25	43	87580	0.542	ppbv # 86
35) Carbon Tetrachloride	7.02	117	9366	0.037	ppbv # 46
36) Benzene	6.89	78	43313	0.142	ppbv # 81
37) 1,2-Dichloroethane	6.30	62	9940	0.055	ppbv # 82
38) Trichloroethene	7.84	130	123360	1.038	ppbv 97
39) 1,2-Dichloropropane	7.17	63	915137	7.390	ppbv # 23
41) Tetrahydrofuran	5.69	42	247103	3.317	ppbv # 54
42) Bromodichloromethane	7.79	83	6534	0.027	ppbv # 43
43) Methyl Methacrylate	8.02	69	2471	0.024	ppbv # 1
44) 2,2,4-Trimethylpentane	7.87	57	36697	0.068	ppbv # 43
47) 1,1,2-Trichloroethane	9.47	97	4527	0.036	ppbv # 56
50) 4-Methyl-2-Pentanone	8.75	43	4690	0.020	ppbv # 40
52) Tetrachloroethene	11.23	164	558400	4.967	ppbv 97
53) Toluene	9.81	91	34236	0.105	ppbv # 20

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 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

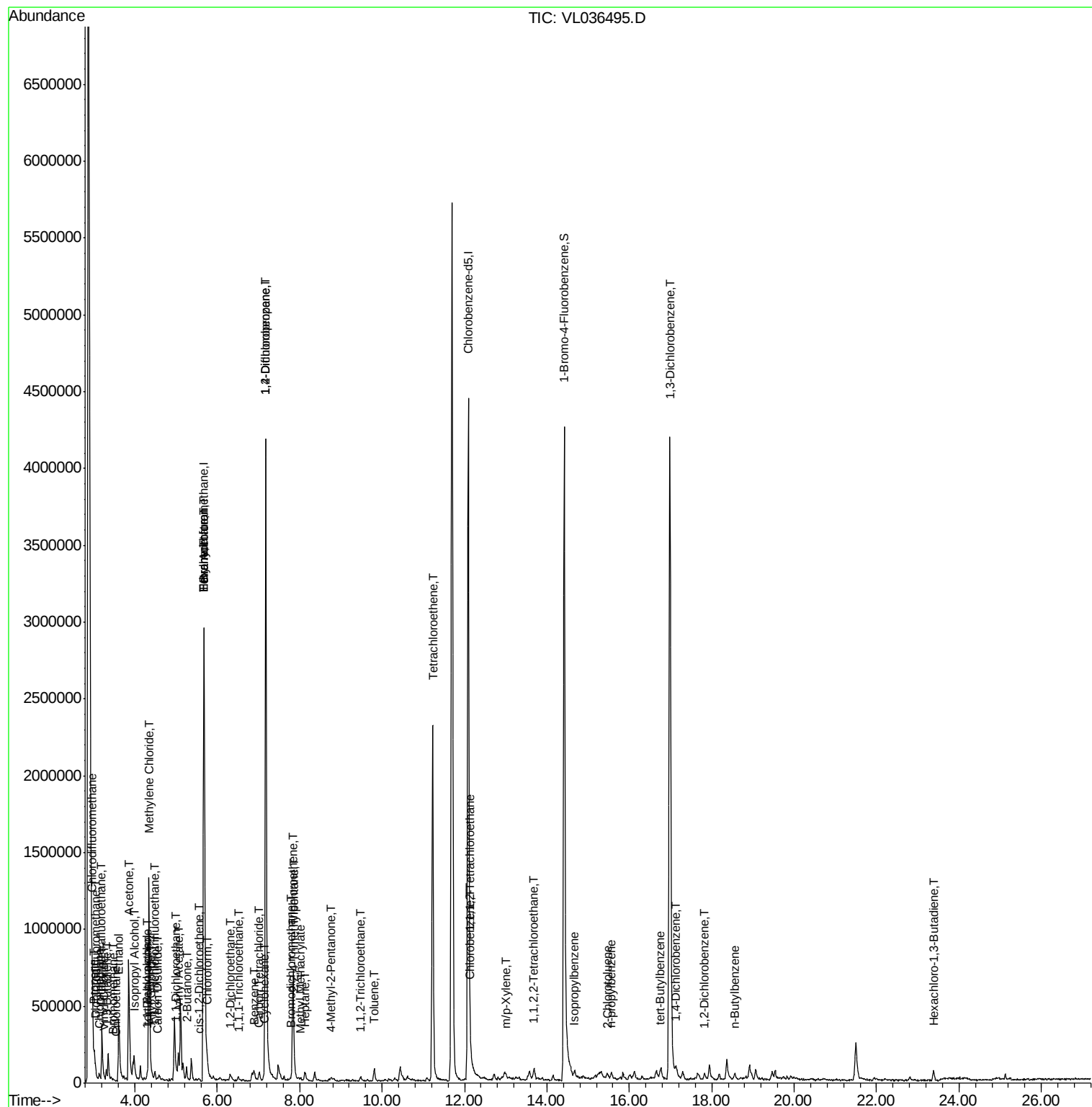
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
56) 1,1,1,2-Tetrachloroethane	12.13	131	3100	0.023	ppbv #	9
57) Chlorobenzene	12.15	112	12687	0.050	ppbv #	65
59) m/p-Xylene	13.00	91	20519	0.054	ppbv #	1
62) Isopropylbenzene	14.67	105	21891	0.044	ppbv #	70
63) 1,1,2,2-Tetrachloroethane	13.68	83	13091	0.047	ppbv #	55
64) n-propylbenzene	15.56	120	4211	0.035	ppbv #	1
65) tert-Butylbenzene	16.74	119	12001	0.028	ppbv #	12
70) n-Butylbenzene	18.56	91	10194	0.021	ppbv #	1
71) 2-Chlorotoluene	15.46	91	8305	0.022	ppbv #	44
75) 1,3-Dichlorobenzene	17.00	146	5369	0.024	ppbv #	22
76) 1,4-Dichlorobenzene	17.14	146	10688	0.048	ppbv #	28
77) 1,2-Dichlorobenzene	17.82	146	4329	0.020	ppbv #	1
78) Hexachloro-1,3-Butadiene	23.38	225	3875	0.020	ppbv #	18

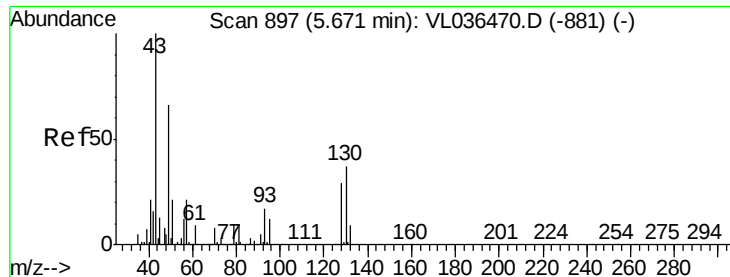
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 25 Mar 2021 20:44

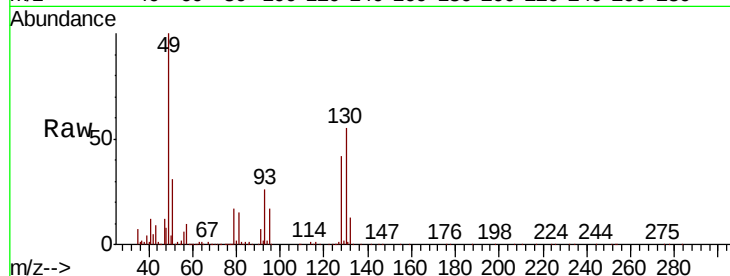
Tot Ion: 49 Resp: 1454391

Ion Ratio Lower Upper

49 100

128 44.5 23.5 70.6

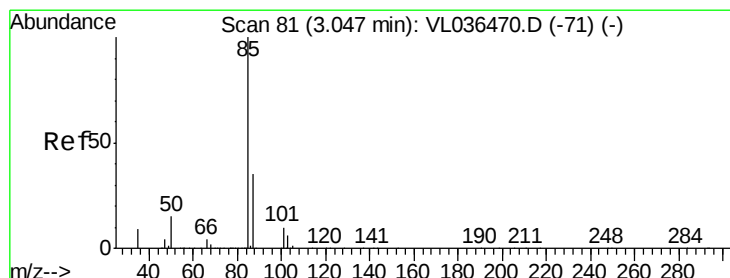
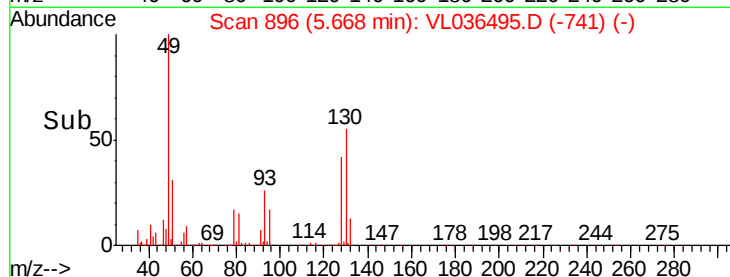
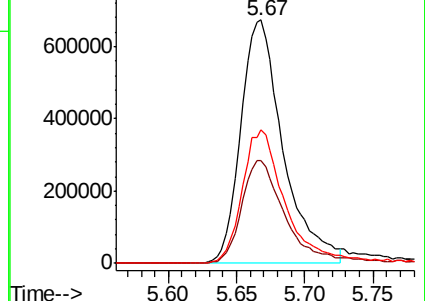
130 57.3 29.1 87.4



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.179 ppbv

RT: 3.05 min Scan# 81

Delta R.T. 0.00 min

Lab File: VL036495.D

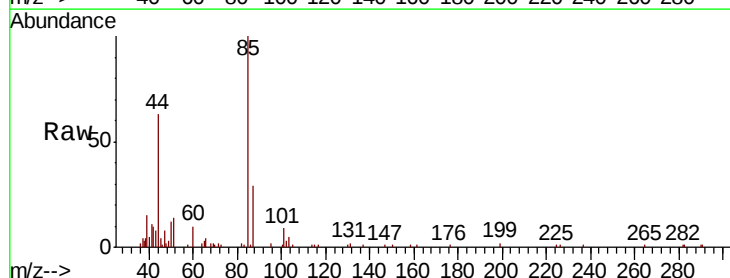
Acq: 25 Mar 2021 20:44

Tgt Ion: 85 Resp: 42374

Ion Ratio Lower Upper

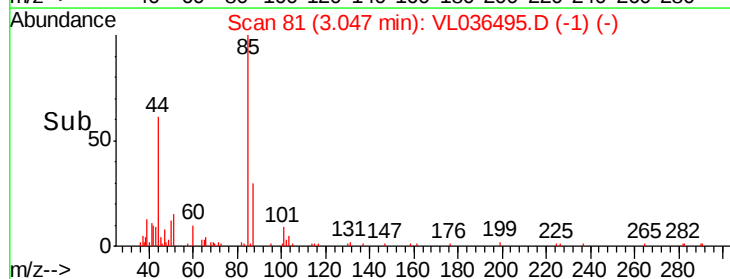
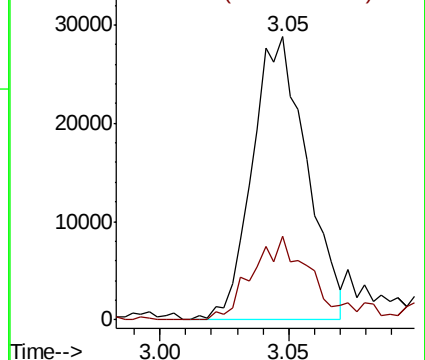
85 100

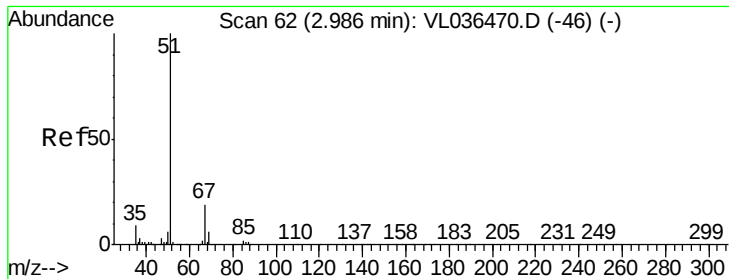
87 29.5 27.8 41.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.415 ppbv

RT: 2.96 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

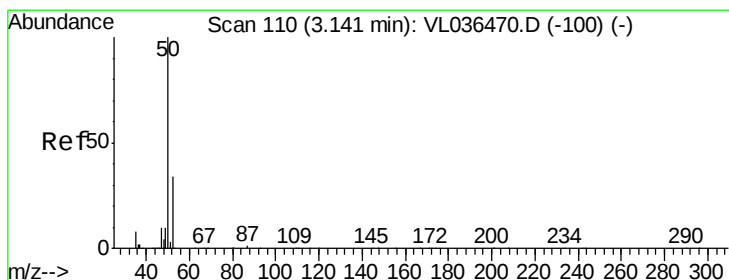
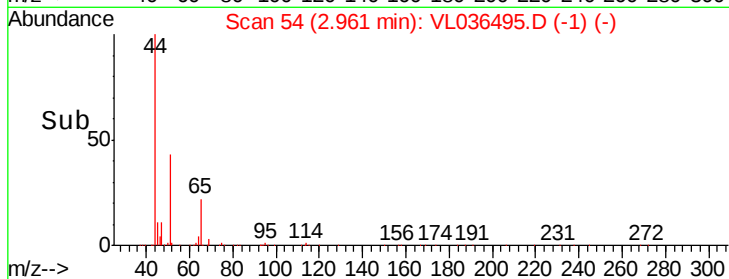
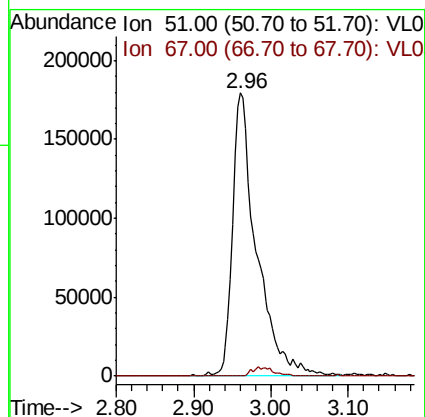
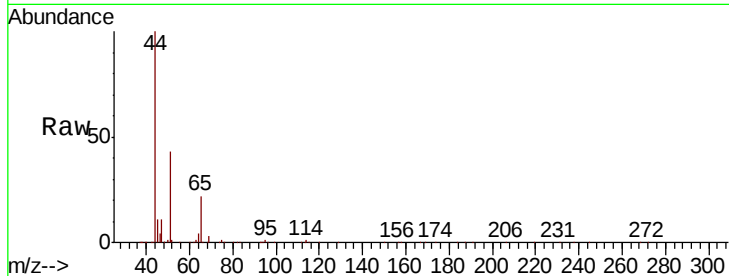
Acq: 25 Mar 2021 20:44

Tot Ion: 51 Resp: 384524

Ion Ratio Lower Upper

51 100

67 3.2 14.7 22.1#



#4

Chloromethane

Concen: 0.380 ppbv

RT: 3.13 min Scan# 108

Delta R.T. -0.01 min

Lab File: VL036495.D

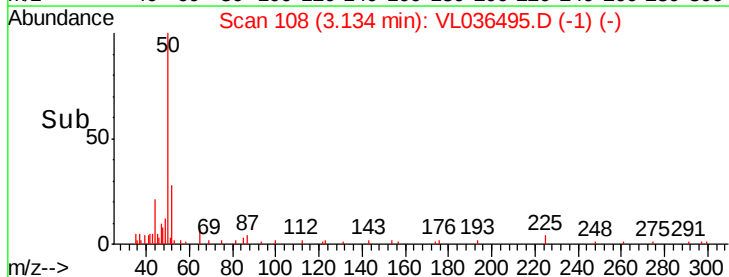
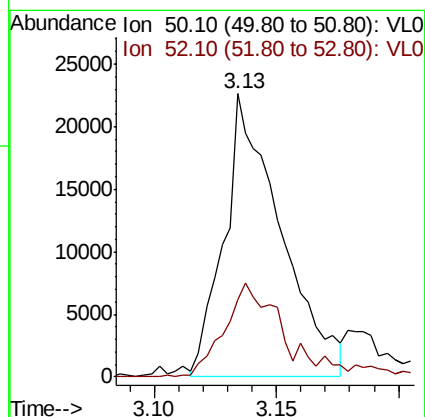
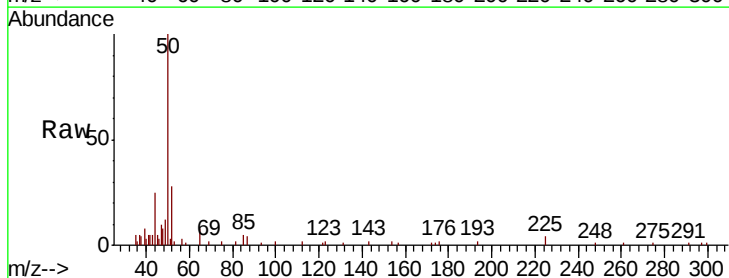
Acq: 25 Mar 2021 20:44

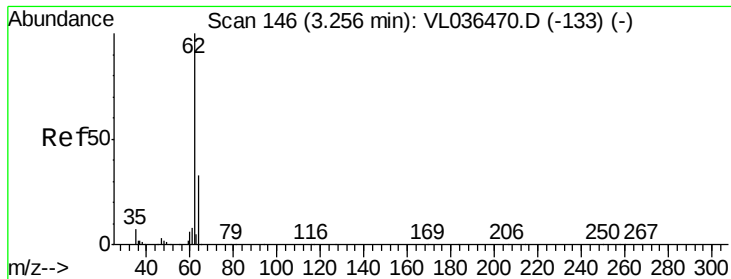
Tgt Ion: 50 Resp: 36479

Ion Ratio Lower Upper

50 100

52 27.2 27.0 40.6





#5

Vinyl Chloride

Concen: 0.043 ppbv

RT: 3.26 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

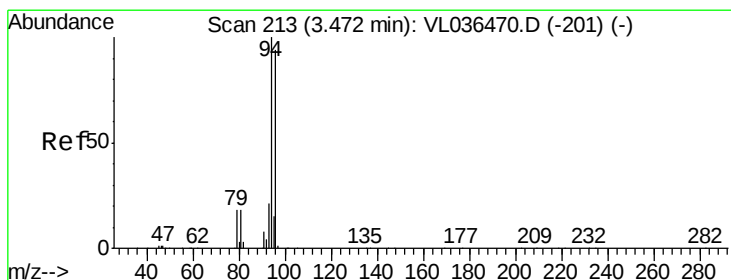
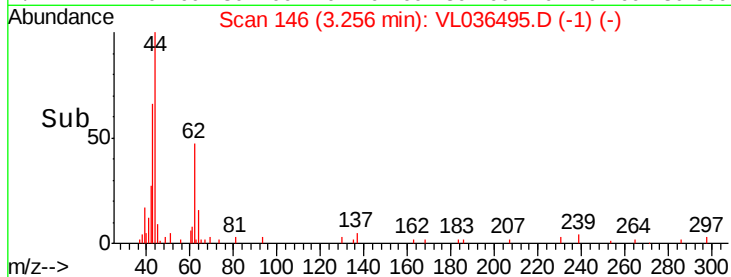
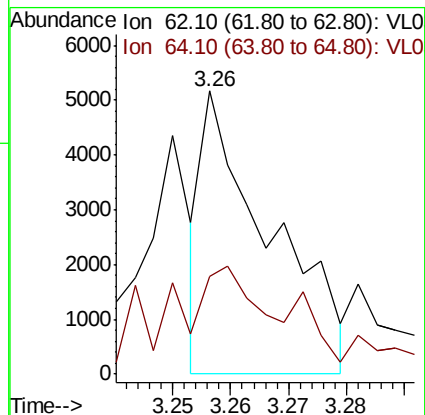
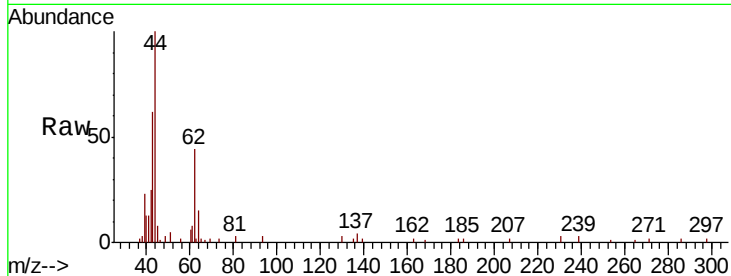
Acq: 25 Mar 2021 20:44

Tot Ion: 62 Resp: 4236

Ion Ratio Lower Upper

62 100

64 34.9 26.4 39.6



#6

Bromomethane

Concen: 0.042 ppbv

RT: 3.47 min Scan# 212

Delta R.T. -0.00 min

Lab File: VL036495.D

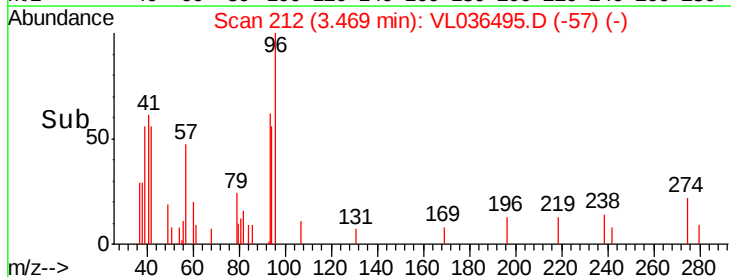
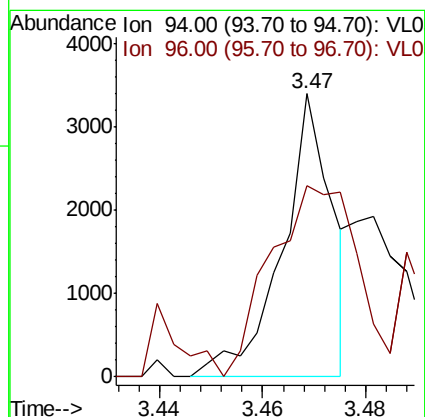
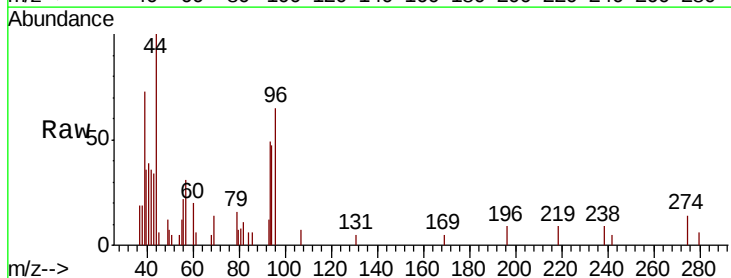
Acq: 25 Mar 2021 20:44

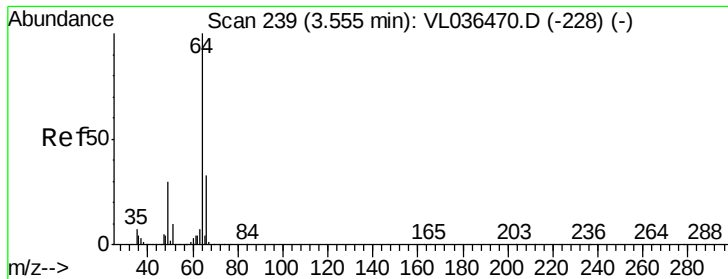
Tgt Ion: 94 Resp: 2271

Ion Ratio Lower Upper

94 100

96 60.2 74.9 112.3#





#7

Chloroethane

Concen: 0.089 ppbv

RT: 3.56 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

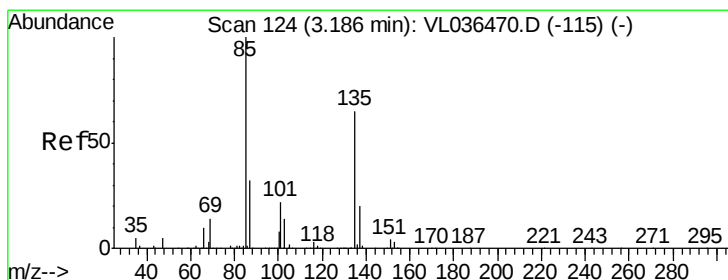
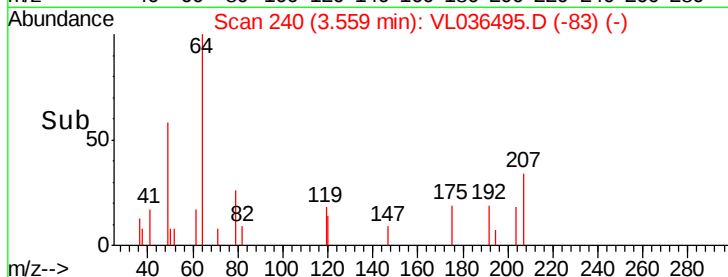
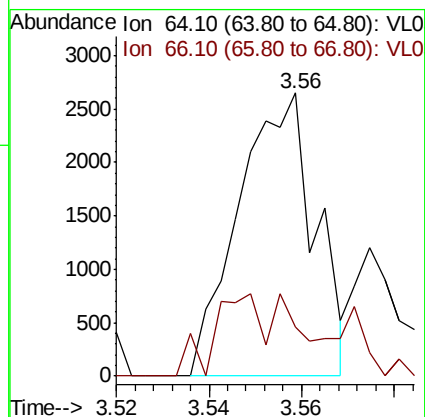
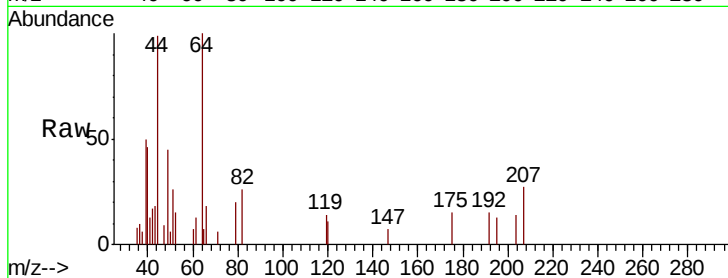
Acq: 25 Mar 2021 20:44

Tot Ion: 64 Resp: 3030

Ion Ratio Lower Upper

64 100

66 17.6 26.2 39.2#



#8

Dichlorotetrafluoroethane

Concen: 0.020 ppbv

RT: 3.18 min Scan# 123

Delta R.T. -0.00 min

Lab File: VL036495.D

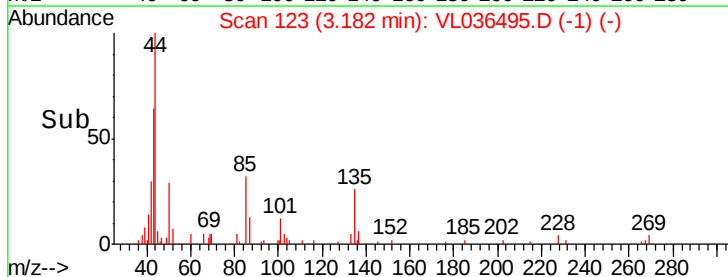
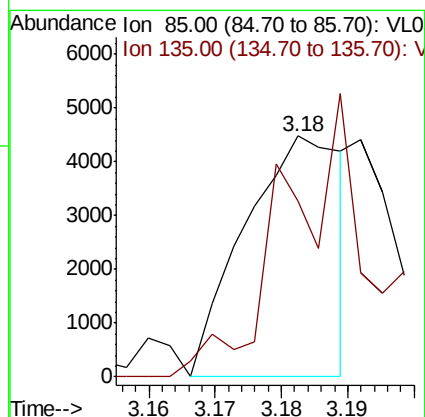
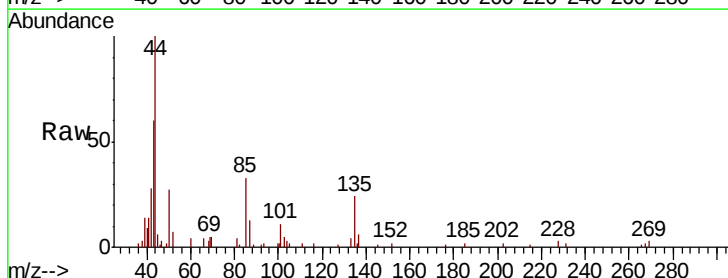
Acq: 25 Mar 2021 20:44

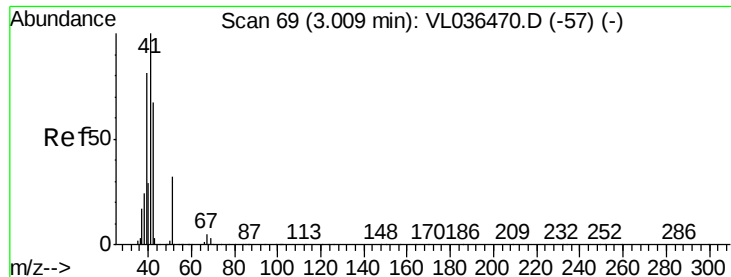
Tgt Ion: 85 Resp: 4574

Ion Ratio Lower Upper

85 100

135 0.0 54.3 81.5#





#9

Propene

Concen: 0.221 ppbv

RT: 3.01 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

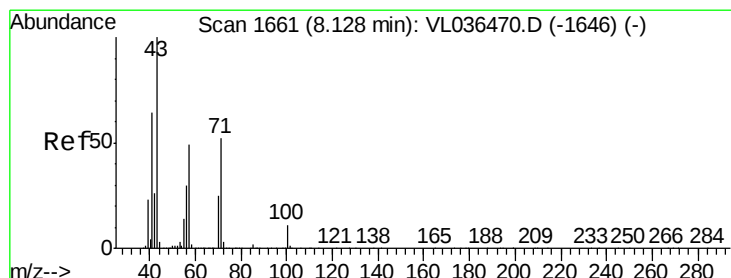
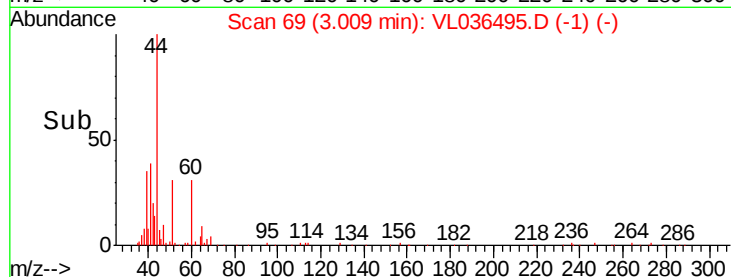
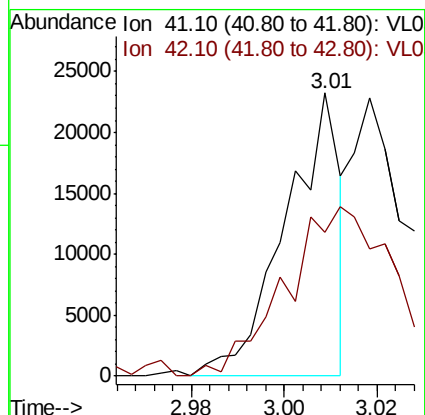
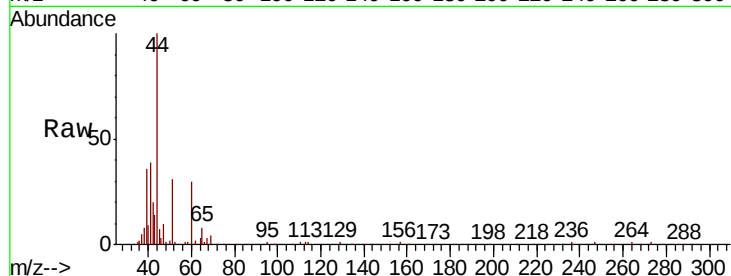
Acq: 25 Mar 2021 20:44

Tot Ion: 41 Resp: 19119

Ion Ratio Lower Upper

41 100

42 152.1 57.0 85.4#



#10

Heptane

Concen: 0.055 ppbv

RT: 8.12 min Scan# 1660

Delta R.T. -0.00 min

Lab File: VL036495.D

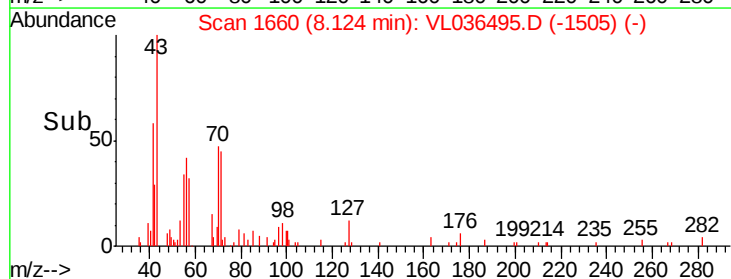
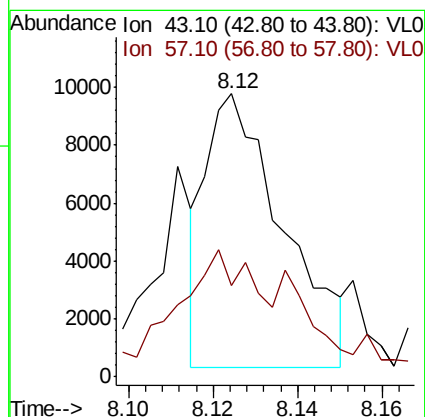
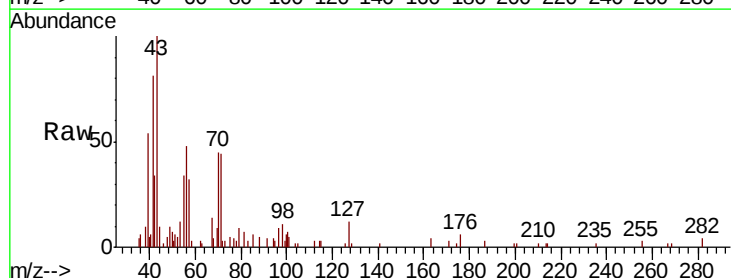
Acq: 25 Mar 2021 20:44

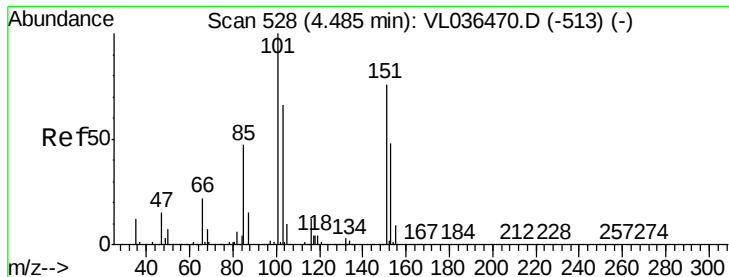
Tgt Ion: 43 Resp: 12076

Ion Ratio Lower Upper

43 100

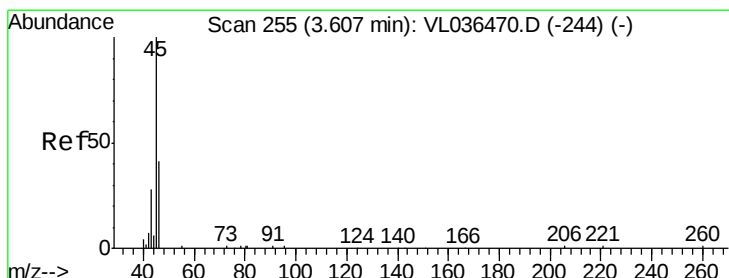
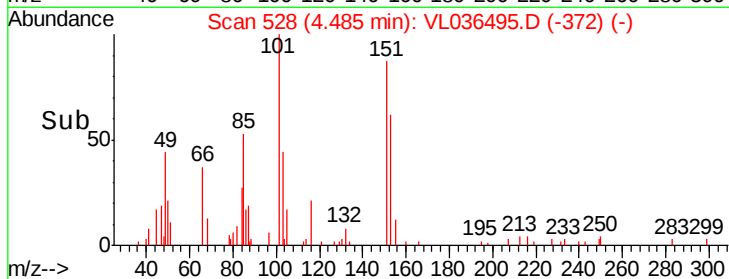
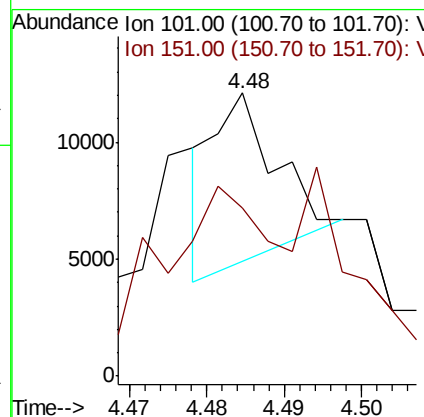
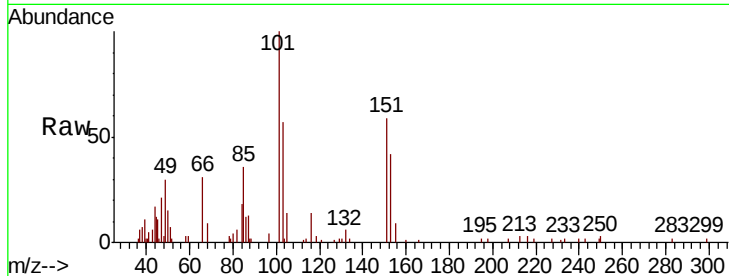
57 84.1 39.0 58.6#





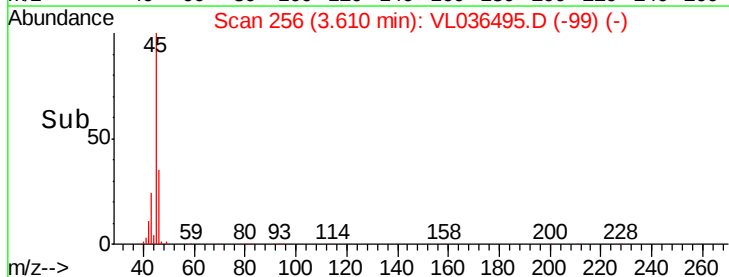
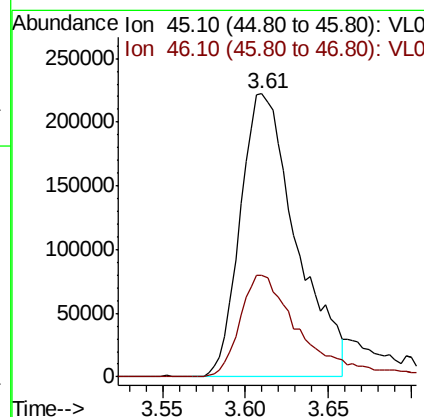
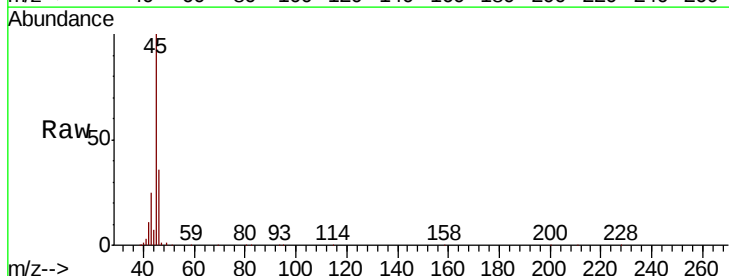
#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.027 ppbv
 RT: 4.48
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 25 Mar 2021 20:44

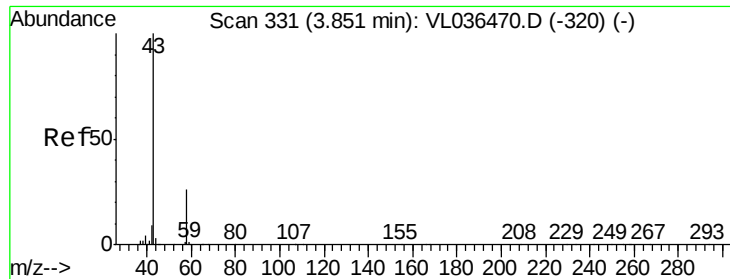
Tot Ion: 101 Resp: 4159
 Ion Ratio Lower Upper
 101 100
 151 398.7 60.9 91.3#



#13
 Ethanol
 Concen: 50.602 ppbv
 RT: 3.61 min Scan# 256
 Delta R.T.: 0.00 min
 Lab File: VL036495.D
 Acq: 25 Mar 2021 20:44

Tgt Ion: 45 Resp: 522004
 Ion Ratio Lower Upper
 45 100
 46 40.5 16.6 66.2





#15

Acetone

Concen: 7.137 ppbv

RT: 3.85 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

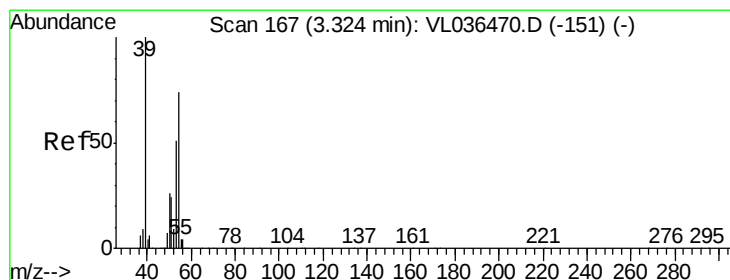
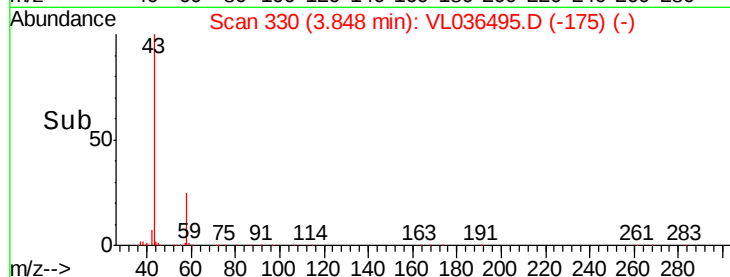
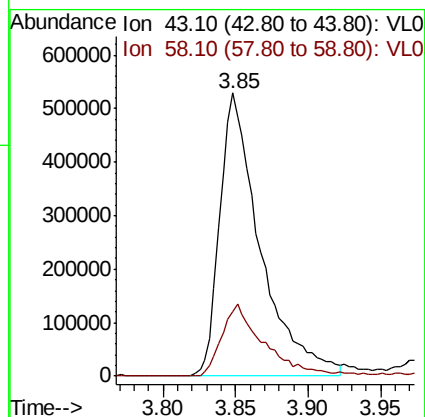
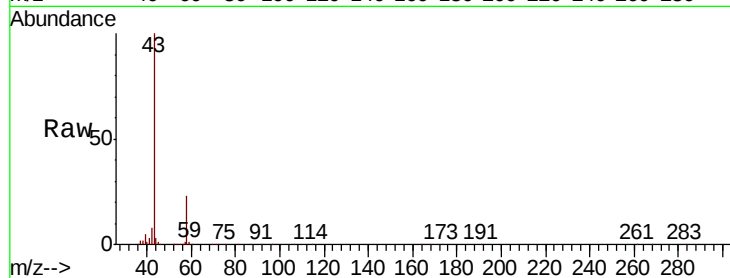
Acq: 25 Mar 2021 20:44

Tot Ion: 43 Resp: 1021637

Ion Ratio Lower Upper

43 100

58 27.7 21.2 31.8



#16

1,3-Butadiene

Concen: 0.083 ppbv

RT: 3.32 min Scan# 165

Delta R.T. -0.01 min

Lab File: VL036495.D

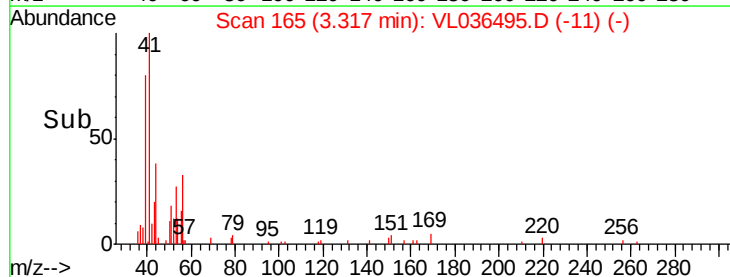
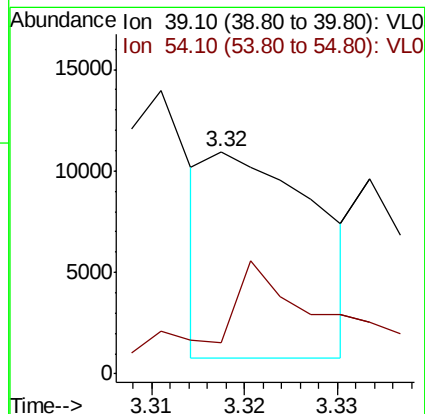
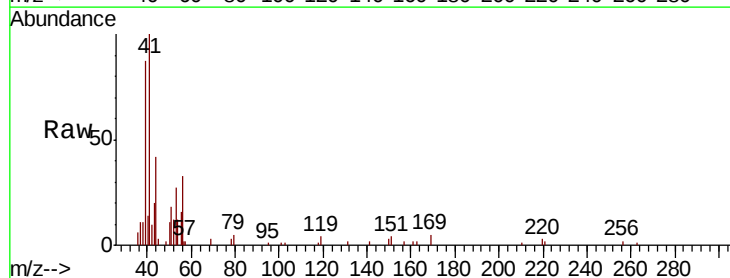
Acq: 25 Mar 2021 20:44

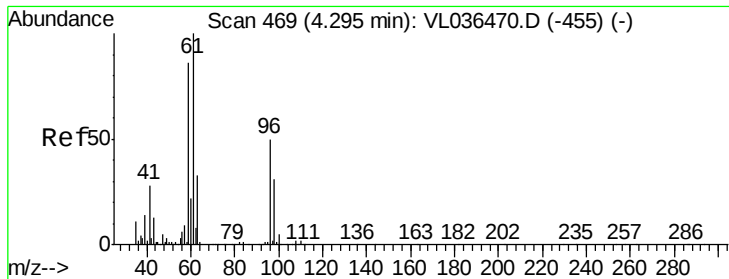
Tgt Ion: 39 Resp: 8230

Ion Ratio Lower Upper

39 100

54 98.6 58.8 88.2#





#17

tert-Butyl alcohol

Concen: 0.134 ppbv

RT: 4.30 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

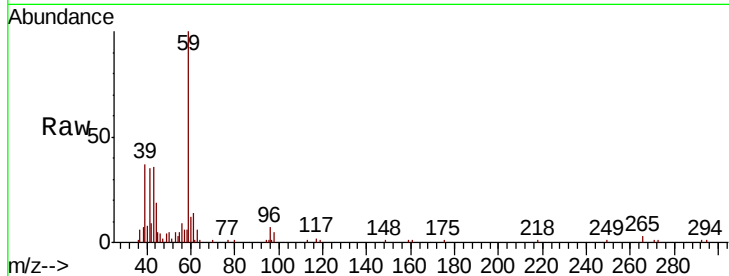
Acq: 25 Mar 2021 20:44

Tot Ion: 59 Resp: 16716

Ion Ratio Lower Upper

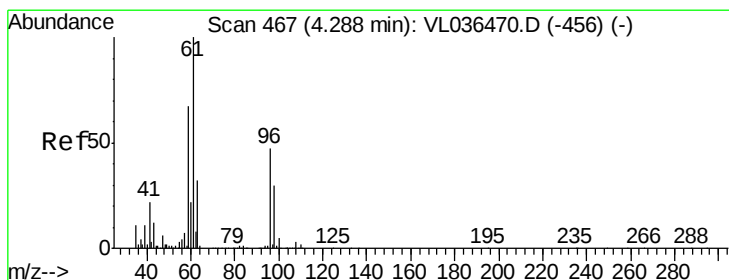
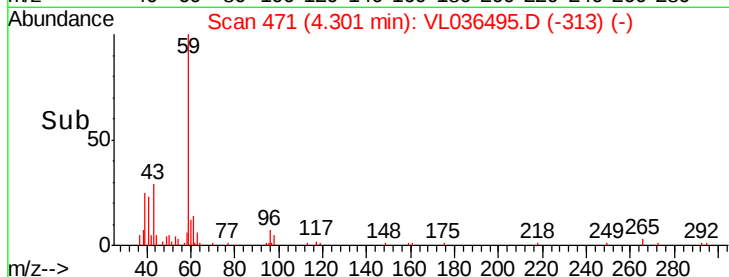
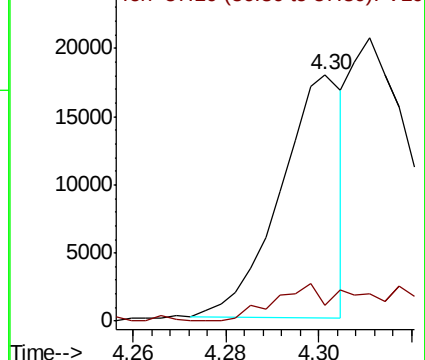
59 100

57 43.2 8.6 12.8#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#18

1,1-Dichloroethene

Concen: 0.036 ppbv

RT: 4.29 min Scan# 466

Delta R.T. -0.00 min

Lab File: VL036495.D

Acq: 25 Mar 2021 20:44

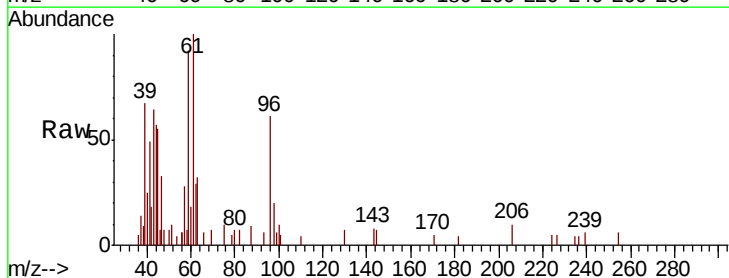
Tgt Ion: 96 Resp: 2459

Ion Ratio Lower Upper

96 100

61 164.5 168.6 253.0#

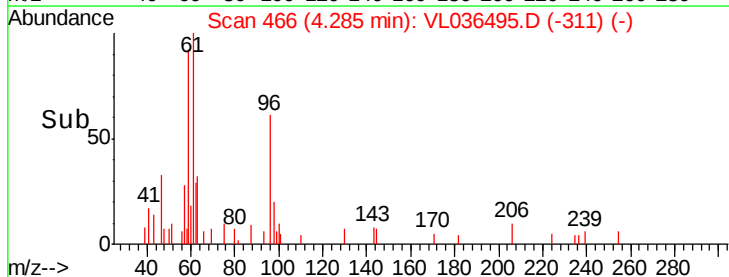
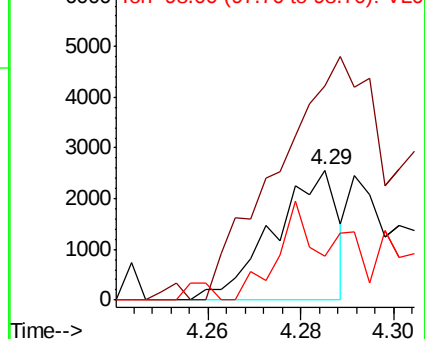
98 20.4 50.8 76.2#

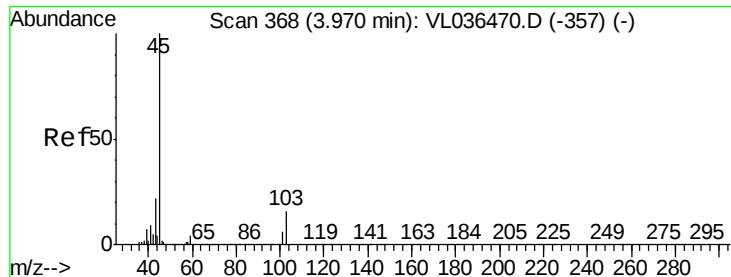


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#19

Isopropyl Alcohol

Concen: 2.137 ppbv

RT: 3.98 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

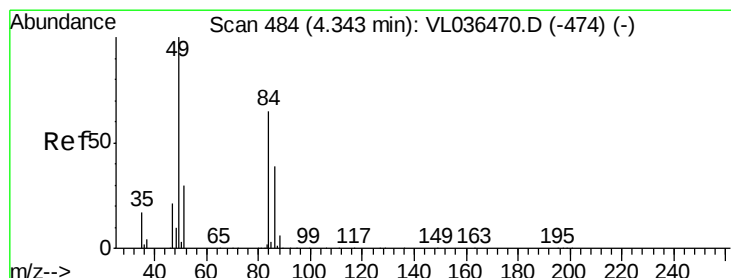
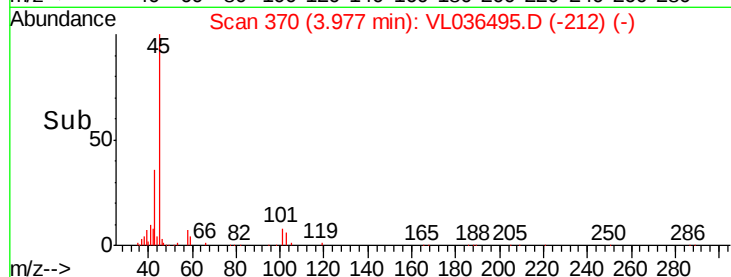
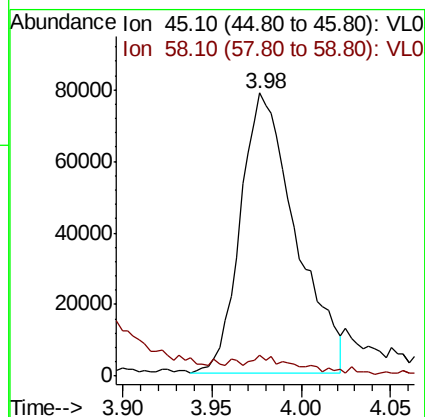
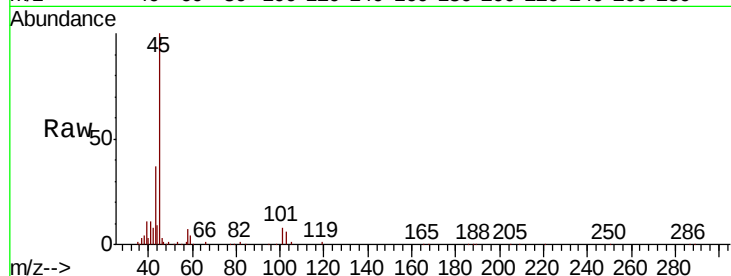
Acq: 25 Mar 2021 20:44

Tot Ion: 45 Resp: 168261

Ion Ratio Lower Upper

45 100

58 12.8 2.9 4.3#



#20

Methylene Chloride

Concen: 7.309 ppbv

RT: 4.34 min Scan# 484

Delta R.T. 0.00 min

Lab File: VL036495.D

Acq: 25 Mar 2021 20:44

Tgt Ion: 84 Resp: 489862

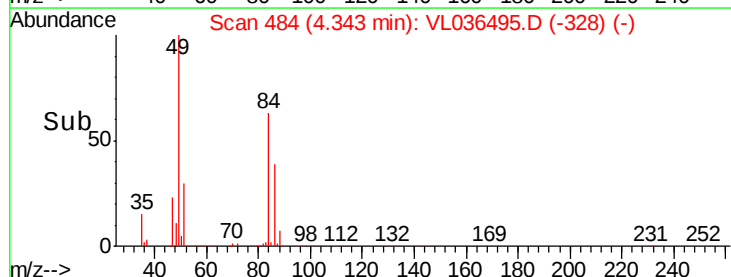
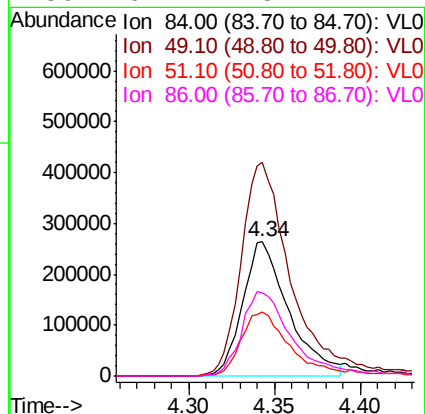
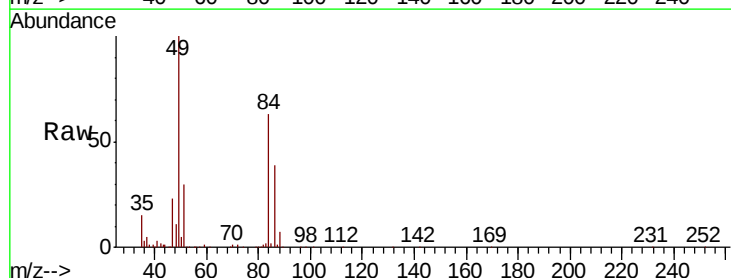
Ion Ratio Lower Upper

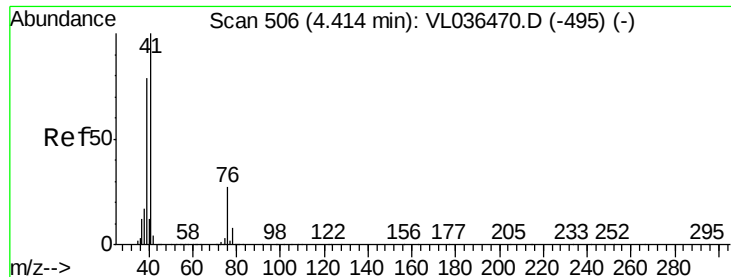
84 100

49 159.2 122.9 184.3

51 47.6 36.9 55.3

86 62.4 48.2 72.4





#21

Allvl Chloride

Concen: 0.020 ppbv

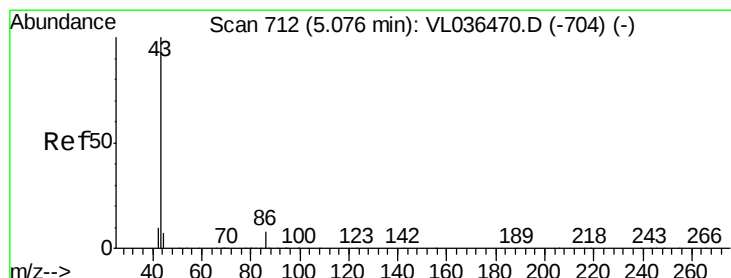
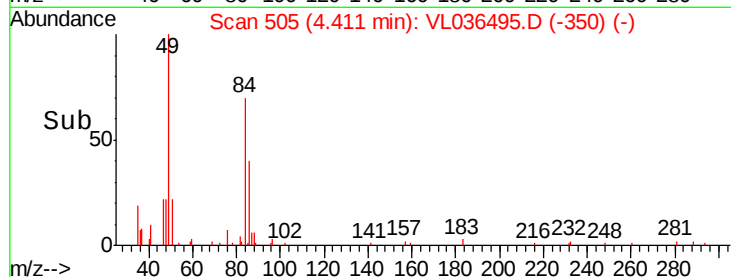
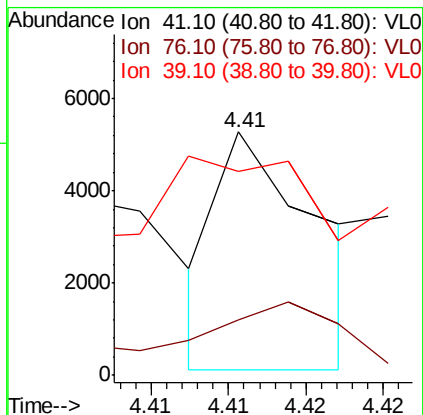
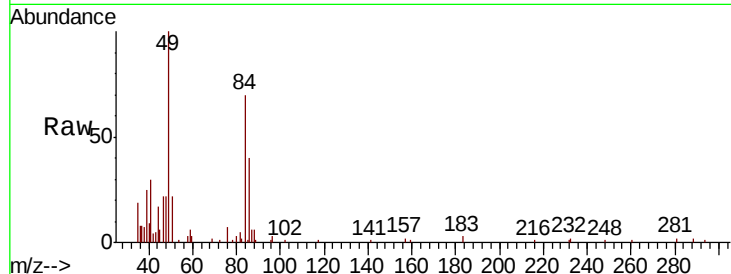
RT: 4.41 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 25 Mar 2021 20:44

Tot Ion:	41	Resp:	2287
Ion	Ratio	Lower	Upper
41	100		
76	80.6	22.9	34.3#
39	409.1	67.3	100.9#



#23

Vinyl Acetate

Concen: 0.391 ppbv

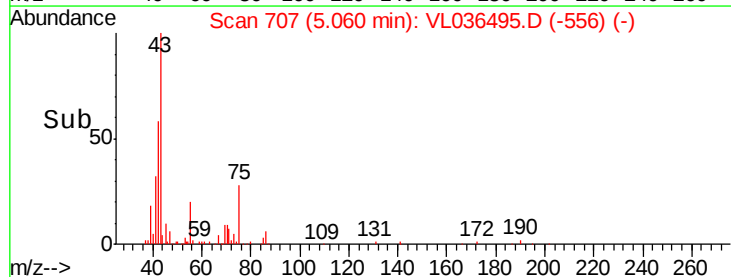
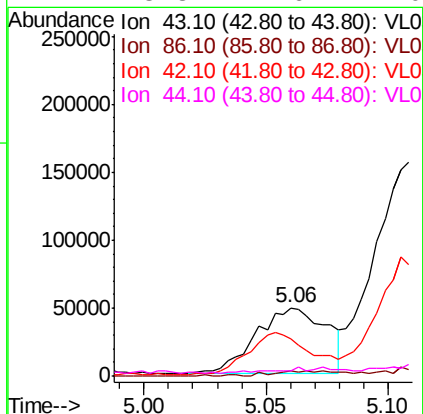
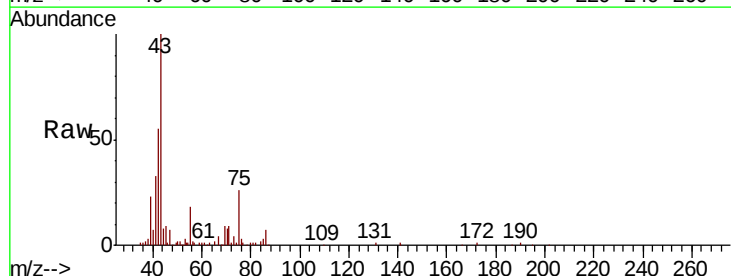
RT: 5.06 min Scan# 707

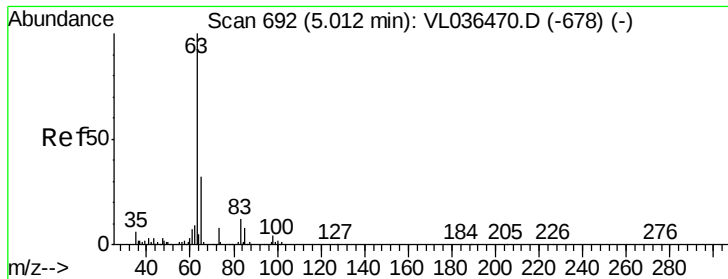
Delta R.T. -0.02 min

Lab File: VL036495.D

Acq: 25 Mar 2021 20:44

Tgt Ion:	43	Resp:	95765
Ion	Ratio	Lower	Upper
43	100		
86	7.2	5.4	8.0
42	56.4	8.5	12.7#
44	3.3	4.6	7.0#





#24

1,1-Dichloroethane

Concen: 0.026 ppbv

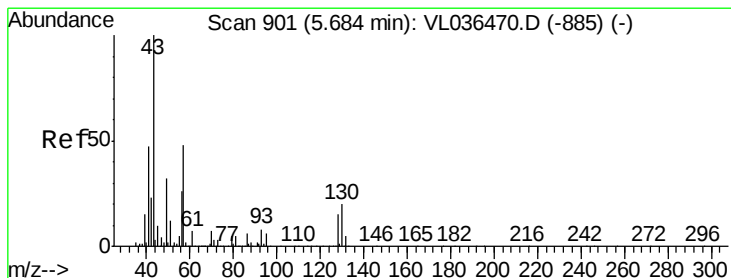
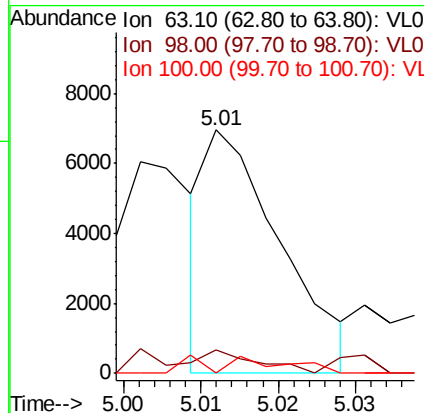
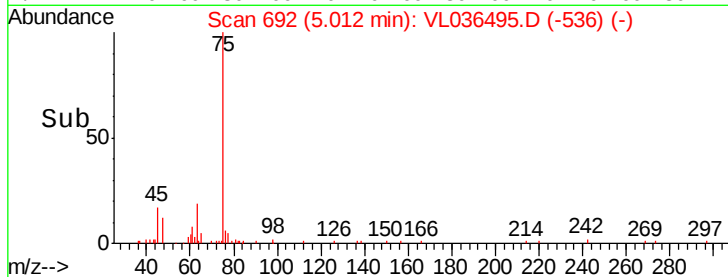
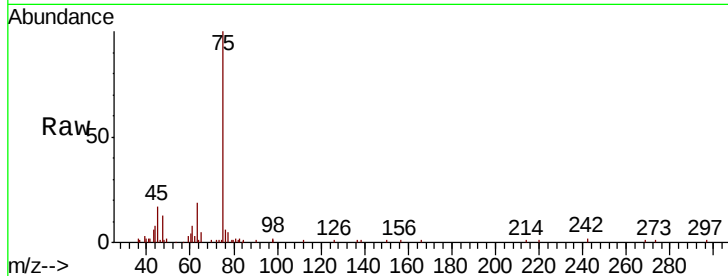
RT: 5.01 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 25 Mar 2021 20:44

Tot Ion:	63	Resp:	4701
Ion	Ratio	Lower	Upper
63	100		
98	7.5	2.1	6.2#
100	0.0	0.9	2.8#



#25

Ethyl Acetate

Concen: 1.285 ppbv

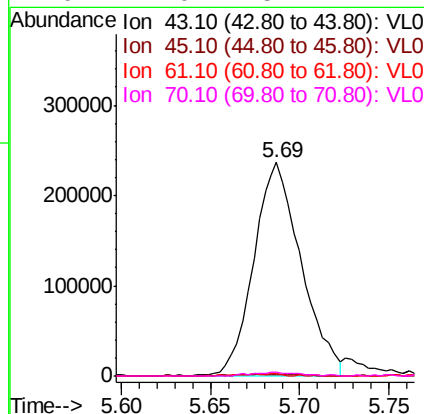
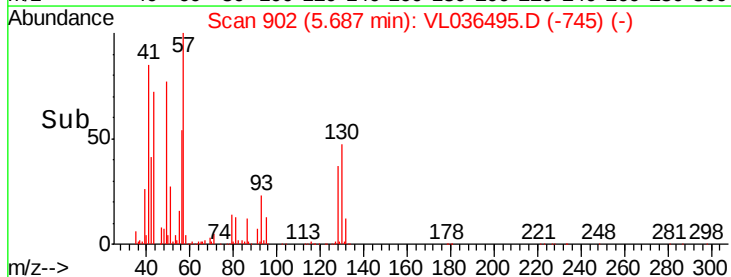
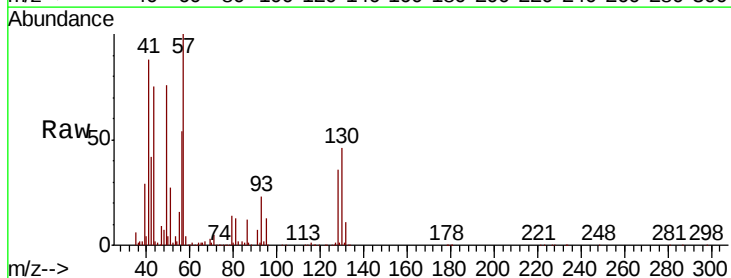
RT: 5.69 min Scan# 902

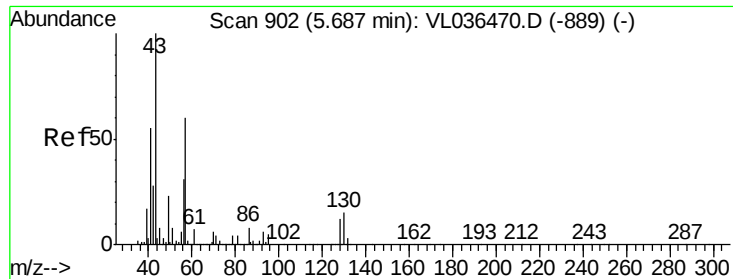
Delta R.T. 0.00 min

Lab File: VL036495.D

Acq: 25 Mar 2021 20:44

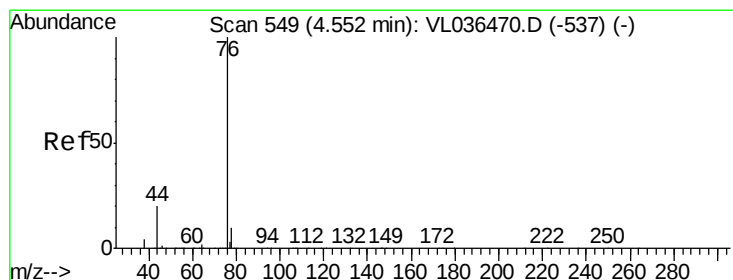
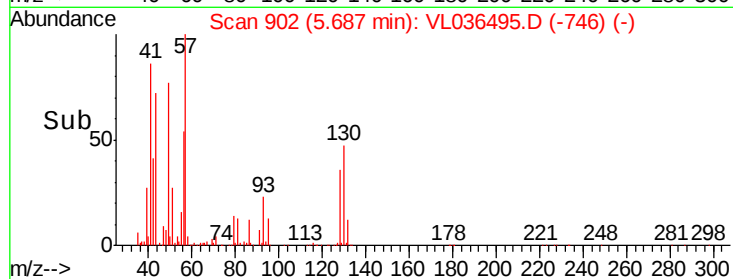
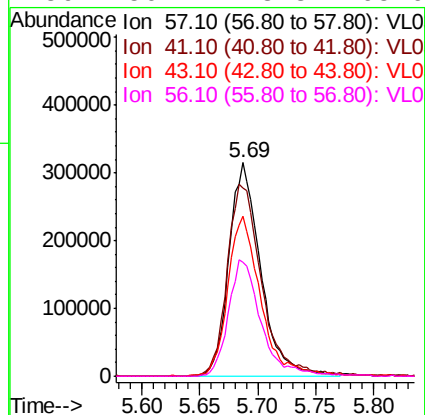
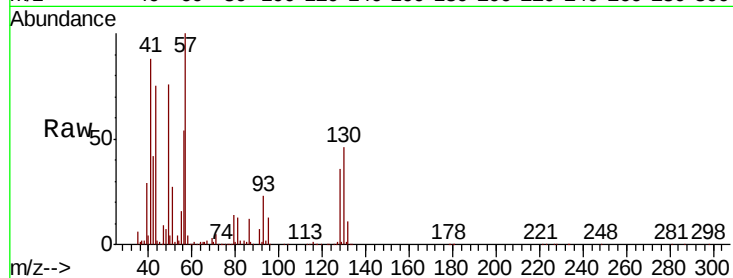
Tgt Ion:	43	Resp:	437182
Ion	Ratio	Lower	Upper
43	100		
45	1.2	7.9	11.9#
61	1.2	7.4	11.2#
70	2.0	5.1	7.7#





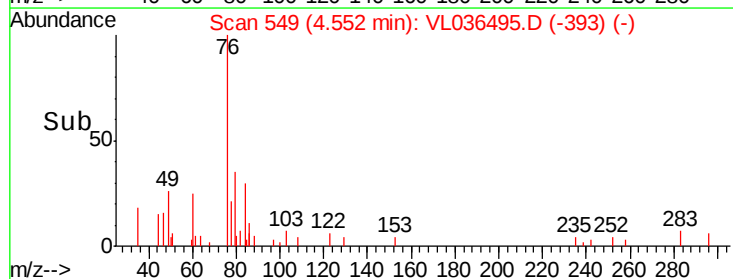
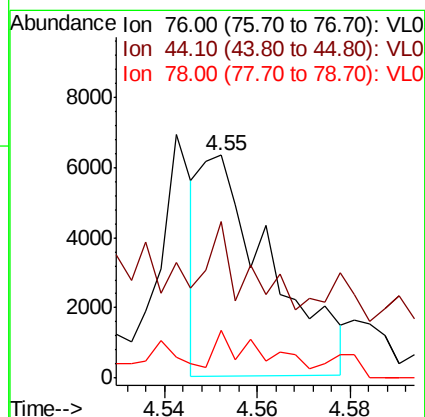
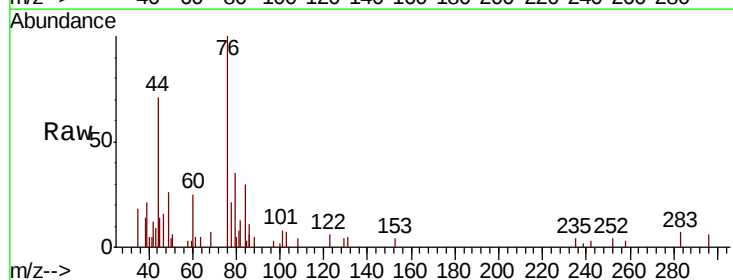
#26
Hexane
Concen: 3.777 ppbv
RT: 5.69
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 25 Mar 2021 20:44

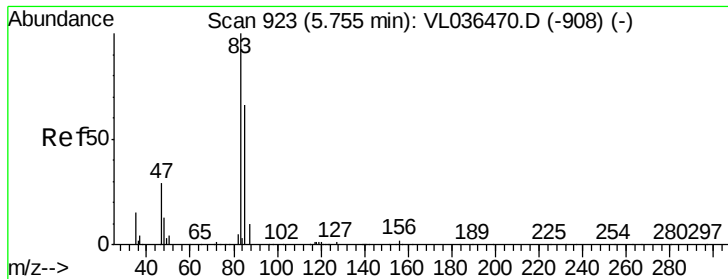
Tot Ion:	57	Resp:	596421
Ion	Ratio	Lower	Upper
57	100		
41	98.5	77.2	115.8
43	78.4	173.8	260.6#
56	56.7	43.8	65.6



#27
Carbon Disulfide
Concen: 0.042 ppbv
RT: 4.55 min Scan# 549
Delta R.T. 0.00 min
Lab File: VL036495.D
Acq: 25 Mar 2021 20:44

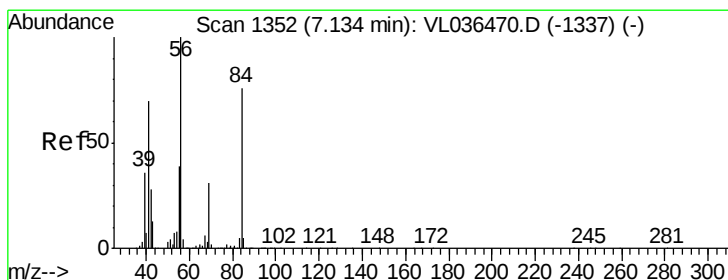
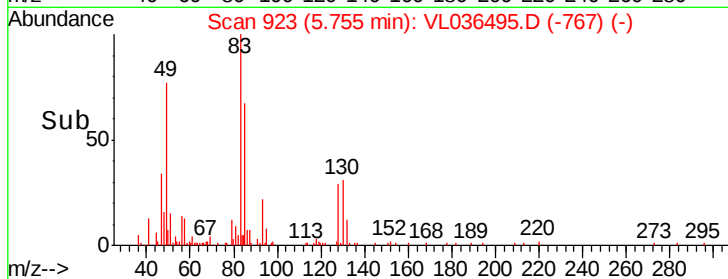
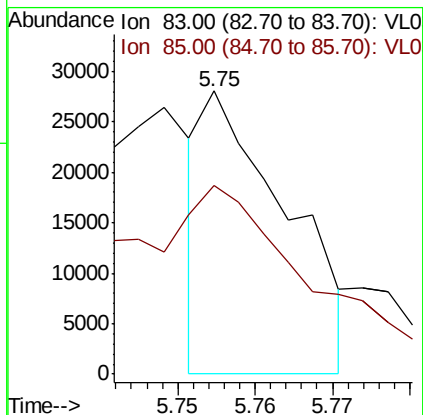
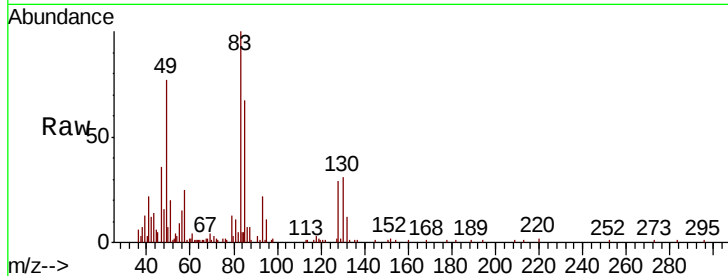
Tgt Ion:	76	Resp:	6600
Ion	Ratio	Lower	Upper
76	100		
44	52.4	17.5	26.3#
78	33.8	8.6	13.0#





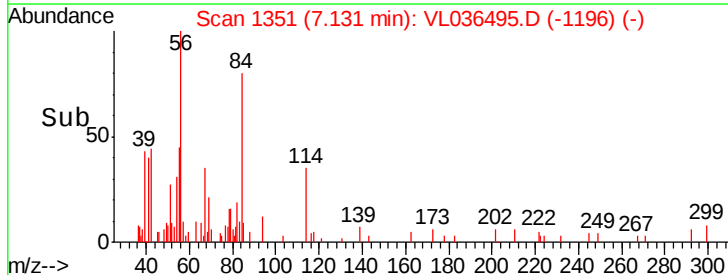
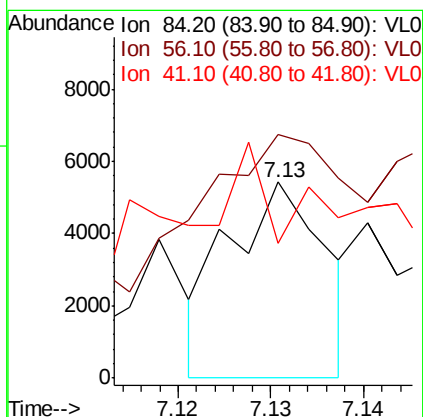
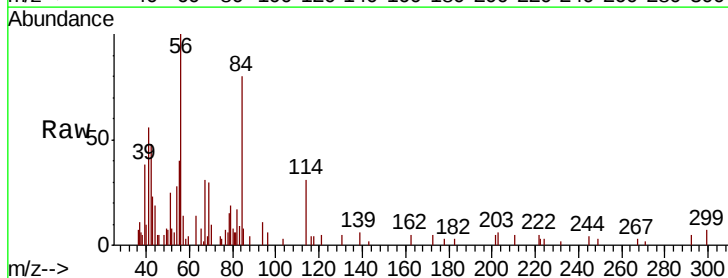
#29
Chloroform
Concen: 0.083 ppbv
RT: 5.75 Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 25 Mar 2021 20:44

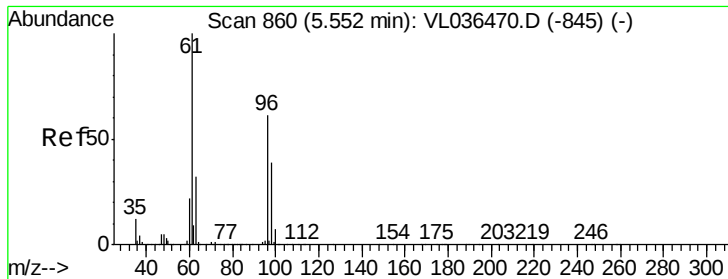
Tot Ion: 83 Resp: 21050
Ion Ratio Lower Upper
83 100
85 54.9 52.6 78.8



#30
Cyclohexane
Concen: 0.031 ppbv
RT: 7.13 min Scan# 1351
Delta R.T. -0.00 min
Lab File: VL036495.D
Acq: 25 Mar 2021 20:44

Tgt Ion: 84 Resp: 3913
Ion Ratio Lower Upper
84 100
56 0.0 114.6 171.8#
41 343.9 75.3 112.9#





#31

cis-1,2-Dichloroethene

Concen: 0.024 ppbv

RT: 5.55 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 25 Mar 2021 20:44

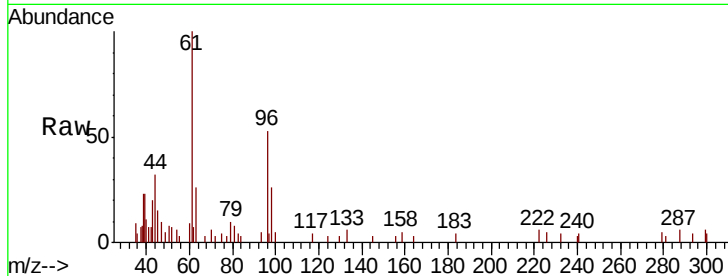
Tot Ion: 61 Resp: 3724

Ion Ratio Lower Upper

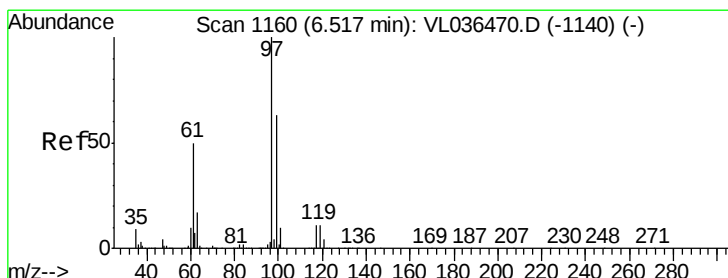
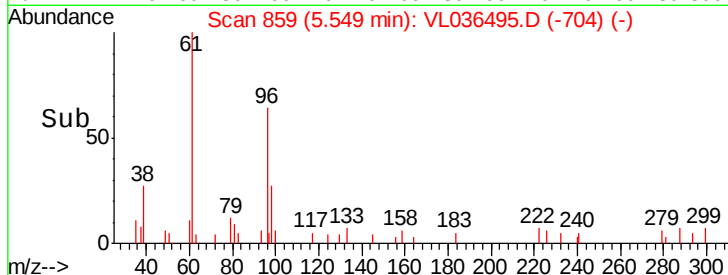
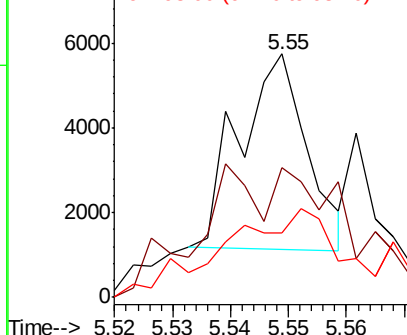
61 100

96 47.0 48.7 73.1#

98 20.1 31.4 47.0#



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



#32

1,1,1-Trichloroethane

Concen: 0.026 ppbv

RT: 6.51 min Scan# 1157

Delta R.T. -0.01 min

Lab File: VL036495.D

Acq: 25 Mar 2021 20:44

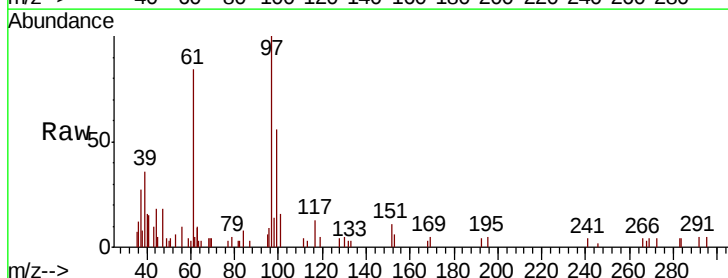
Tgt Ion: 97 Resp: 6535

Ion Ratio Lower Upper

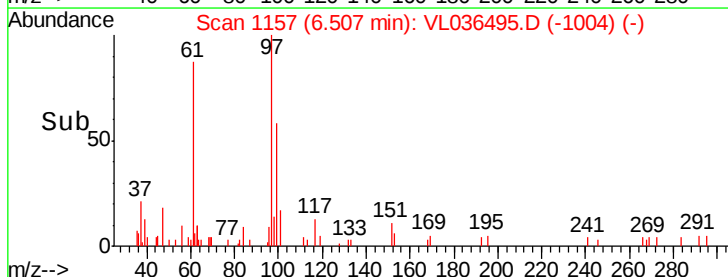
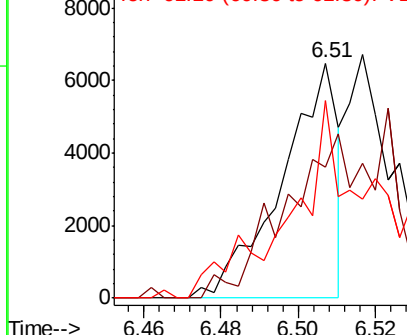
97 100

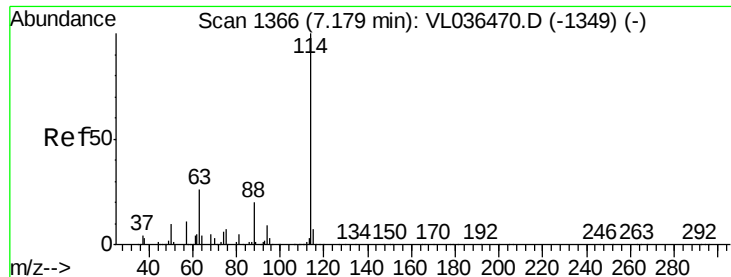
99 0.0 51.4 77.0#

61 133.0 40.6 60.8#



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





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 Instrument: MSVOA_1

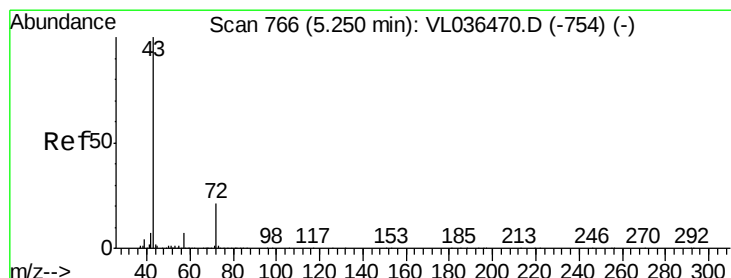
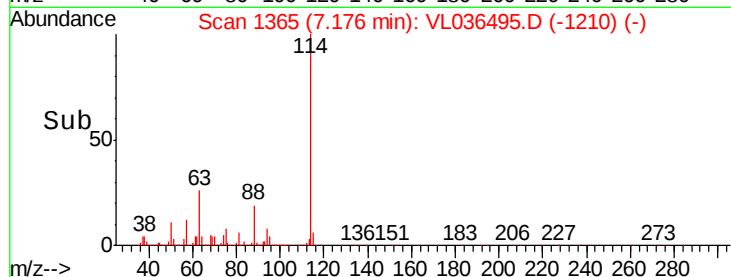
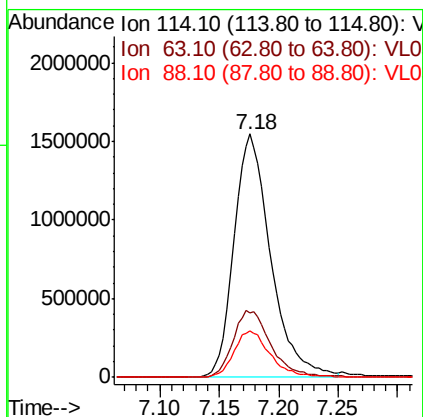
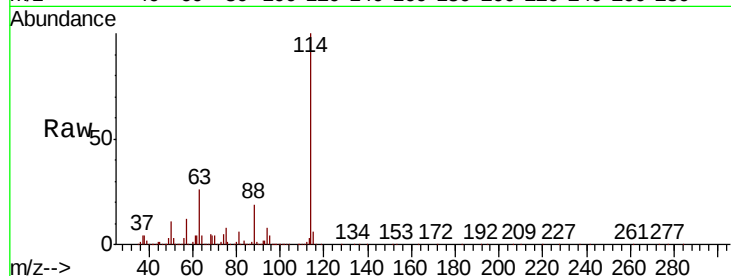
Delta R.T. ClientSampleId:

Lab File:

Acq: 25 Mar 2021 20:44

Tot Ion:114 Resp: 3309979

Ion	Ratio	Lower	Upper
114	100		
63	28.6	22.4	33.6
88	19.2	15.4	23.0



#34

2-Butanone

Concen: 0.542 ppbv

RT: 5.25 min Scan# 766

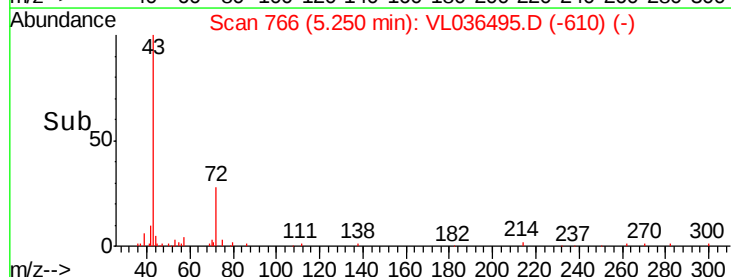
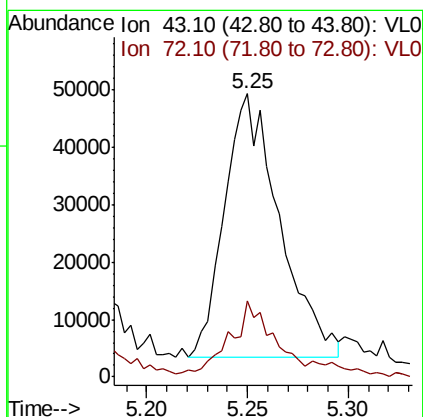
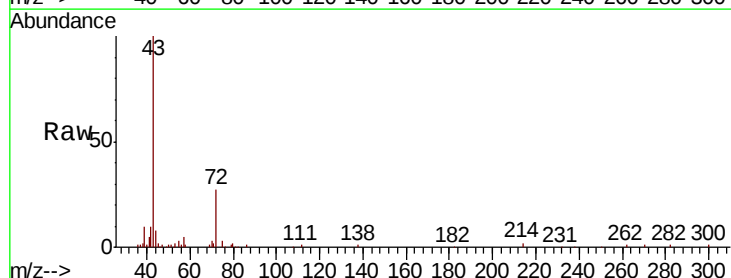
Delta R.T. 0.00 min

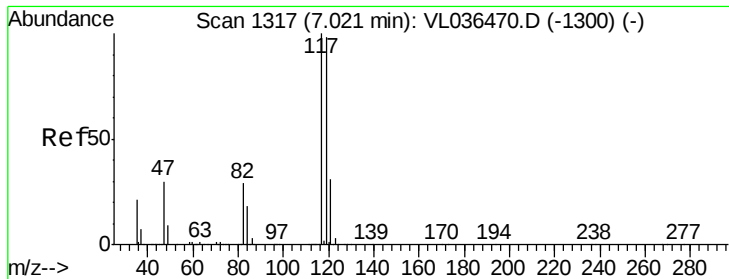
Lab File: VL036495.D

Acq: 25 Mar 2021 20:44

Tgt Ion: 43 Resp: 87580

Ion	Ratio	Lower	Upper
43	100		
72	27.8	17.0	25.6#





#35

Carbon Tetrachloride

Concen: 0.037 ppbv

RT: 7.02 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 25 Mar 2021 20:44

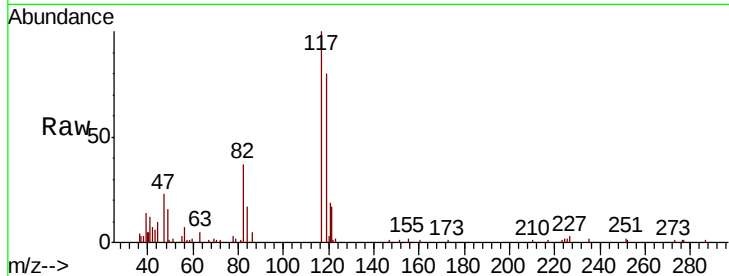
Tot Ion: 117 Resp: 9366

Ion Ratio Lower Upper

117 100

119 31.2 78.2 117.2#

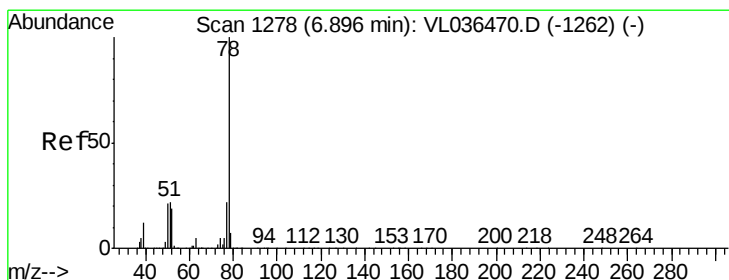
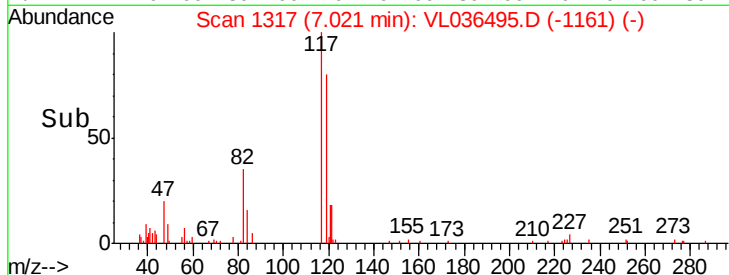
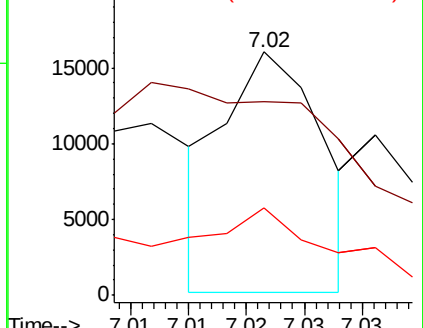
121 37.2 24.5 36.7#



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: 0.142 ppbv

RT: 6.89 min Scan# 1275

Delta R.T. -0.01 min

Lab File: VL036495.D

Acq: 25 Mar 2021 20:44

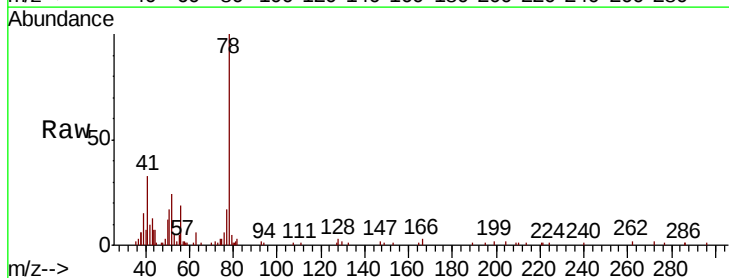
Tgt Ion: 78 Resp: 43313

Ion Ratio Lower Upper

78 100

77 15.4 18.0 27.0#

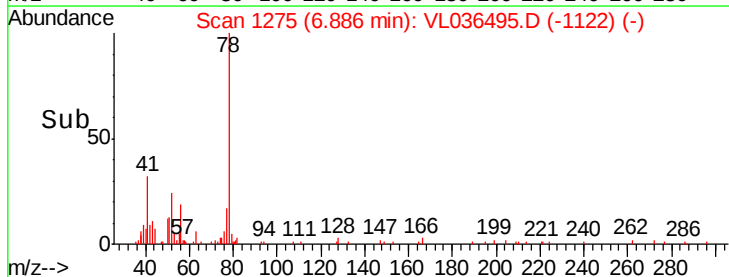
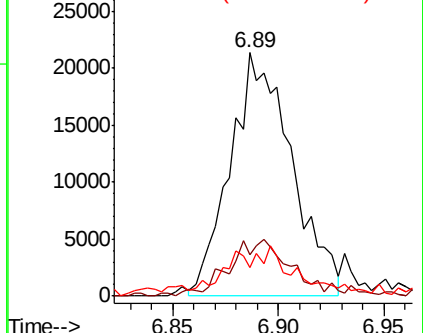
50 10.0 16.5 24.7#

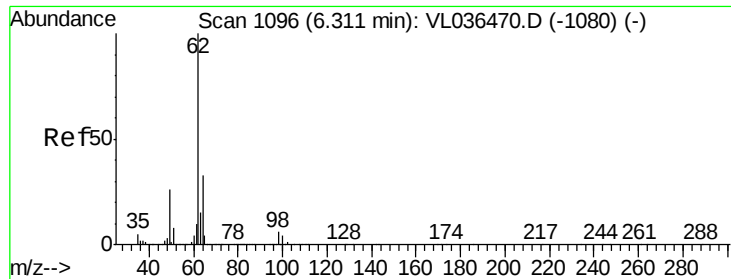


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

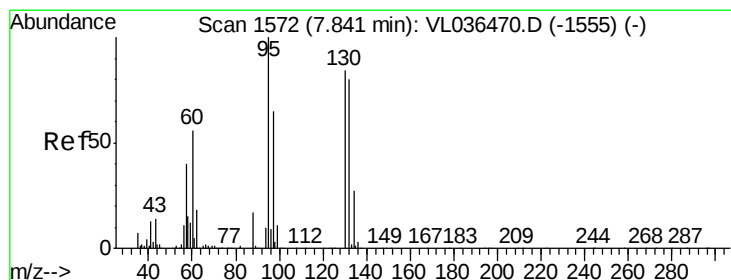
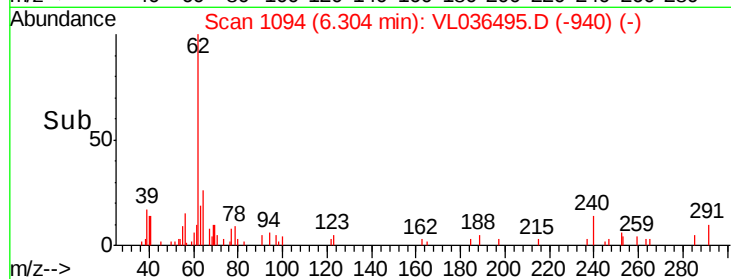
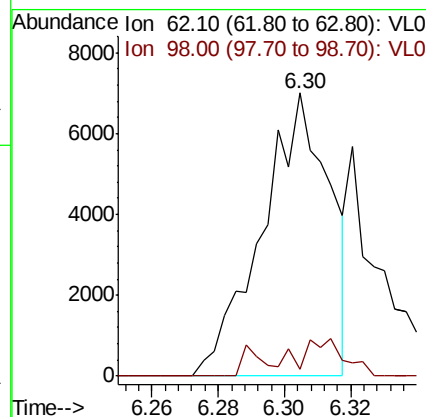
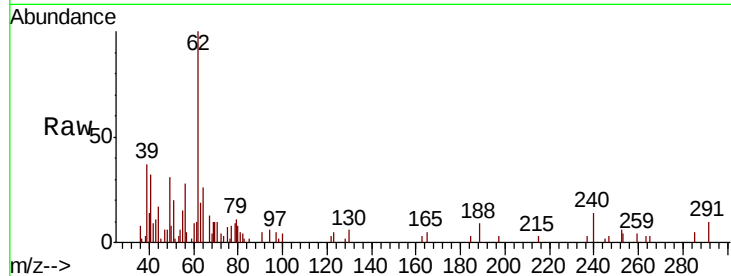
Ion 50.10 (49.80 to 50.80): VL0





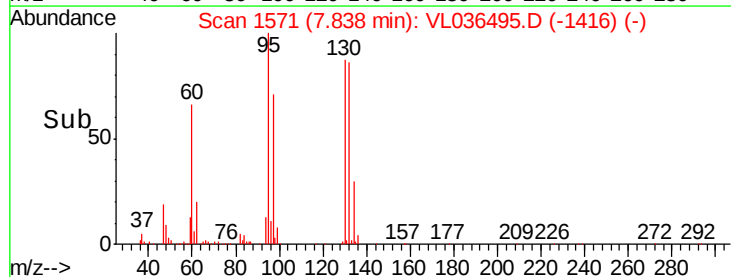
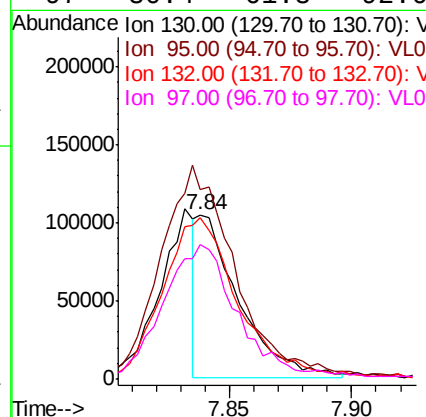
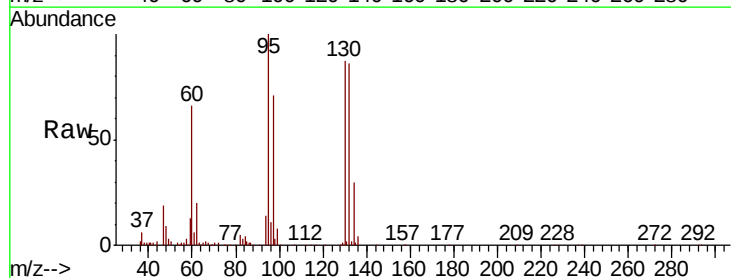
#37
 1,2-Dichloroethane
 Concen: 0.055 ppbv
 RT: 6.30 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 25 Mar 2021 20:44

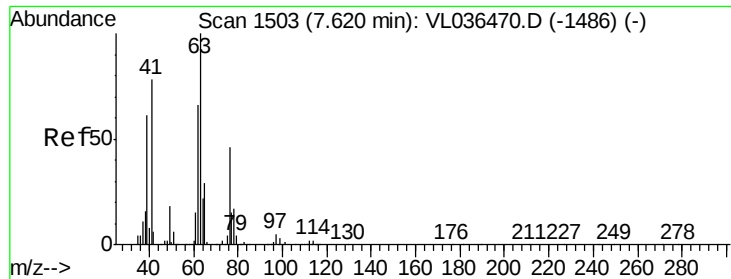
Tot Ion	62	98	Ratio	Lower	Upper
62	100				
98		0.0	4.9	7.3	



#38
 Trichloroethene
 Concen: 1.038 ppbv
 RT: 7.84 min Scan# 1571
 Delta R.T. -0.00 min
 Lab File: VL036495.D
 Acq: 25 Mar 2021 20:44

Tgt Ion	130	95	132	97	Ratio	Lower	Upper
130	100						
95		114.0			95.7	143.5	
132		96.5			76.2	114.4	
97		80.4			61.8	92.6	





#39

1,2-Dichloropropane

Concen: 7.390 ppbv

RT: 7.17 Instrument:

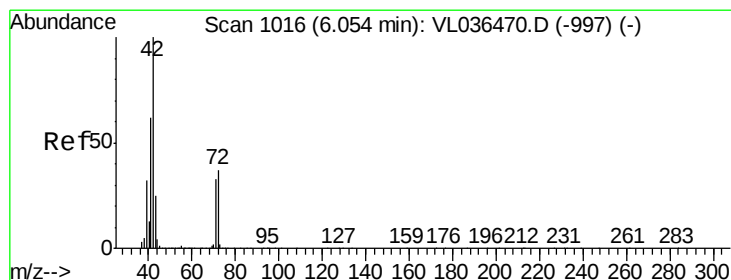
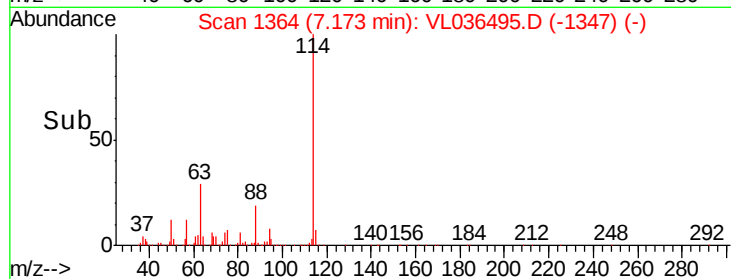
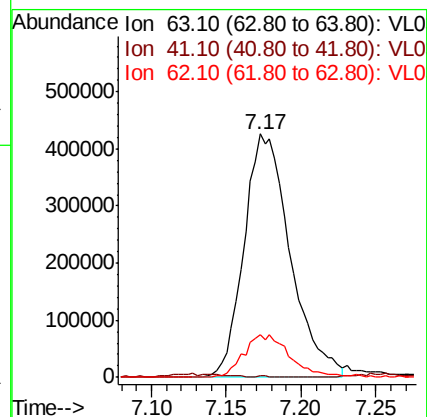
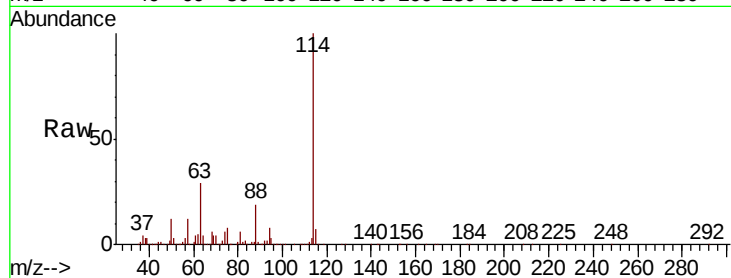
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 25 Mar 2021 20:44

Tot Ion: 63 Resp: 915137

Ion	Ratio	Lower	Upper
63	100		
41	0.0	62.4	93.6#
62	17.3	52.8	79.2#



#41

Tetrahydrofuran

Concen: 3.317 ppbv

RT: 5.69 min Scan# 902

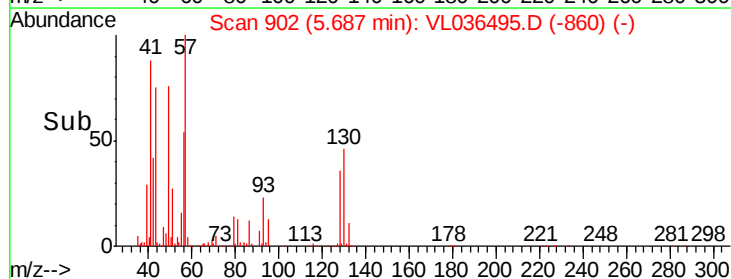
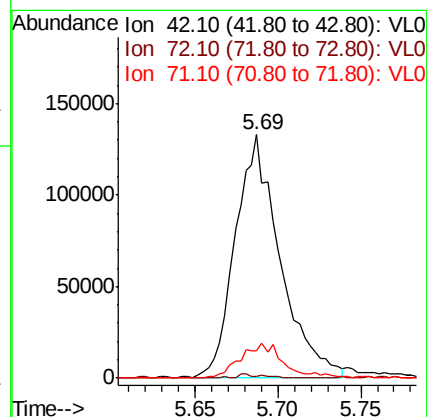
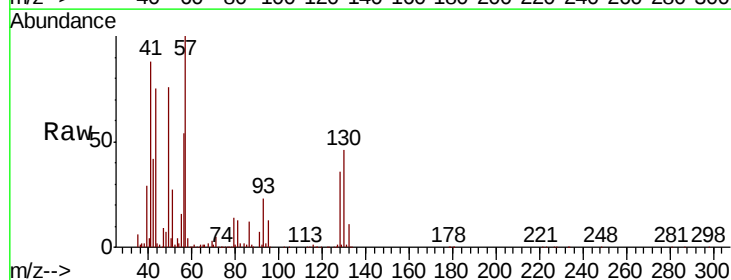
Delta R.T. -0.37 min

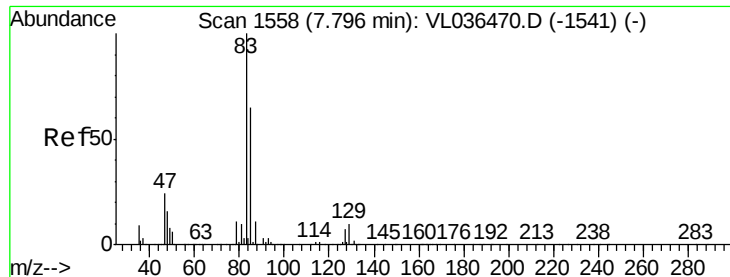
Lab File: VL036495.D

Acq: 25 Mar 2021 20:44

Tgt Ion: 42 Resp: 247103

Ion	Ratio	Lower	Upper
42	100		
72	1.1	27.6	41.4#
71	14.4	27.0	40.4#





#42

Bromodichloromethane

Concen: 0.027 ppbv

RT: 7.79 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 25 Mar 2021 20:44

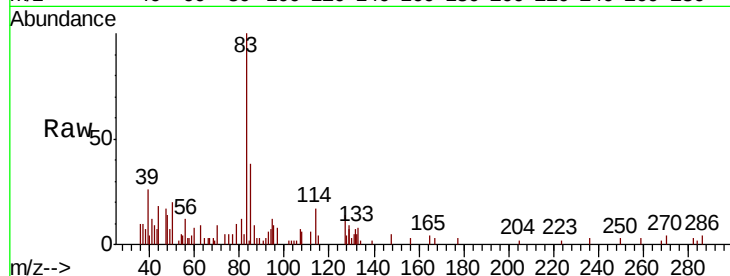
Tot Ion: 83 Resp: 6534

Ion Ratio Lower Upper

83 100

85 15.7 51.8 77.6#

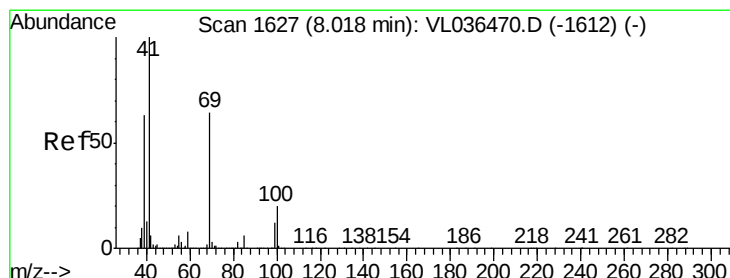
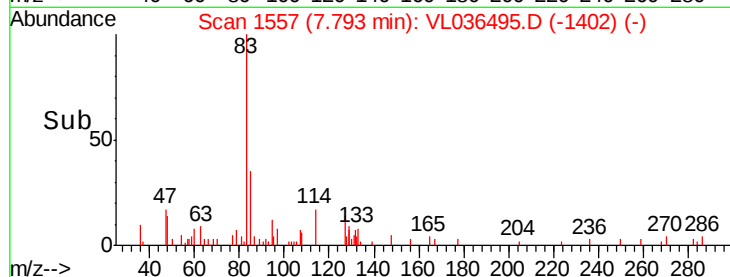
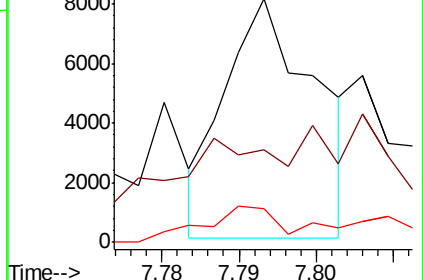
127 11.2 5.8 8.8#



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): VL0



#43

Methyl Methacrylate

Concen: 0.024 ppbv

RT: 8.02 min Scan# 1627

Delta R.T. 0.00 min

Lab File: VL036495.D

Acq: 25 Mar 2021 20:44

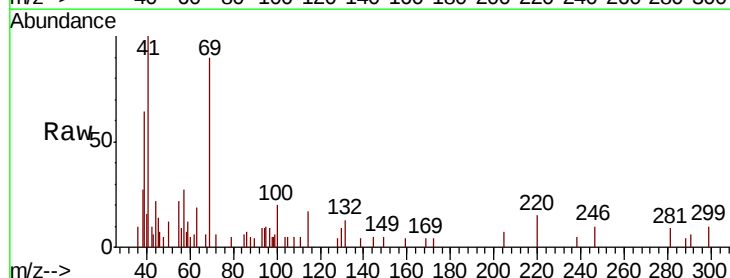
Tgt Ion: 69 Resp: 2471

Ion Ratio Lower Upper

69 100

41 431.6 126.8 190.2#

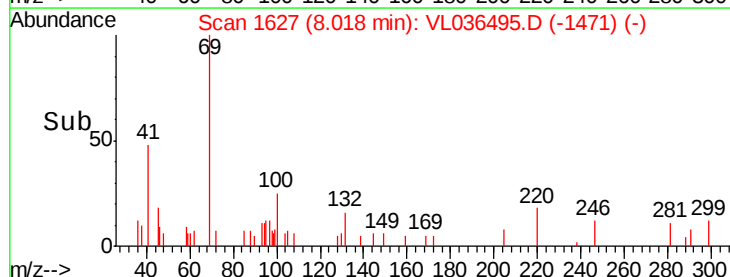
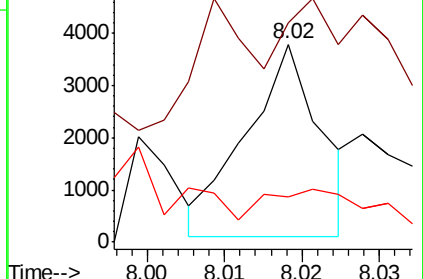
100 0.0 24.9 37.3#

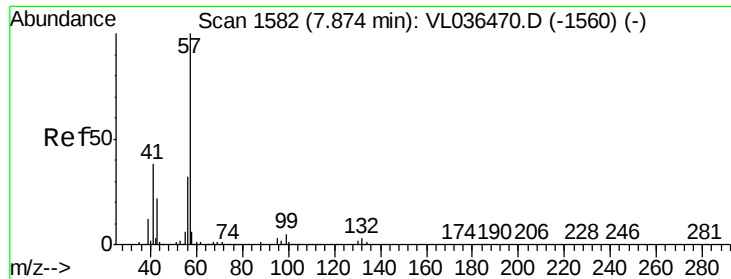


Abundance Ion 69.10 (68.80 to 69.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

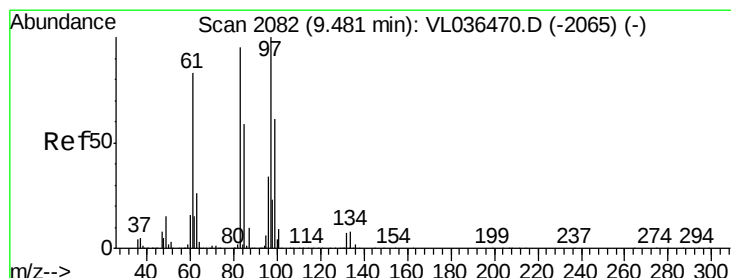
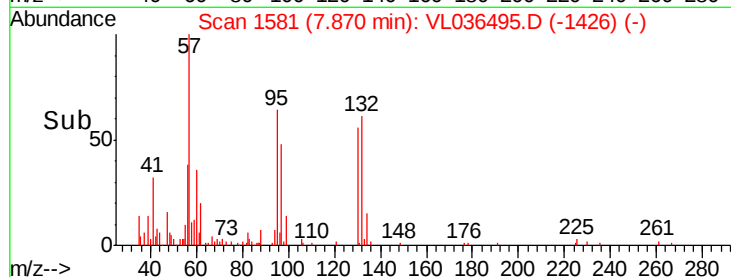
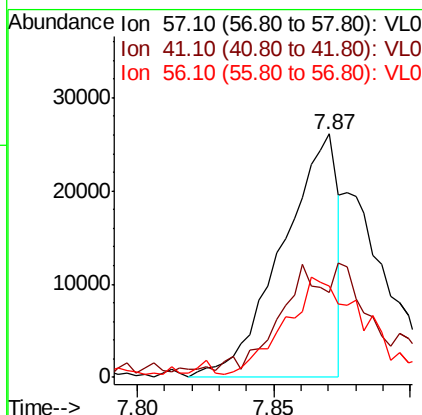
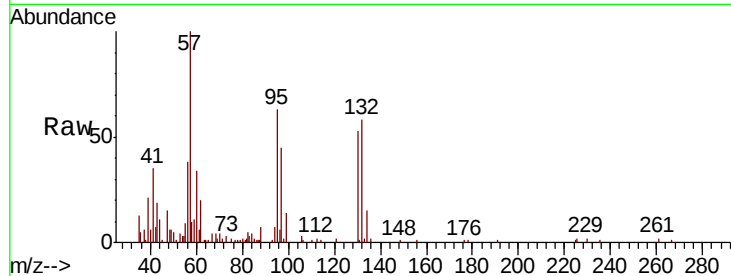
Ion 100.10 (99.80 to 100.80): VL0





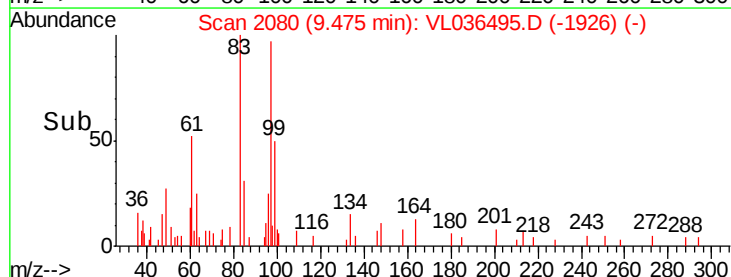
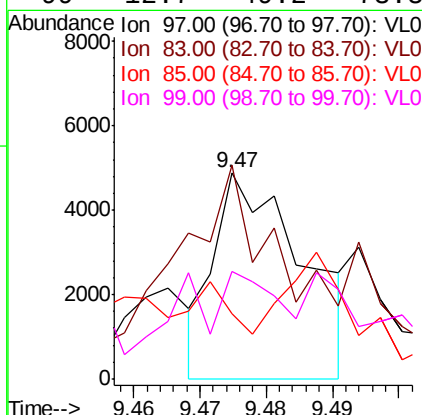
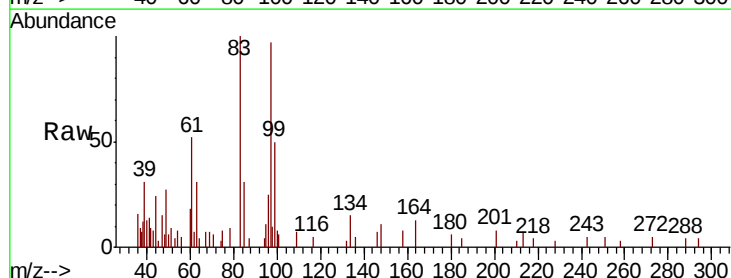
#44
 2,2,4-Trimethylpentane
 Concen: 0.068 ppbv
 RT: 7.87 Instrument:
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 Acq: 25 Mar 2021 20:44

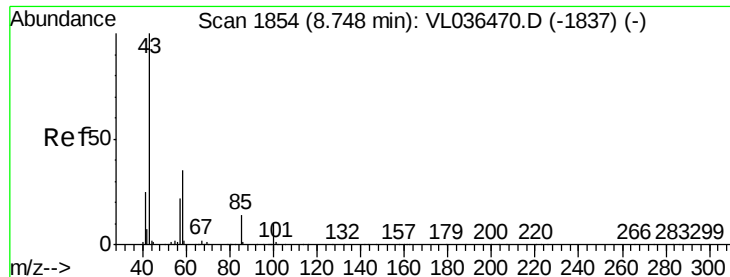
Tot Ion	57	Resp	36697
Ion Ratio	100	Lower	Upper
41	0.0	28.8	43.2#
56	61.5	26.1	39.1#



#47
 1,1,2-Trichloroethane
 Concen: 0.036 ppbv
 RT: 9.47 min Scan# 2080
 Delta R.T. -0.01 min
 Lab File: VL036495.D
 Acq: 25 Mar 2021 20:44

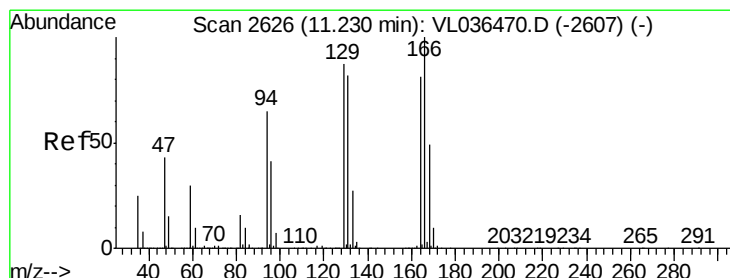
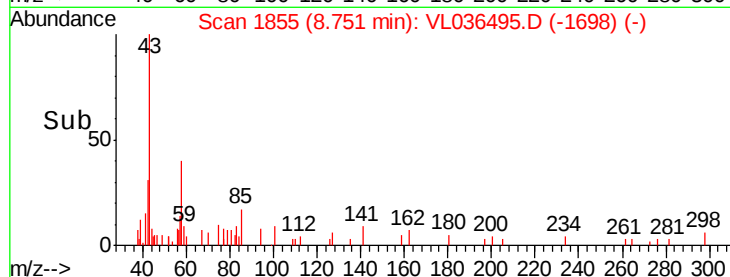
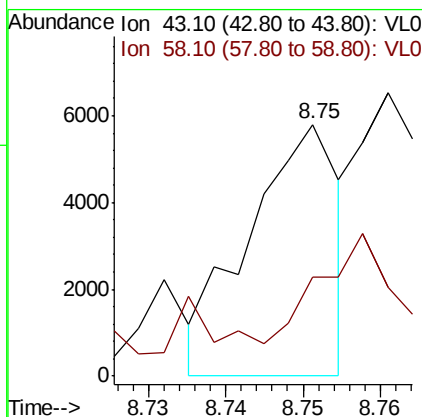
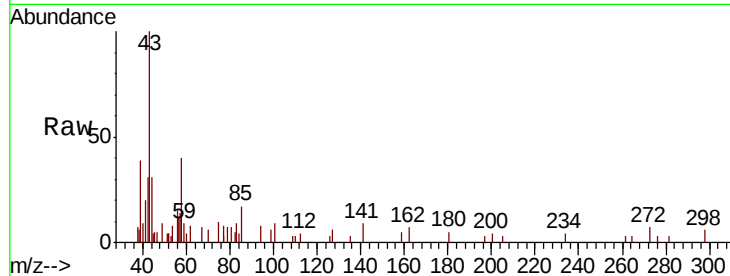
Tgt Ion	97	Resp	4527
Ion Ratio	100	Lower	Upper
83	103.5	75.8	113.8
85	0.0	47.1	70.7#
99	12.7	49.2	73.8#





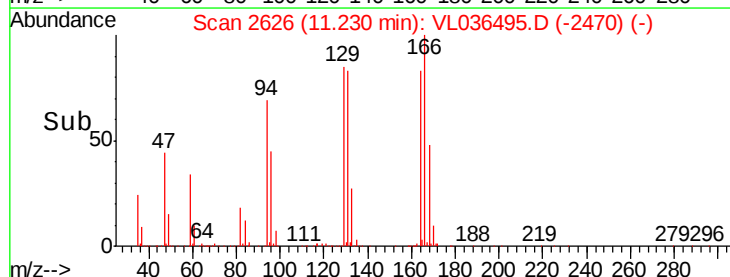
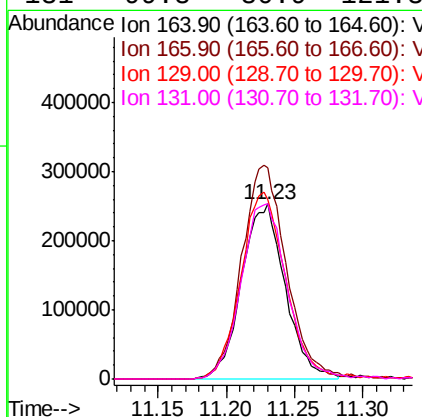
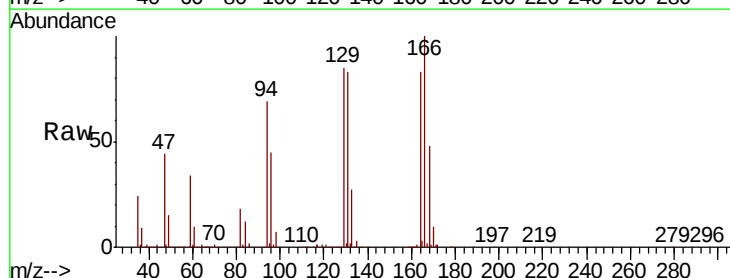
#50
4-Methyl-2-Pentanone
Concen: 0.020 ppbv
RT: 8.75 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 25 Mar 2021 20:44

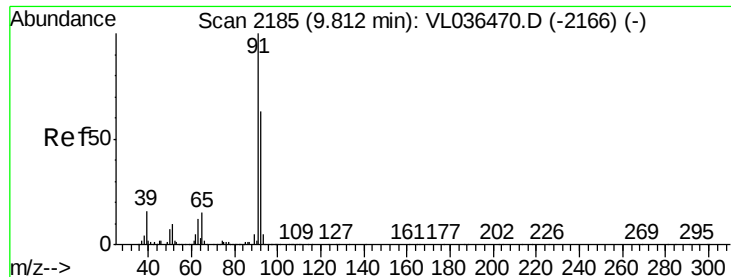
Tot Ion: 43 Resp: 4690
Ion Ratio Lower Upper
43 100
58 0.0 28.2 42.2#



#52
Tetrachloroethene
Concen: 4.967 ppbv
RT: 11.23 min Scan# 2626
Delta R.T. 0.00 min
Lab File: VL036495.D
Acq: 25 Mar 2021 20:44

Tgt Ion:164 Resp: 558400
Ion Ratio Lower Upper
164 100
166 120.5 98.3 147.5
129 102.1 85.8 128.8
131 99.8 80.9 121.3





#53

Toluene

Concen: 0.105 ppbv

RT: 9.81 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

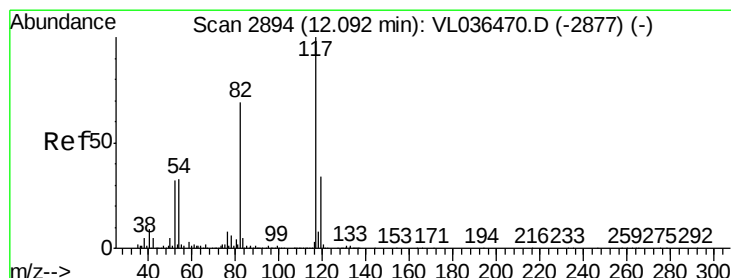
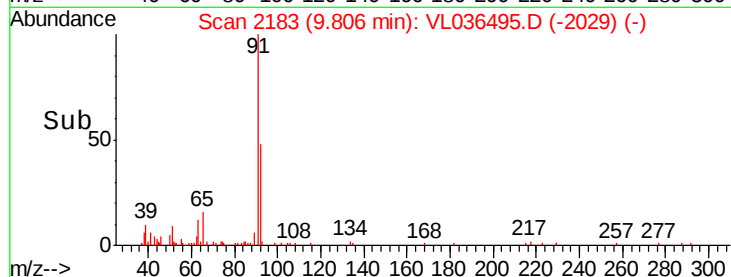
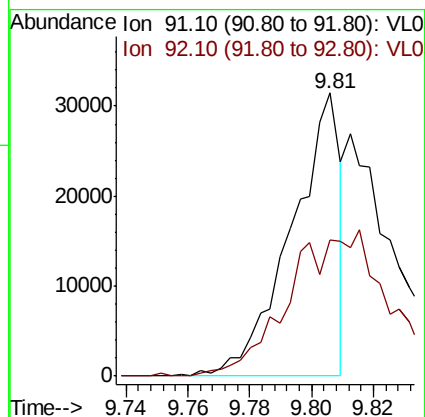
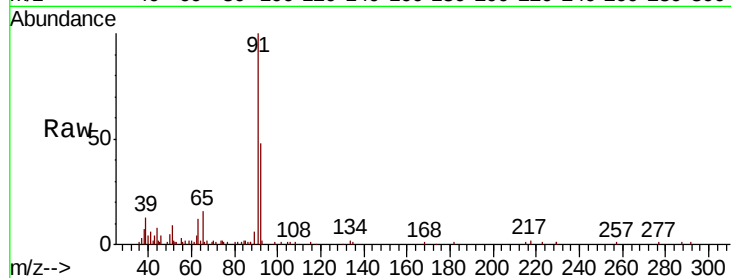
Acq: 25 Mar 2021 20:44

Tot Ion: 91 Resp: 34236

Ion Ratio Lower Upper

91 100

92 0.0 48.8 73.2#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2893

Delta R.T. -0.00 min

Lab File: VL036495.D

Acq: 25 Mar 2021 20:44

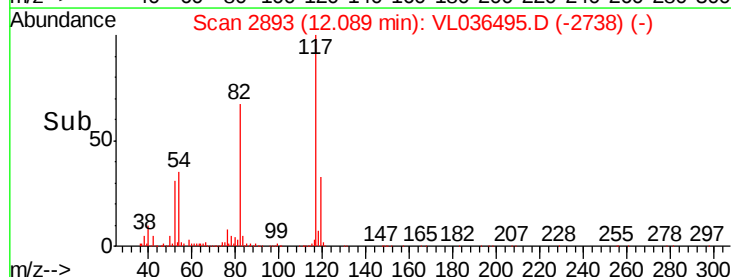
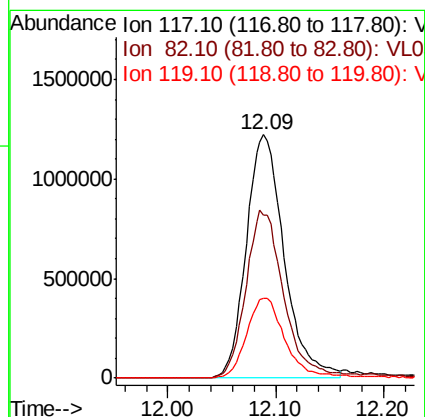
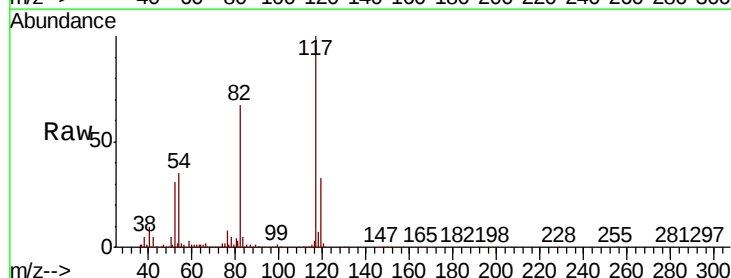
Tgt Ion: 117 Resp: 2982748

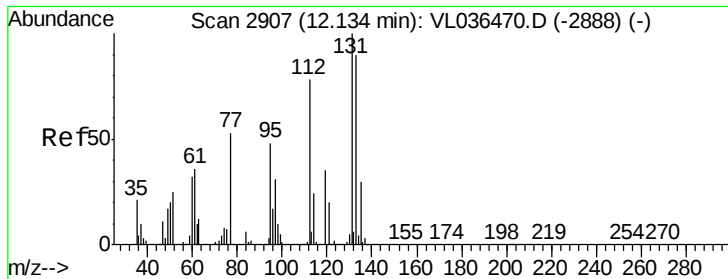
Ion Ratio Lower Upper

117 100

82 71.3 57.4 86.0

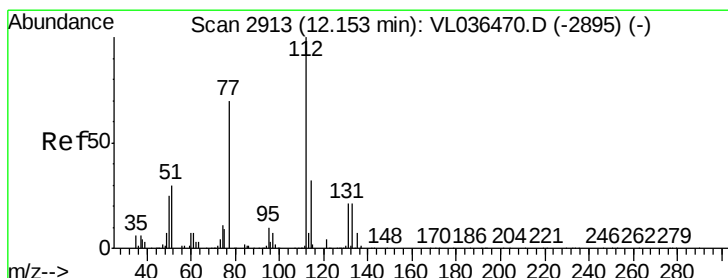
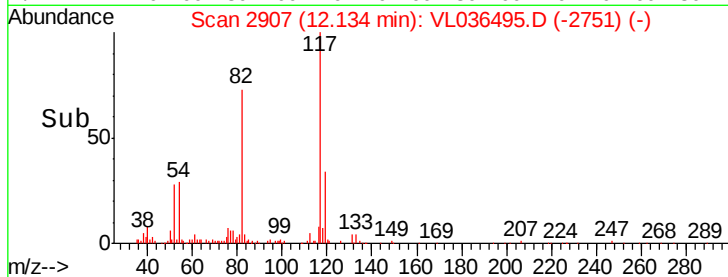
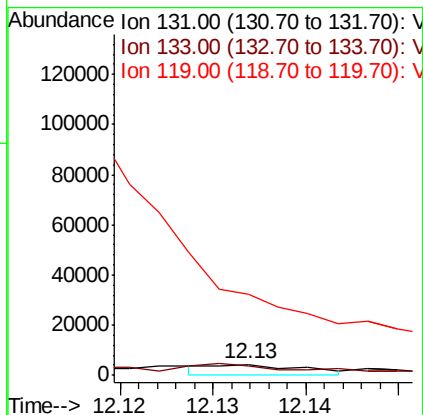
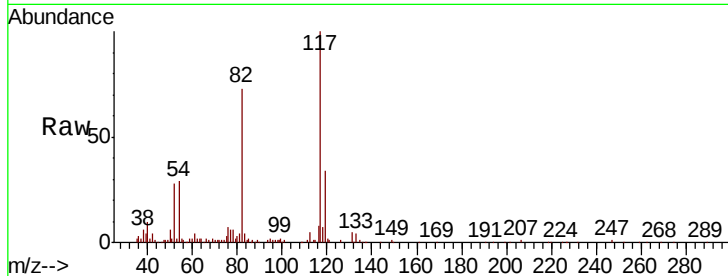
119 34.1 47.4 71.0#





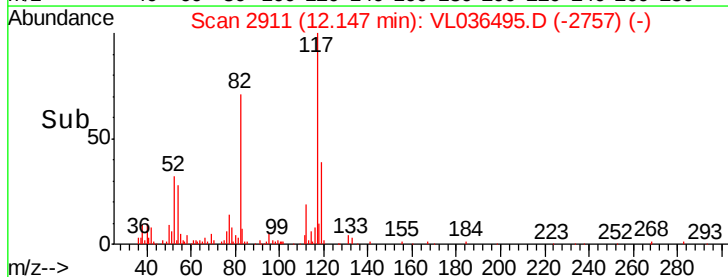
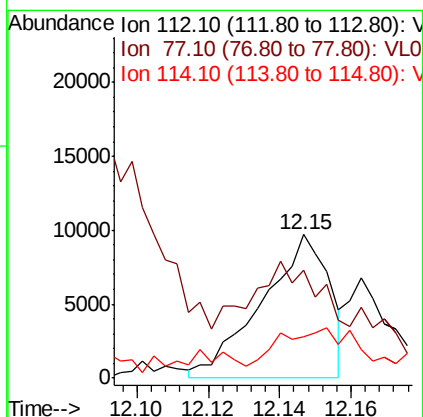
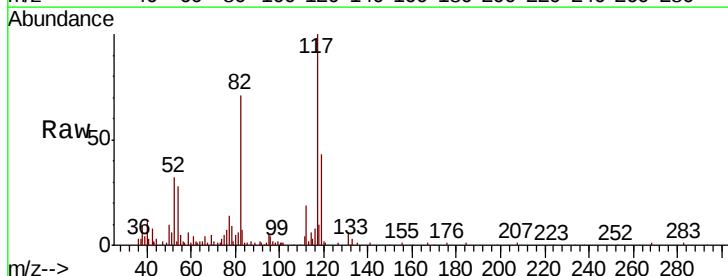
#56
 1,1,1,2-Tetrachloroethane
 Concen: 0.023 ppbv
 RT: 12.13 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 25 Mar 2021 20:44

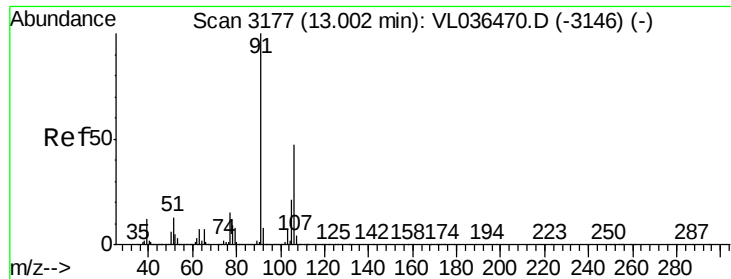
Tot Ion:131 Resp: 3100
 Ion Ratio Lower Upper
 131 100
 133 0.0 75.8 113.6#
 119 0.0 48.7 73.1#



#57
 Chlorobenzene
 Concen: 0.050 ppbv
 RT: 12.15 min Scan# 2911
 Delta R.T. -0.01 min
 Lab File: VL036495.D
 Acq: 25 Mar 2021 20:44

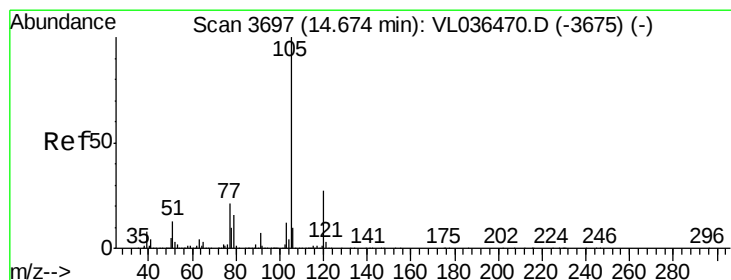
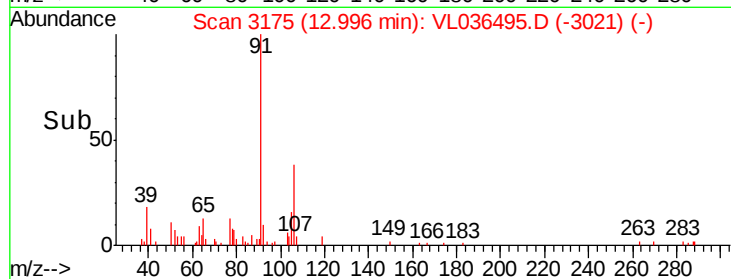
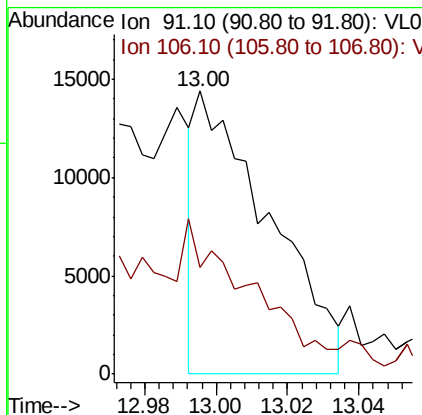
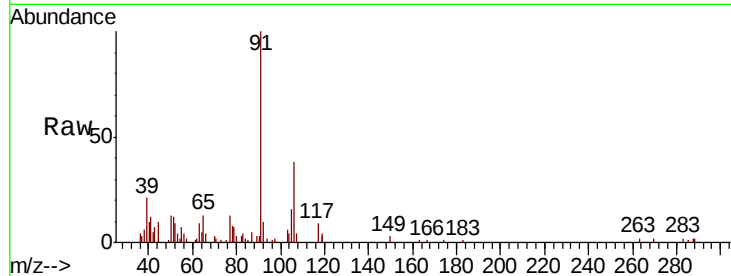
Tgt Ion:112 Resp: 12687
 Ion Ratio Lower Upper
 112 100
 77 36.2 56.0 84.0#
 114 20.7 29.0 35.4#





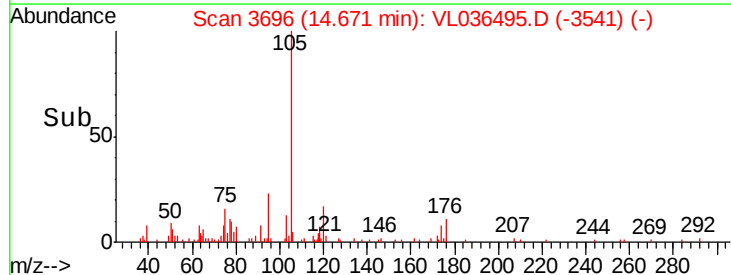
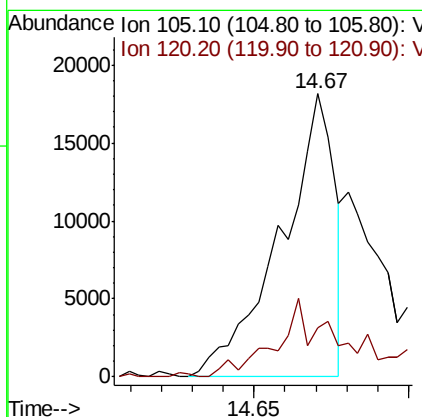
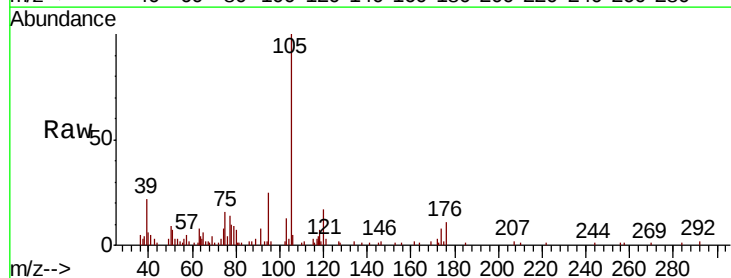
#59
m/p-Xylene
Concen: 0.054 ppbv
RT: 13.00
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 25 Mar 2021 20:44

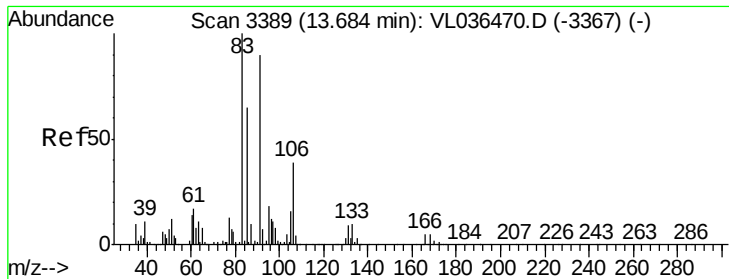
Tot Ion: 91 Resp: 20519
Ion Ratio Lower Upper
91 100
106 125.5 35.3 52.9#



#62
Isopropylbenzene
Concen: 0.044 ppbv
RT: 14.67 min Scan# 3696
Delta R.T. -0.00 min
Lab File: VL036495.D
Acq: 25 Mar 2021 20:44

Tgt Ion: 105 Resp: 21891
Ion Ratio Lower Upper
105 100
120 41.1 20.6 31.0#





#63

1,1,2,2-Tetrachloroethane

Concen: 0.047 ppbv

RT: 13.68

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 25 Mar 2021 20:44

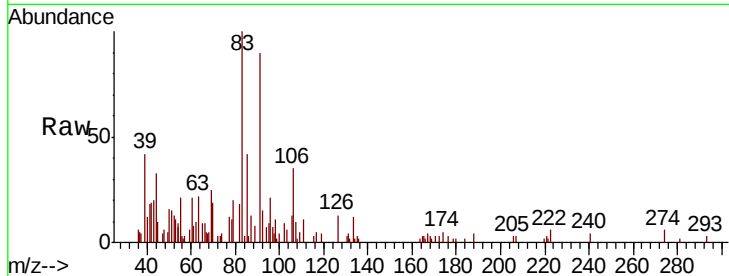
Tot Ion: 83 Resp: 13091

Ion Ratio Lower Upper

83 100

131 23.6 4.7 14.0#

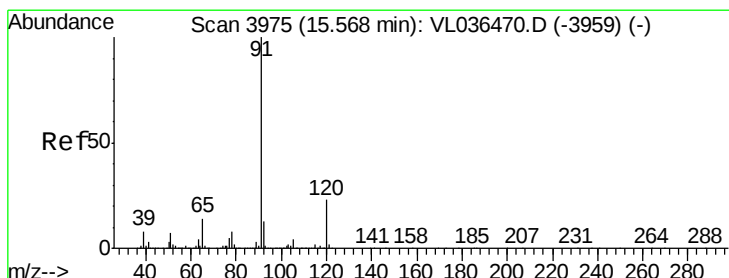
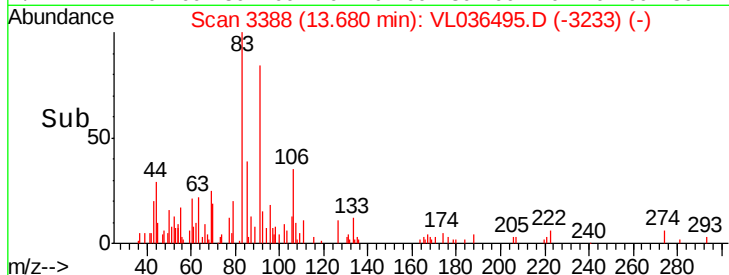
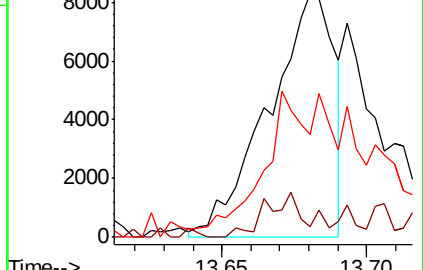
85 102.6 33.1 99.3#



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 0.035 ppbv

RT: 15.56 min Scan# 3973

Delta R.T. -0.01 min

Lab File: VL036495.D

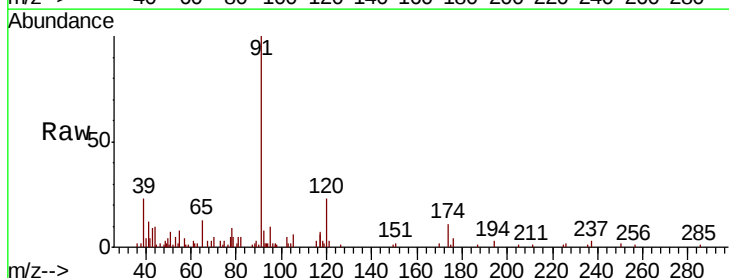
Acq: 25 Mar 2021 20:44

Tgt Ion:120 Resp: 4211

Ion Ratio Lower Upper

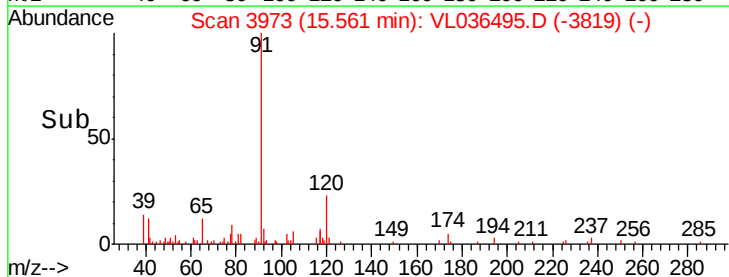
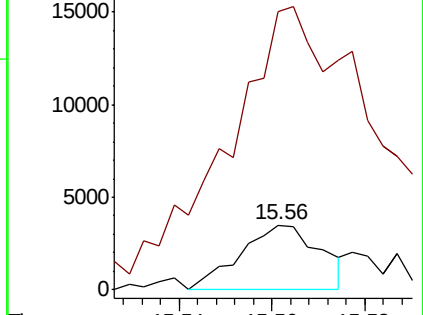
120 100

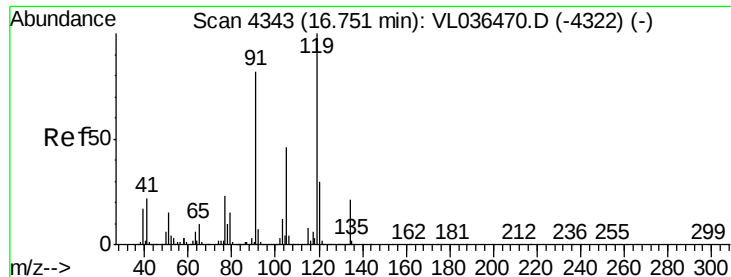
91 939.9 377.4 566.2#



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 0.028 ppbv

RT: 16.74

Delta R.T. MSVOA_L

Lab File:

Acq: 25 Mar 2021 20:44

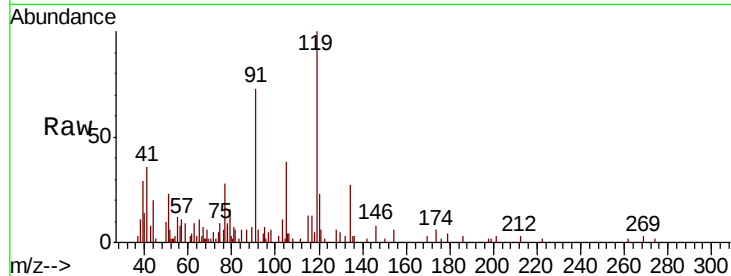
Tot Ion: 119 Resp: 12001

Ion Ratio Lower Upper

119 100

91 0.0 67.5 101.3#

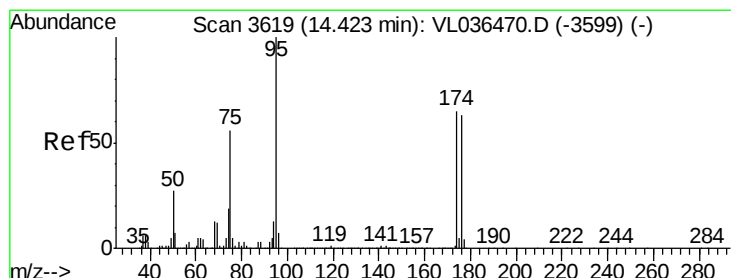
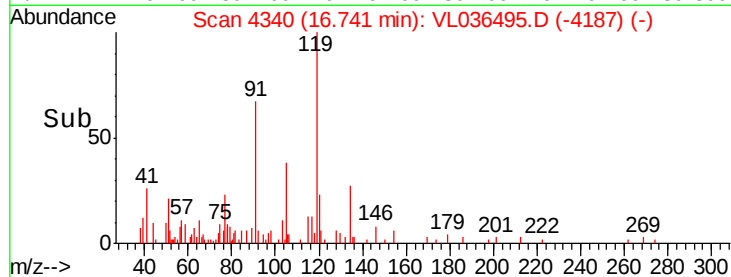
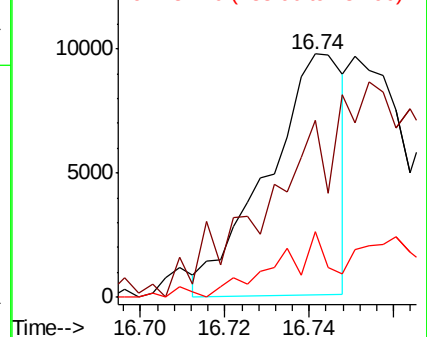
134 49.4 15.8 23.8#



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.584 ppbv

RT: 14.42 min Scan# 3618

Delta R.T. -0.00 min

Lab File: VL036495.D

Acq: 25 Mar 2021 20:44

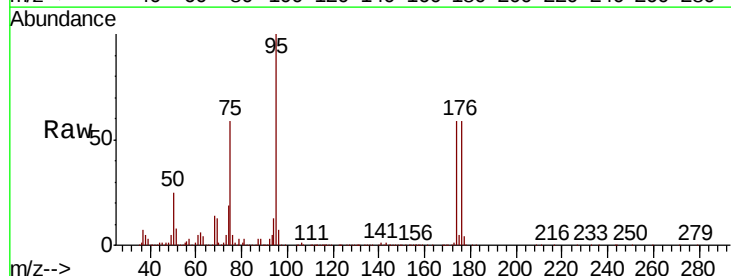
Tgt Ion: 95 Resp: 2278491

Ion Ratio Lower Upper

95 100

174 65.3 51.0 76.6

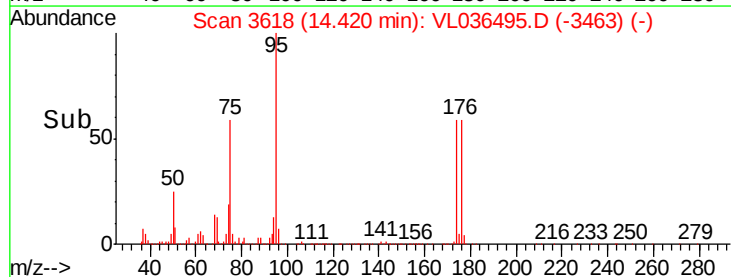
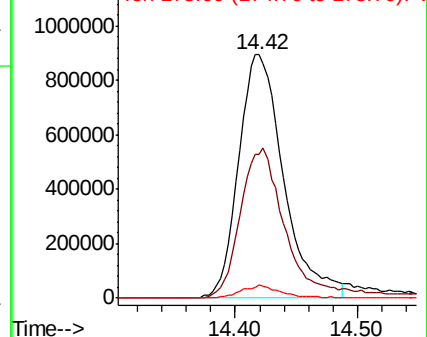
175 5.0 3.9 5.9

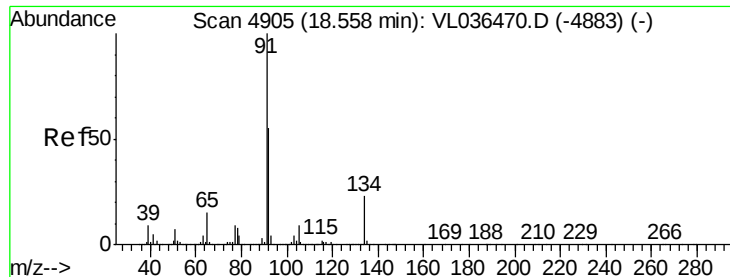


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#70

n-Butylbenzene

Concen: 0.021 ppbv

RT: 18.56 min

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 25 Mar 2021 20:44

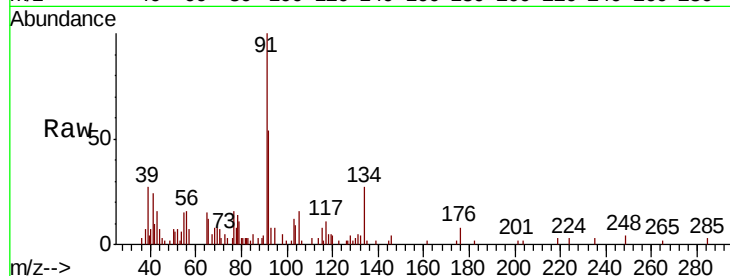
Tot Ion: 91 Resp: 10194

Ion Ratio Lower Upper

91 100

92 140.2 43.8 65.8#

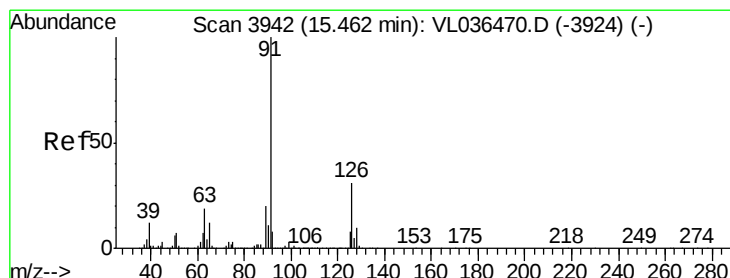
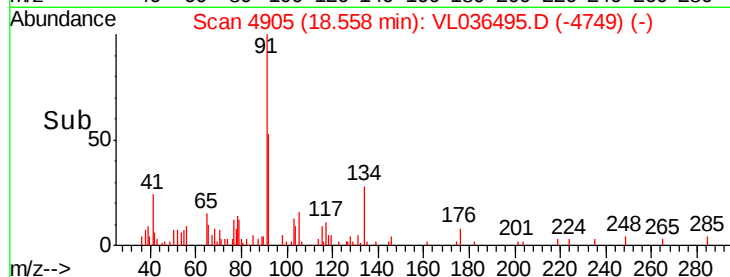
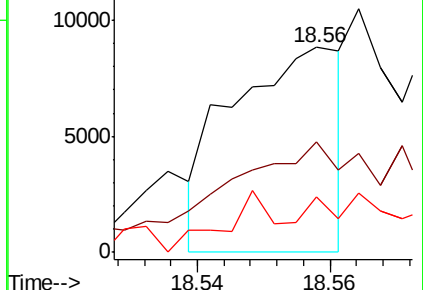
134 60.1 18.0 27.0#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Ion 134.20 (133.90 to 134.90): VL0



#71

2-Chlorotoluene

Concen: 0.022 ppbv

RT: 15.46 min Scan# 3943

Delta R.T. 0.00 min

Lab File: VL036495.D

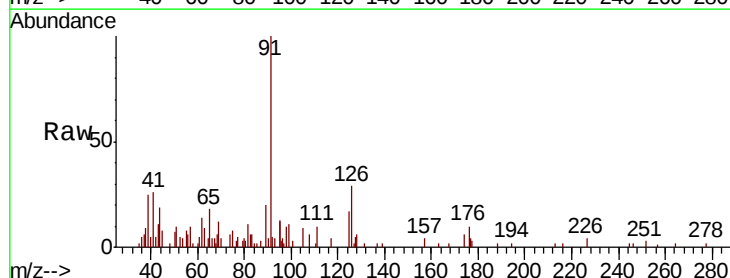
Acq: 25 Mar 2021 20:44

Tgt Ion: 91 Resp: 8305

Ion Ratio Lower Upper

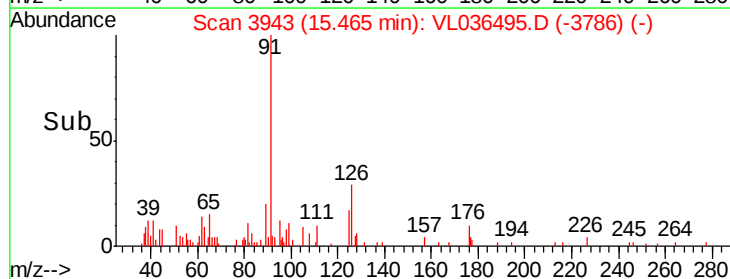
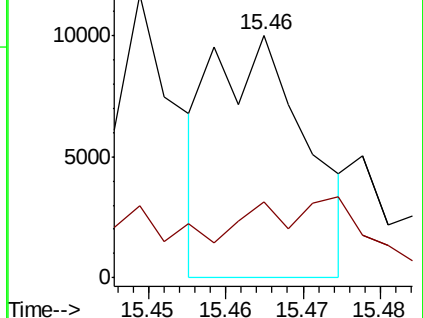
91 100

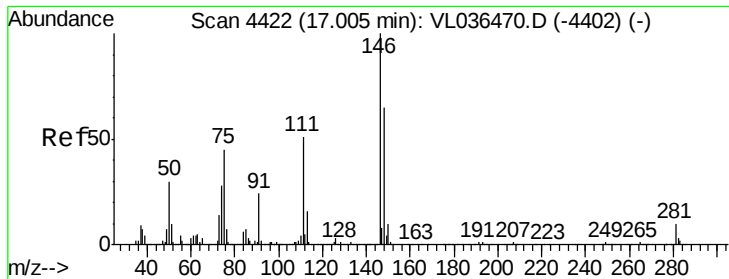
126 0.0 12.1 48.5#



Abundance Ion 91.10 (90.80 to 91.80): VL0

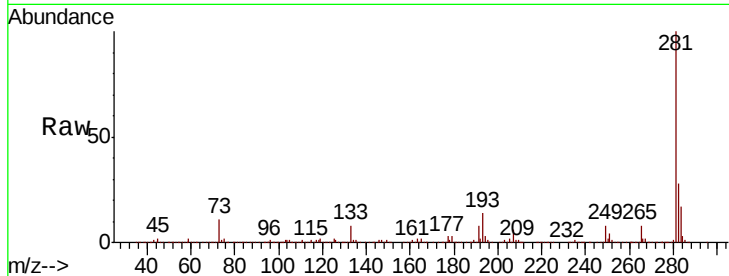
Ion 126.10 (125.80 to 126.80): VL0





#75
 1,3-Dichlorobenzene
 Concen: 0.024 ppbv
 RT: 17.00 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 25 Mar 2021 20:44

Tot Ion	Ratio	Lower	Upper
146	100		
111	0.0	24.5	73.5#
148	0.0	32.3	96.9#

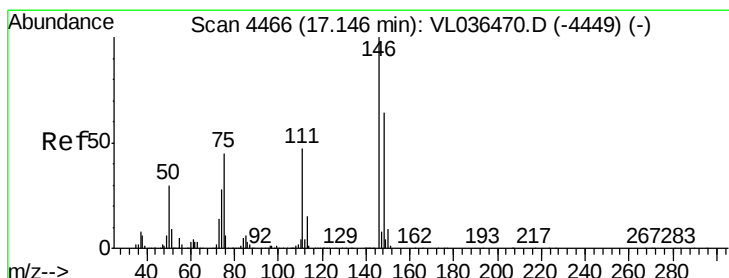
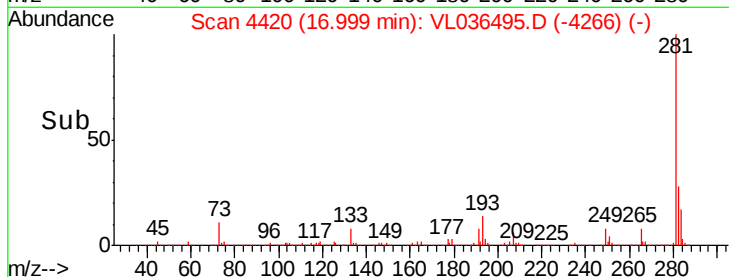
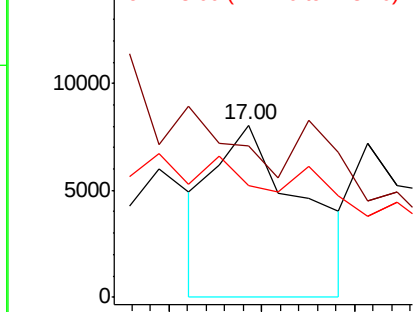


Abundance

Ion 146.00 (145.70 to 146.70): V

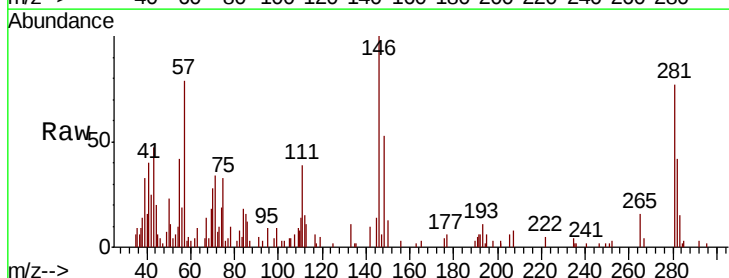
Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76
 1,4-Dichlorobenzene
 Concen: 0.048 ppbv
 RT: 17.14 min Scan# 4465
 Delta R.T. -0.00 min
 Lab File: VL036495.D
 Acq: 25 Mar 2021 20:44

Tgt Ion	Ratio	Lower	Upper
146	100		
111	0.0	24.3	72.8#
148	122.8	33.0	98.9#

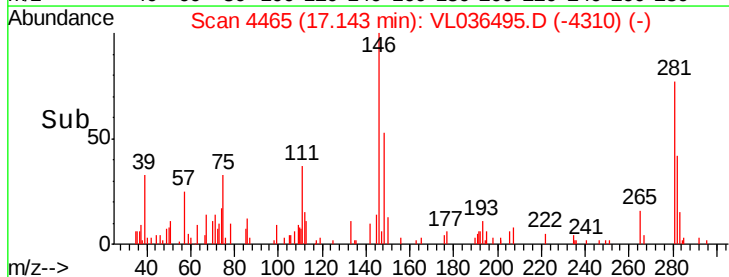
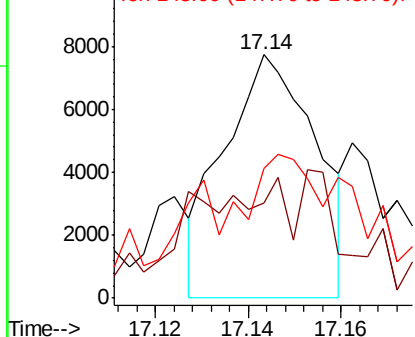


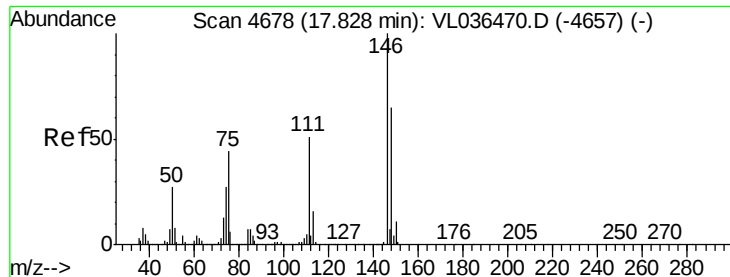
Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

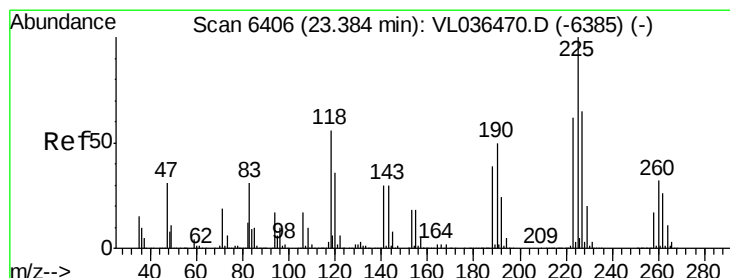
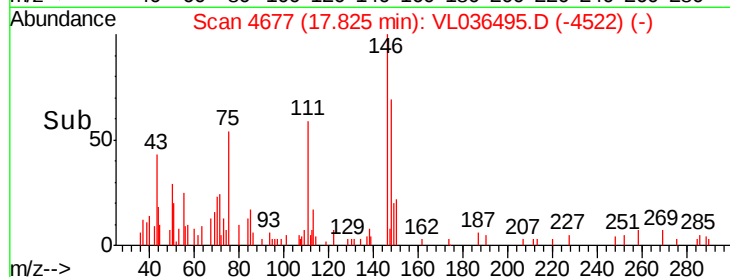
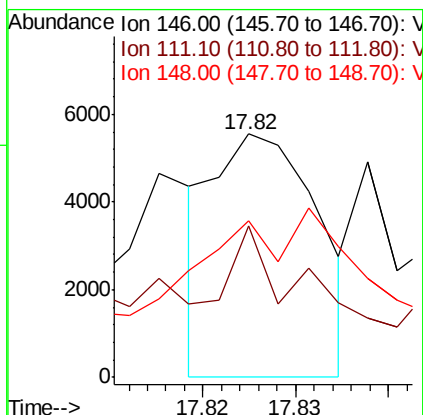
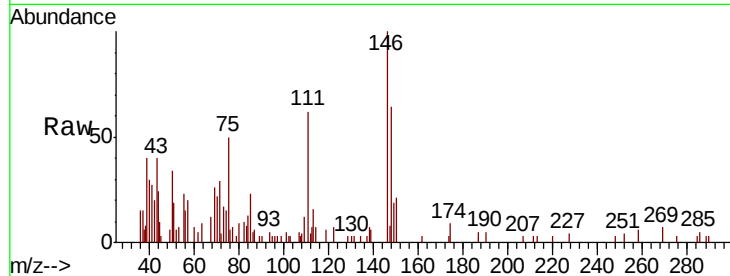
Ion 148.00 (147.70 to 148.70): V





#77
 1,2-Dichlorobenzene
 Concen: 0.020 ppbv
 RT: 17.82 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 25 Mar 2021 20:44

Tot Ion:146 Resp: 4329
 Ion Ratio Lower Upper
 146 100
 111 173.4 25.5 76.5#
 148 0.0 32.9 98.6#



#78
 Hexachloro-1,3-Butadiene
 Concen: 0.020 ppbv
 RT: 23.38 min Scan# 6404
 Delta R.T. -0.01 min
 Lab File: VL036495.D
 Acq: 25 Mar 2021 20:44

Tgt Ion:225 Resp: 3875
 Ion Ratio Lower Upper
 225 100
 223 0.0 50.6 75.8#
 227 0.0 52.2 78.2#

