

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032521\
 Data File : VL036498.D
 Acq On : 25 Mar 2021 22:47
 Operator :
 Sample : M1748-33
 Misc : 400ml/MSVOA L
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 26 03:53:34 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	1535331	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3531490	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3129242	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	2470246	9.90	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.00%

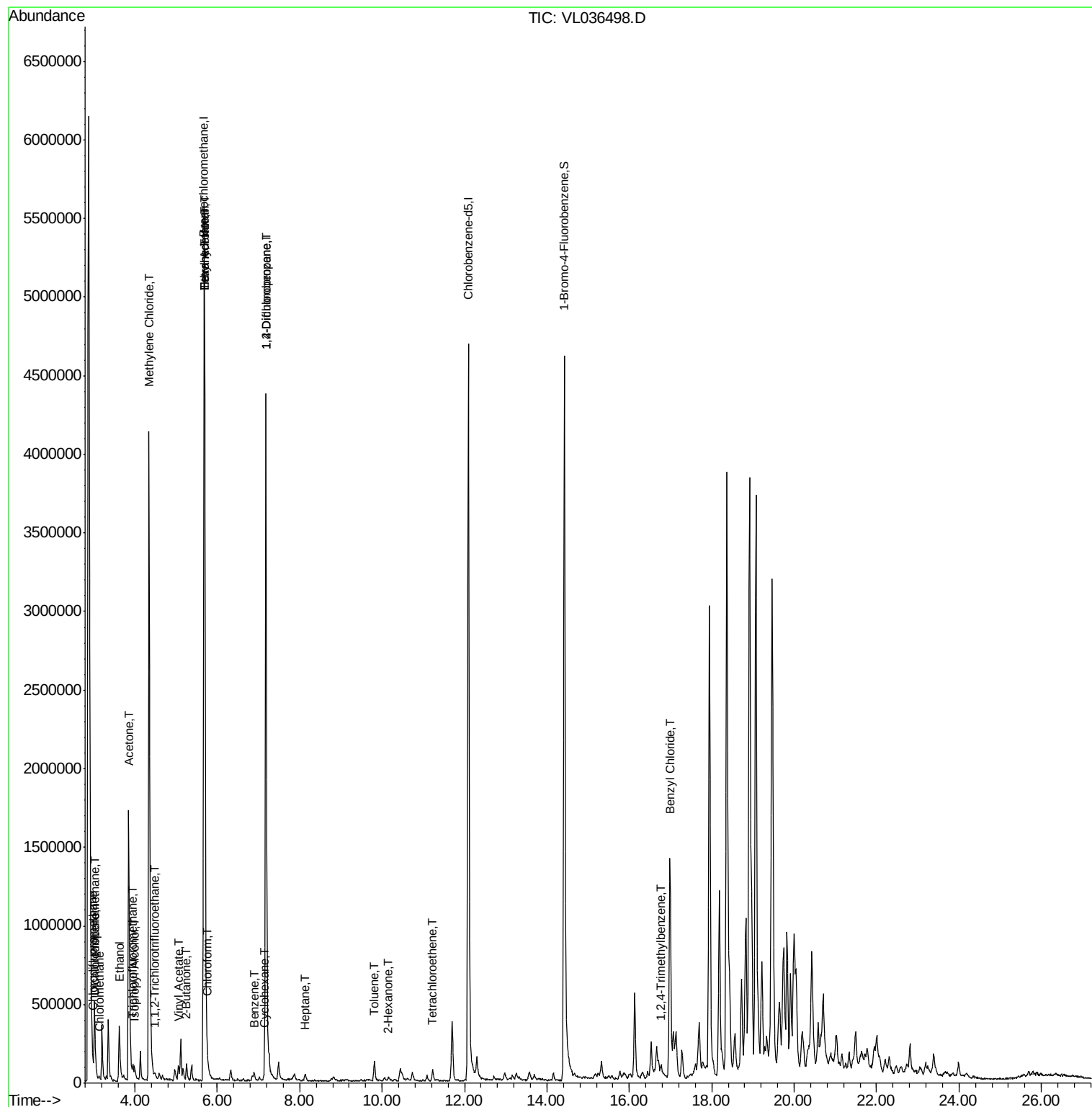
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.04	85	26081	0.104	ppbv 98
3) Chlorodifluoromethane	2.98	51	82387	0.287	ppbv # 91
4) Chloromethane	3.14	50	17849	0.176	ppbv # 82
9) Propene	3.02	41	131425	1.437	ppbv # 71
10) Heptane	8.13	43	10397	0.045	ppbv # 40
11) Trichlorofluoromethane	3.95	101	46737	0.183	ppbv # 82
12) 1,1,2-Trichlorotrifluoroet	4.48	101	3657	0.022	ppbv # 11
13) Ethanol	3.62	45	451934	41.500	ppbv 98
15) Acetone	3.85	43	2299634	15.218	ppbv 99
19) Isopropyl Alcohol	3.99	45	58376	0.702	ppbv # 89
20) Methylene Chloride	4.34	84	1616154	22.843	ppbv 91
23) Vinyl Acetate	5.07	43	19837	0.077	ppbv # 1
25) Ethyl Acetate	5.69	43	1504882	4.189	ppbv # 78
26) Hexane	5.69	57	2025833	12.151	ppbv # 47
29) Chloroform	5.76	83	5790	0.022	ppbv 84
30) Cyclohexane	7.13	84	3288	0.024	ppbv # 1
34) 2-Butanone	5.25	43	129756	0.753	ppbv 97
36) Benzene	6.90	78	27354	0.084	ppbv # 79
39) 1,2-Dichloropropane	7.18	63	979598	7.414	ppbv # 24
41) Tetrahydrofuran	5.69	42	835234	10.508	ppbv # 53
51) 2-Hexanone	10.14	43	5530	0.044	ppbv # 30
52) Tetrachloroethene	11.23	164	6547	0.055	ppbv # 49
53) Toluene	9.82	91	52305	0.151	ppbv # 30
66) Benzyl Chloride	16.99	91	1292	0.026	ppbv # 1
74) 1,2,4-Trimethylbenzene	16.77	105	30232	0.072	ppbv # 68

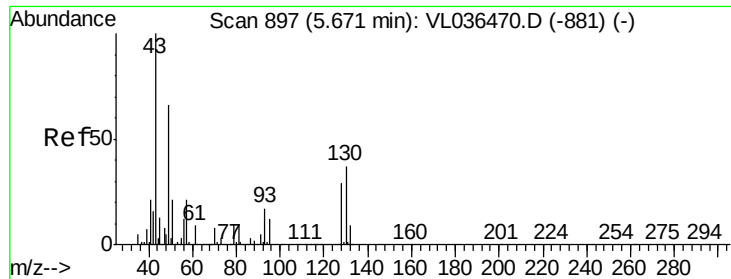
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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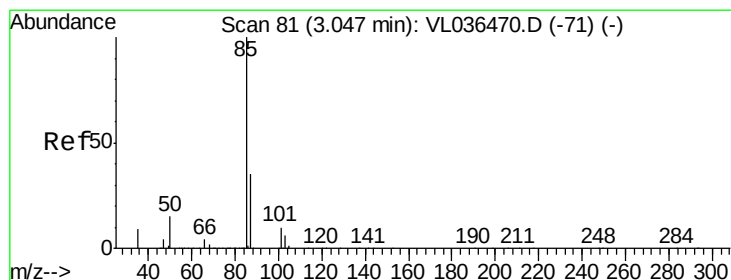
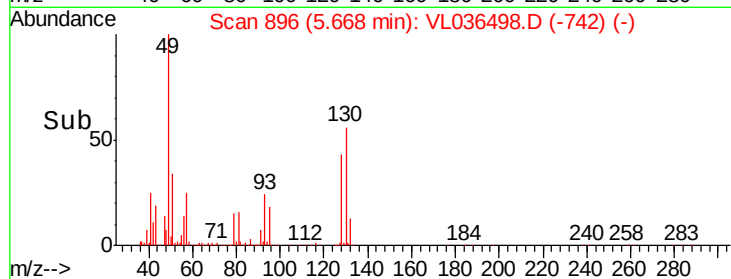
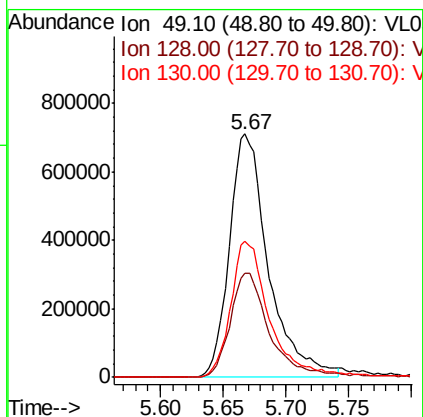
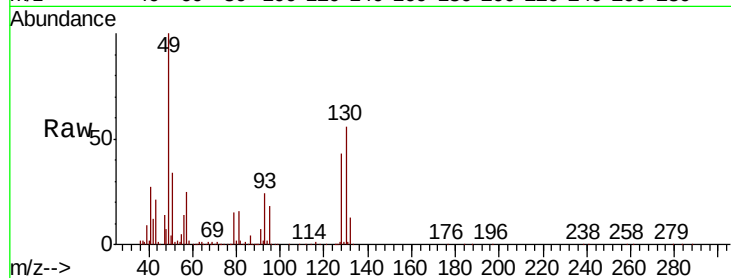
Quant Time: Mar 26 03:53:34 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
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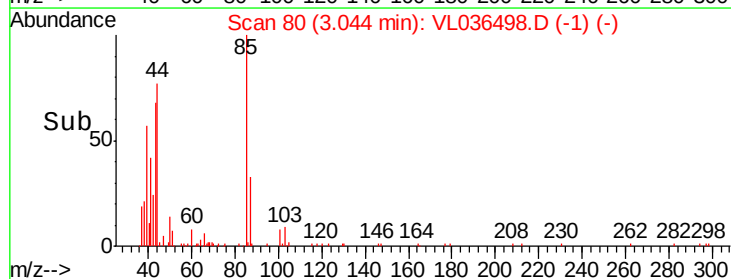
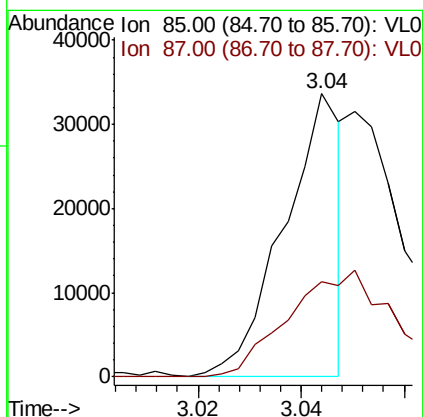
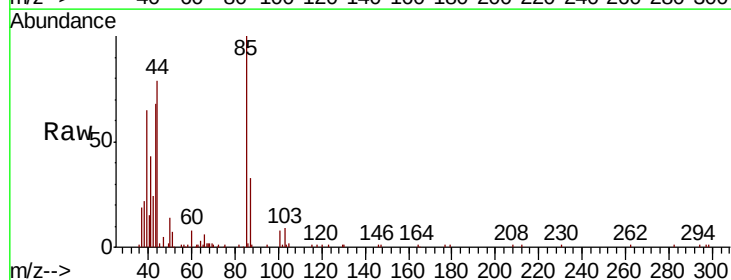
#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.67
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 25 Mar 2021 22:47

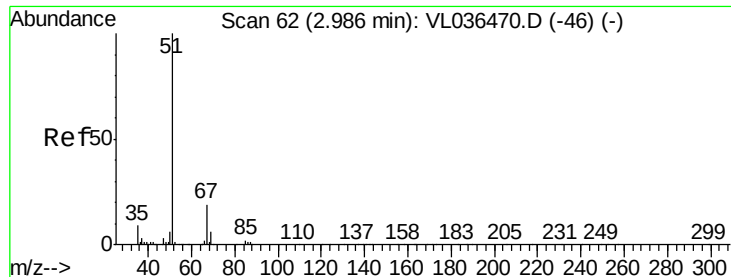
Tot Ion: 49 Resp: 1535331
 Ion Ratio Lower Upper
 49 100
 128 44.2 23.5 70.6
 130 56.4 29.1 87.4



#2
 Dichlorodifluoromethane
 Concen: 0.104 ppbv
 RT: 3.04 min Scan# 80
 Delta R.T. -0.00 min
 Lab File: VL036498.D
 Acq: 25 Mar 2021 22:47

Tgt Ion: 85 Resp: 26081
 Ion Ratio Lower Upper
 85 100
 87 33.5 27.8 41.8





#3

Chlorodifluoromethane

Concen: 0.287 ppbv

RT: 2.98 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

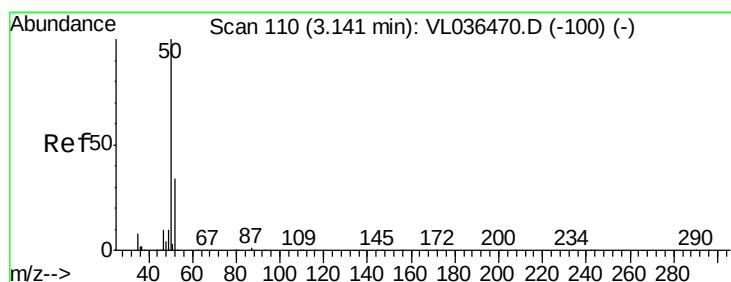
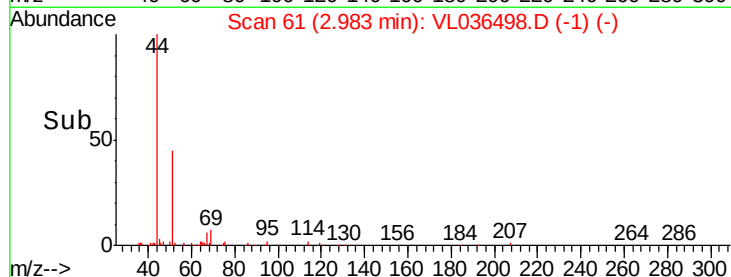
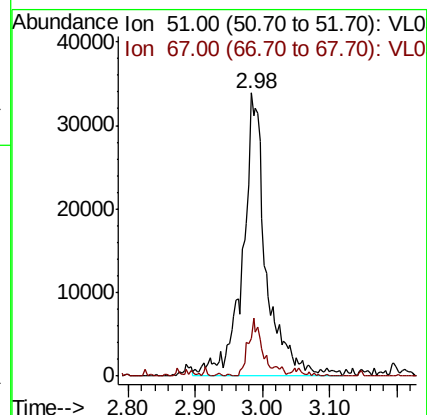
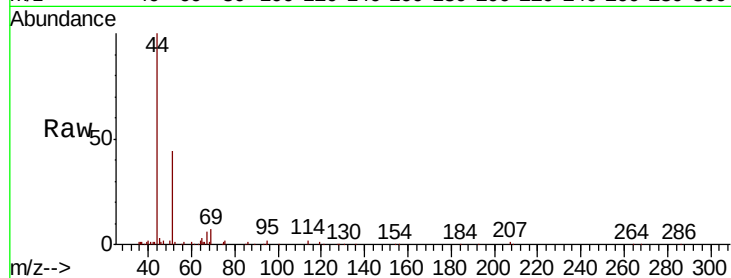
Acq: 25 Mar 2021 22:47

Tot Ion: 51 Resp: 82387

Ion Ratio Lower Upper

51 100

67 14.2 14.7 22.1#



#4

Chloromethane

Concen: 0.176 ppbv

RT: 3.14 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL036498.D

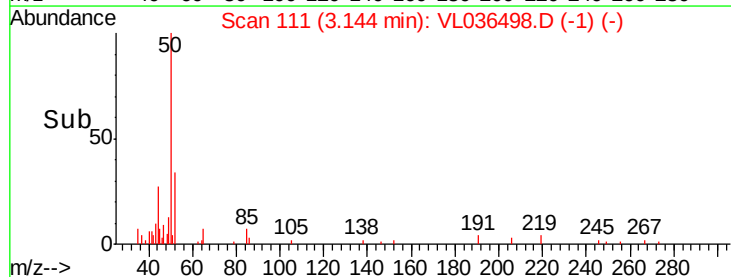
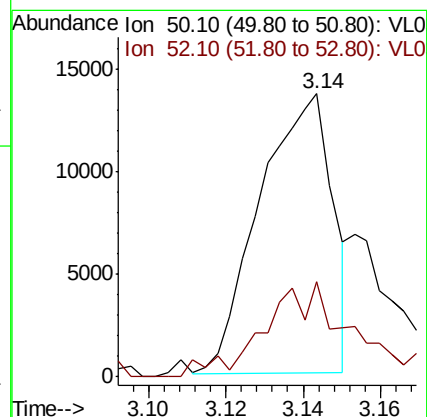
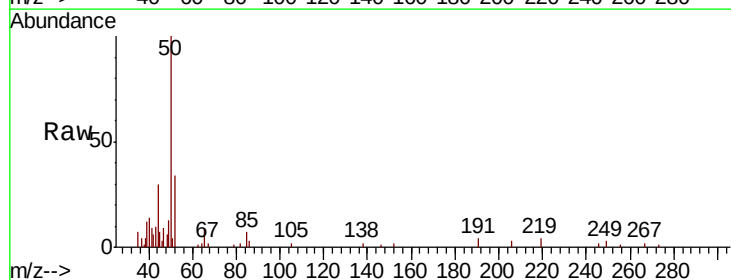
Acq: 25 Mar 2021 22:47

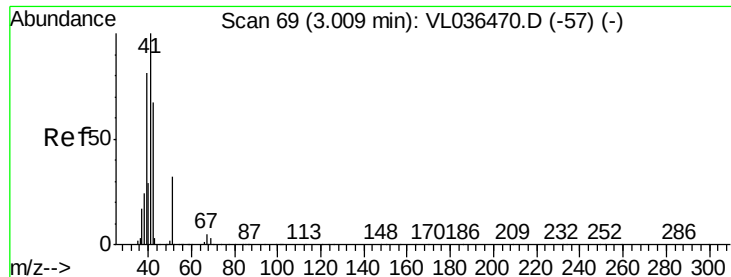
Tgt Ion: 50 Resp: 17849

Ion Ratio Lower Upper

50 100

52 23.7 27.0 40.6#





#9

Propene

Concen: 1.437 ppbv

RT: 3.02 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

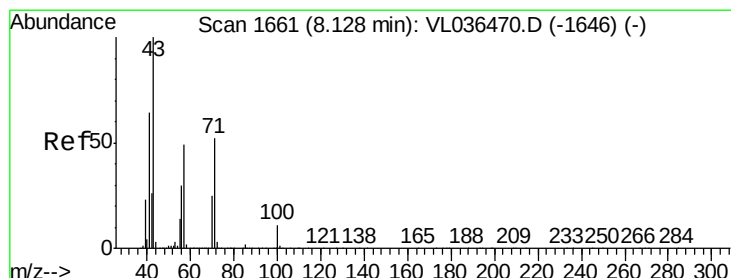
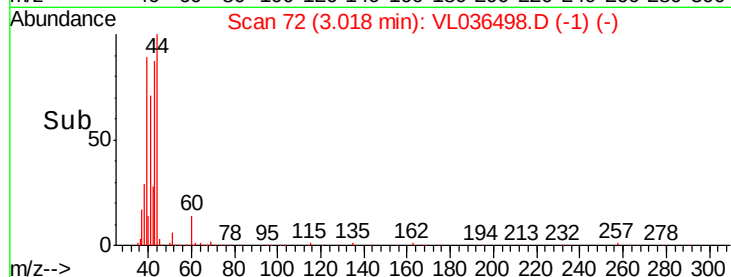
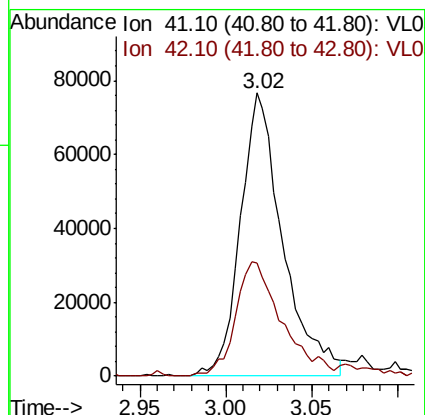
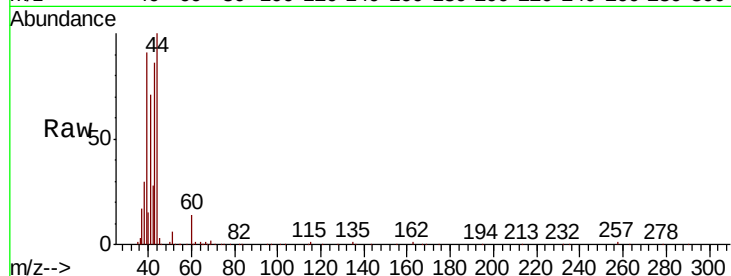
Acq: 25 Mar 2021 22:47

Tot Ion: 41 Resp: 131425

Ion Ratio Lower Upper

41 100

42 46.9 57.0 85.4#



#10

Heptane

Concen: 0.045 ppbv

RT: 8.13 min Scan# 1662

Delta R.T. 0.00 min

Lab File: VL036498.D

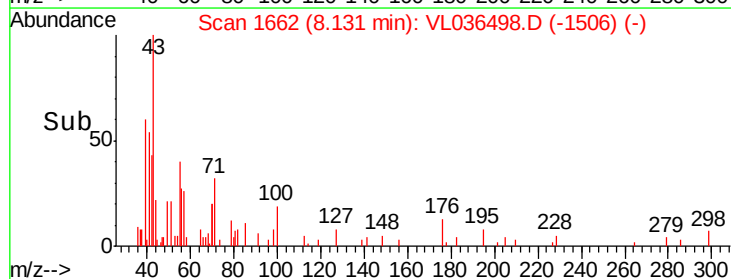
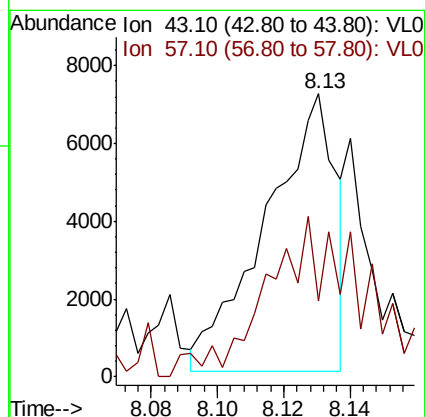
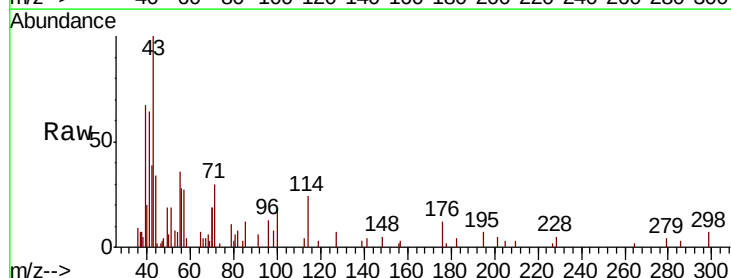
Acq: 25 Mar 2021 22:47

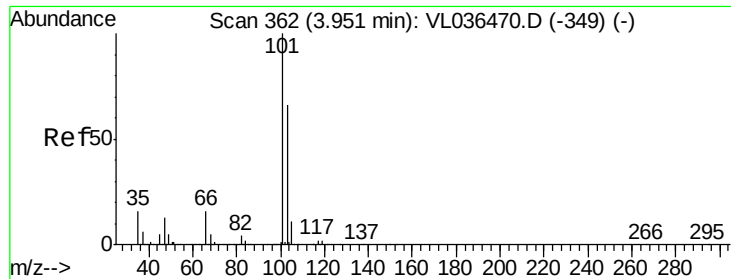
Tgt Ion: 43 Resp: 10397

Ion Ratio Lower Upper

43 100

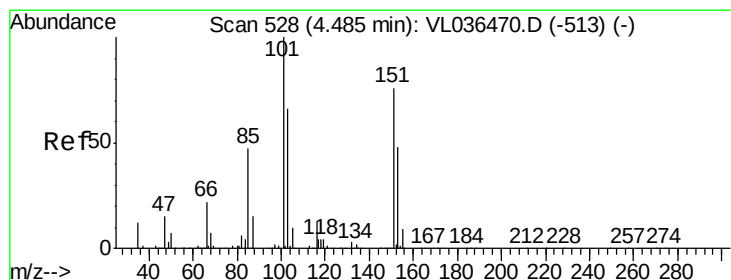
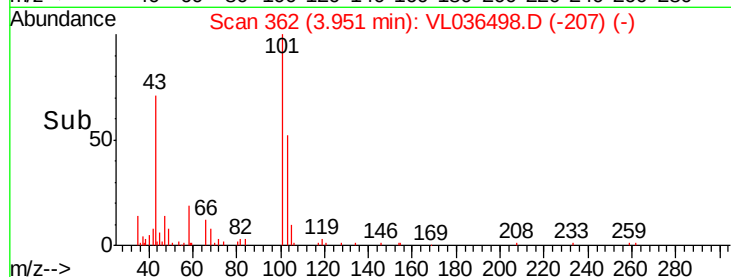
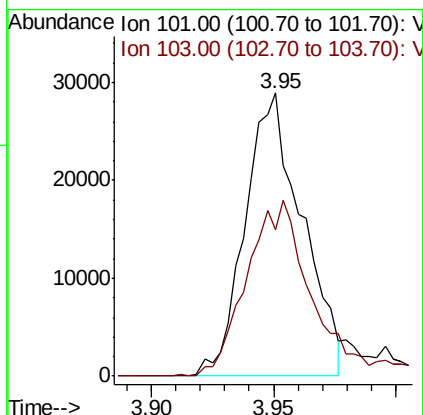
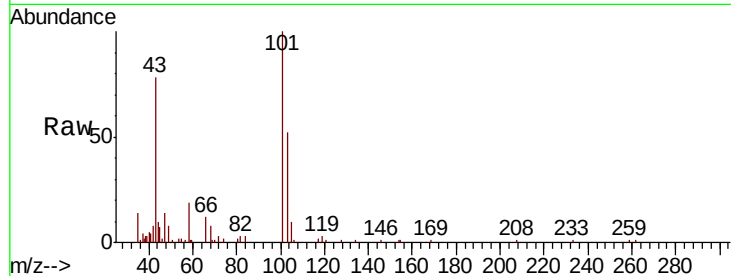
57 89.5 39.0 58.6#





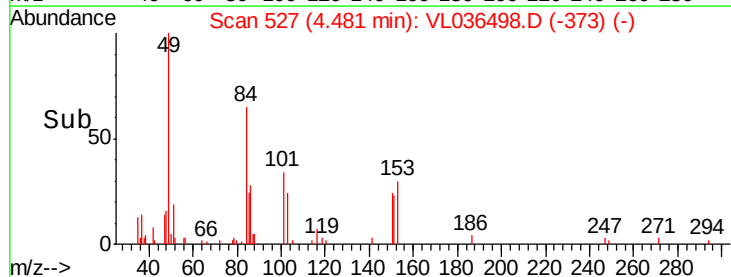
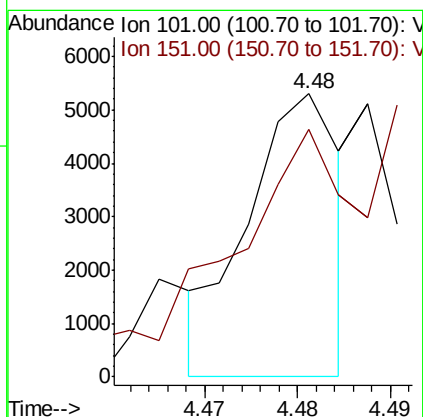
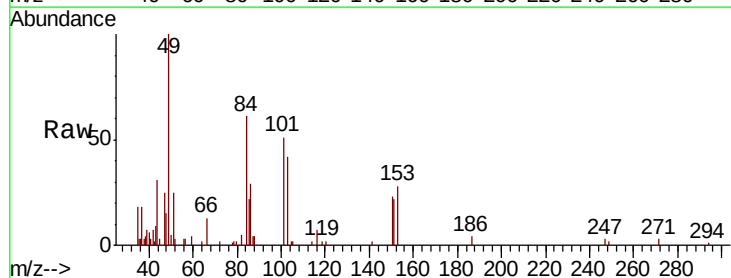
#11
 Trichlorofluoromethane
 Concen: 0.183 ppbv
 RT: 3.95 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 25 Mar 2021 22:47

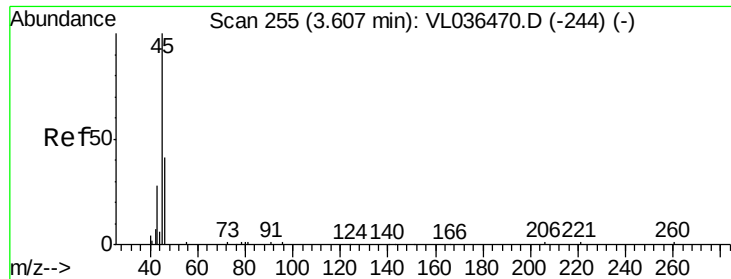
Tot Ion:101 Resp: 46737
 Ion Ratio Lower Upper
 101 100
 103 51.6 52.5 78.7#



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.022 ppbv
 RT: 4.48 min Scan# 527
 Delta R.T.: -0.00 min
 Lab File: VL036498.D
 Acq: 25 Mar 2021 22:47

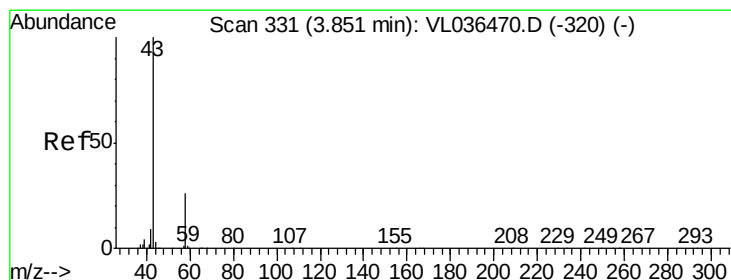
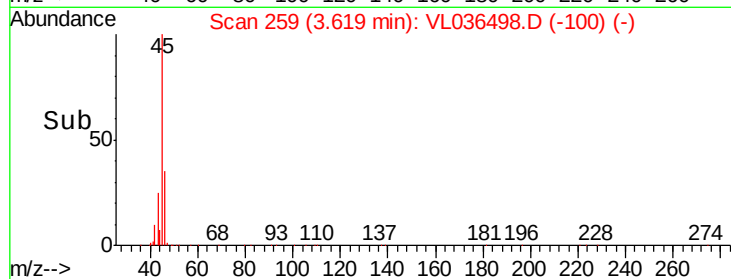
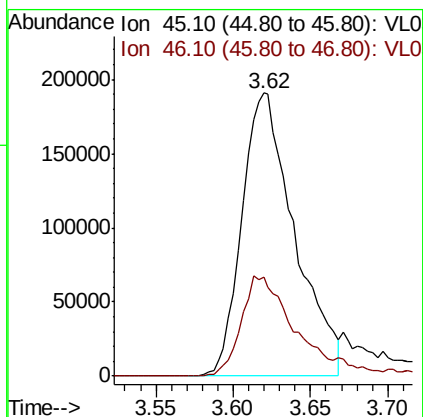
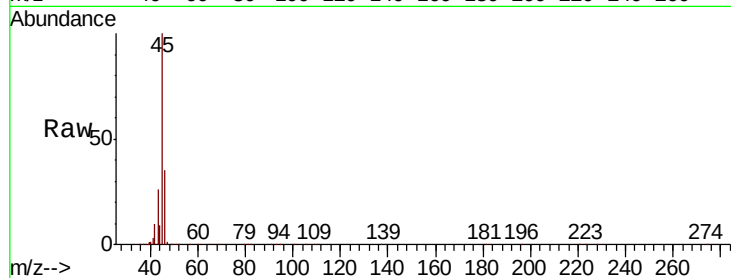
Tgt Ion:101 Resp: 3657
 Ion Ratio Lower Upper
 101 100
 151 0.0 60.9 91.3#





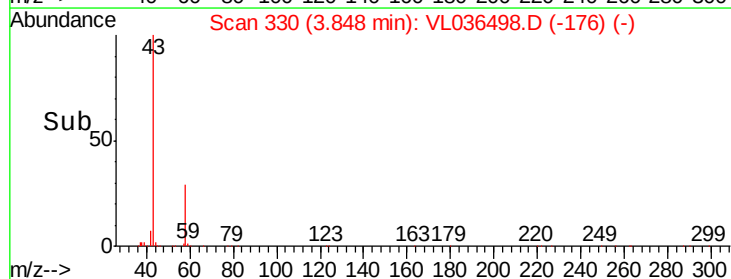
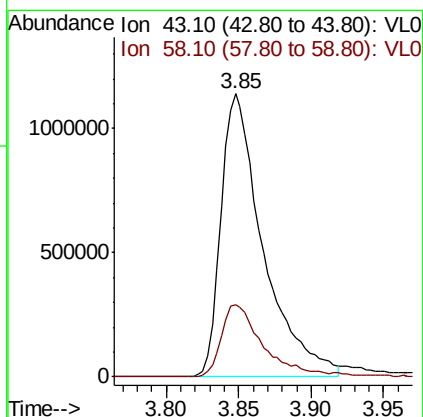
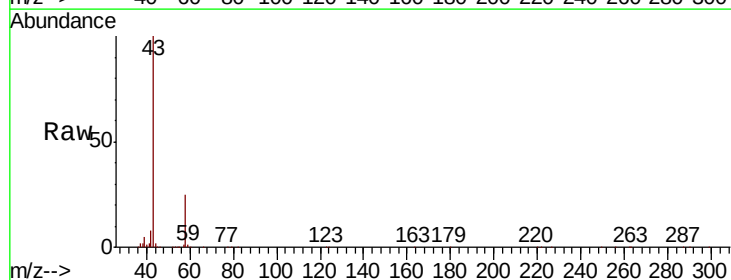
#13
Ethanol
Concen: 41.500 ppbv
RT: 3.62
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 25 Mar 2021 22:47

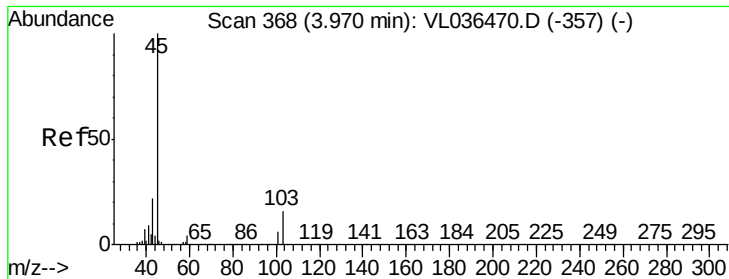
Tot Ion: 45 Resp: 451934
Ion Ratio Lower Upper
45 100
46 40.0 16.6 66.2



#15
Acetone
Concen: 15.218 ppbv
RT: 3.85 min Scan# 330
Delta R.T. -0.00 min
Lab File: VL036498.D
Acq: 25 Mar 2021 22:47

Tgt Ion: 43 Resp: 2299634
Ion Ratio Lower Upper
43 100
58 26.0 21.2 31.8





#19

Isopropyl Alcohol

Concen: 0.702 ppbv

RT: 3.99 Instrument:

Delta R.T. MSVOA.L

Lab File: ClientSampleId:

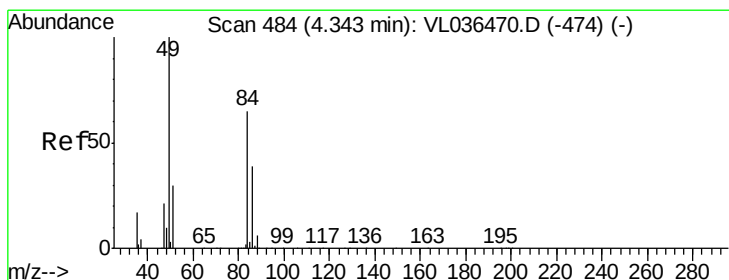
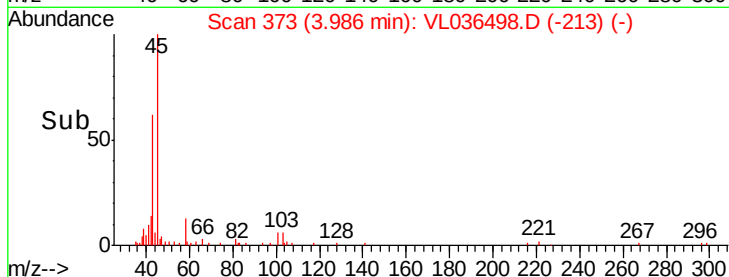
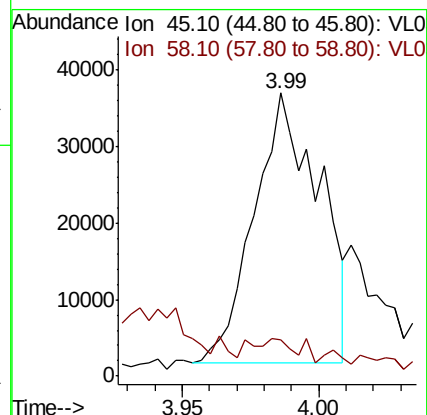
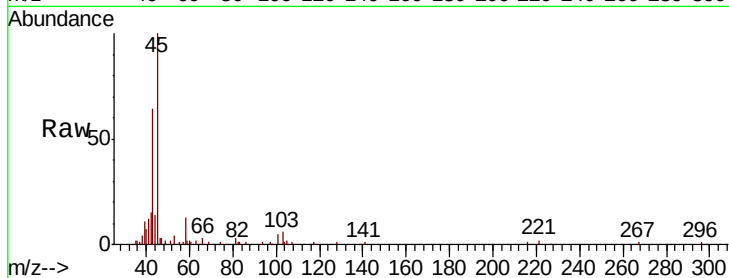
Acq: 25 Mar 2021 22:47

Tot Ion: 45 Resp: 58376

Ion Ratio Lower Upper

45 100

58 0.0 2.9 4.3#



#20

Methylene Chloride

Concen: 22.843 ppbv

RT: 4.34 min Scan# 484

Delta R.T. -0.00 min

Lab File: VL036498.D

Acq: 25 Mar 2021 22:47

Tgt Ion: 84 Resp: 1616154

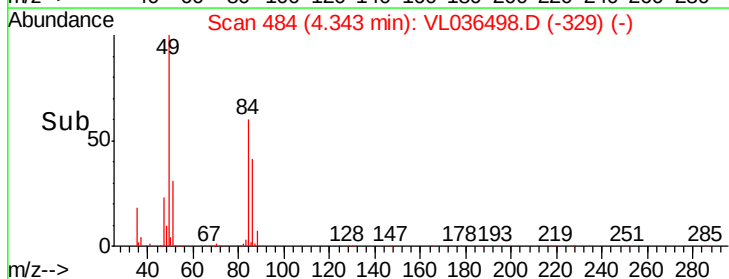
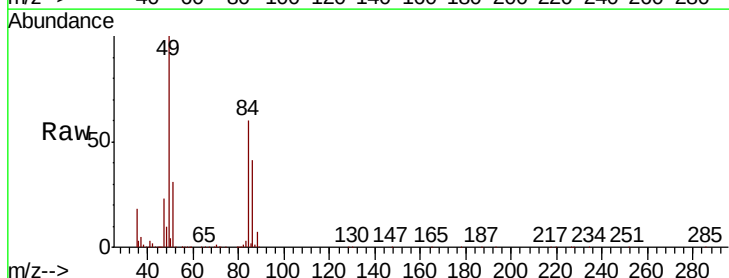
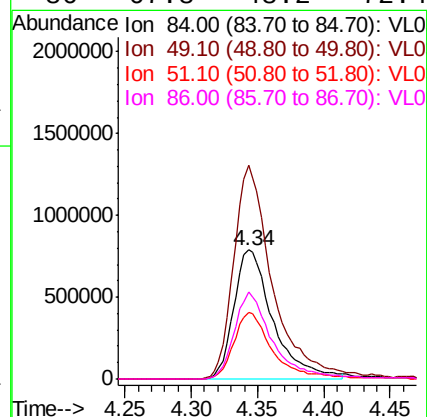
Ion Ratio Lower Upper

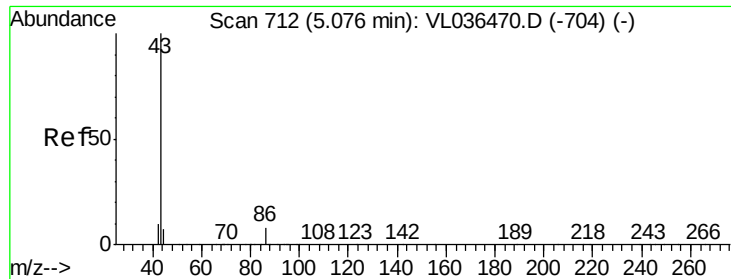
84 100

49 165.3 122.9 184.3

51 51.7 36.9 55.3

86 67.8 48.2 72.4





#23

Vinyl Acetate

Concen: 0.077 ppbv

RT: 5.07 Instrument:

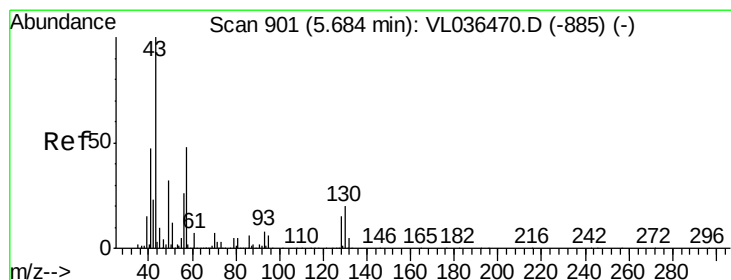
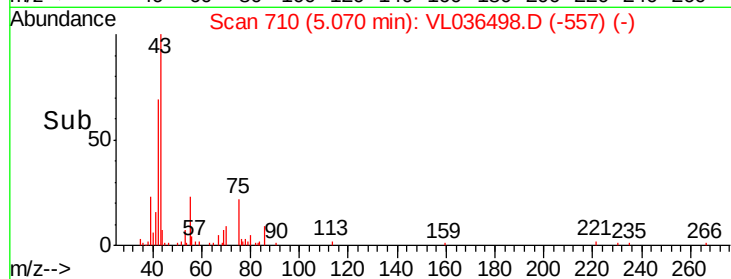
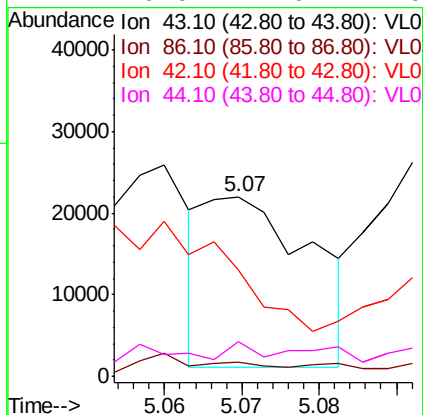
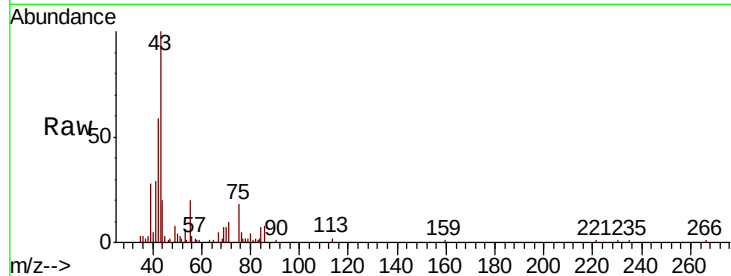
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 25 Mar 2021 22:47

Tot Ion: 43 Resp: 19837

Ion	Ratio	Lower	Upper
43	100		
86	5.9	5.4	8.0
42	82.7	8.5	12.7#
44	20.0	4.6	7.0#



#25

Ethyl Acetate

Concen: 4.189 ppbv

RT: 5.69 min Scan# 902

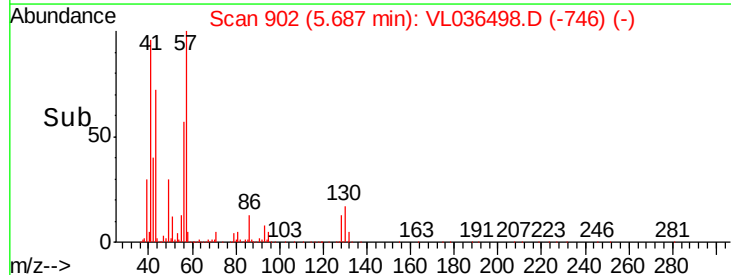
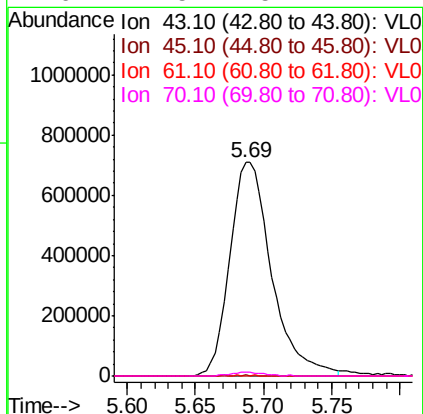
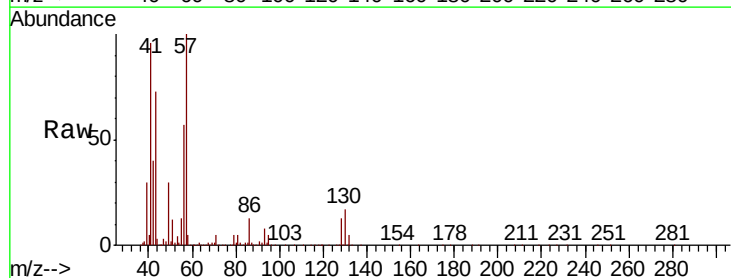
Delta R.T. 0.00 min

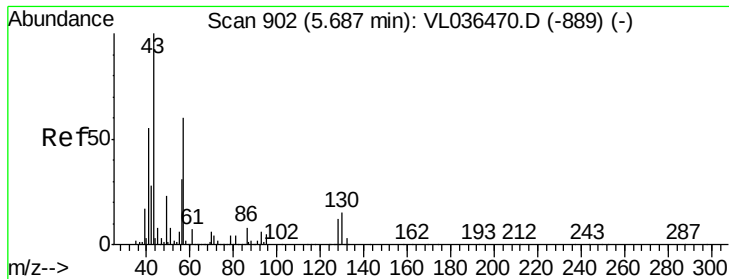
Lab File: VL036498.D

Acq: 25 Mar 2021 22:47

Tgt Ion: 43 Resp: 1504882

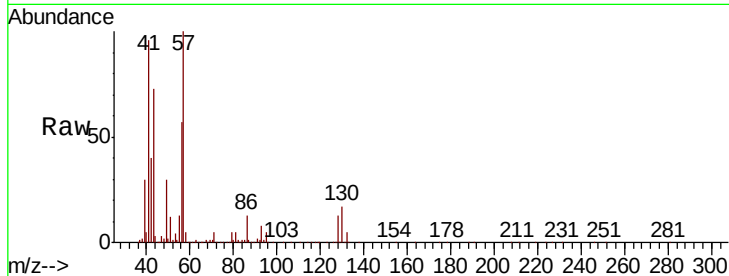
Ion	Ratio	Lower	Upper
43	100		
45	0.4	7.9	11.9#
61	0.3	7.4	11.2#
70	1.5	5.1	7.7#



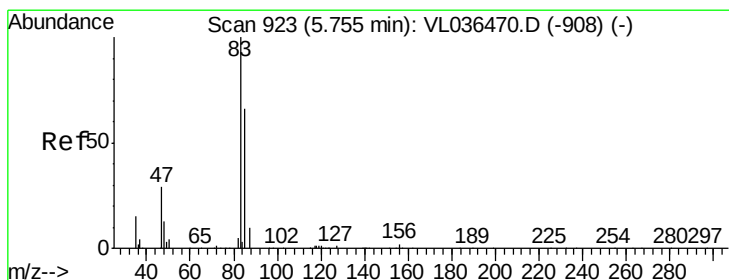
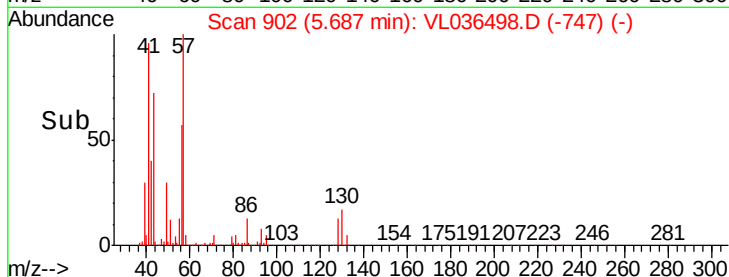
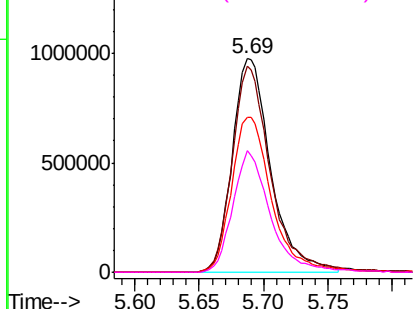


#26
Hexane
Concen: 12.151 ppbv
RT: 5.69
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId:
Acq: 25 Mar 2021 22:47

Tot Ion:	57	Resp:	2025833
Ion	Ratio	Lower	Upper
57	100		
41	97.7	77.2	115.8
43	76.2	173.8	260.6#
56	55.9	43.8	65.6

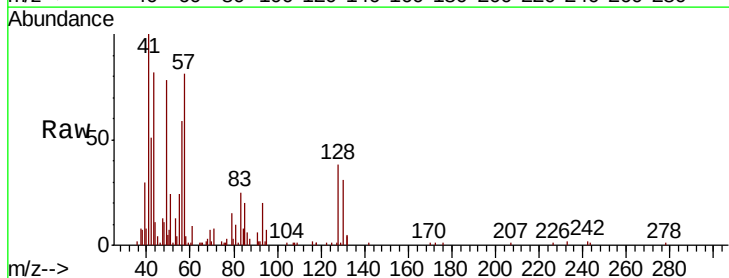


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

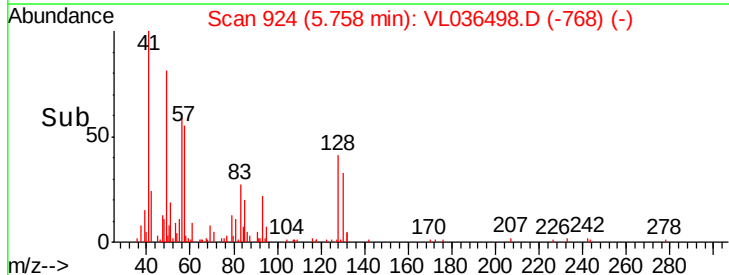
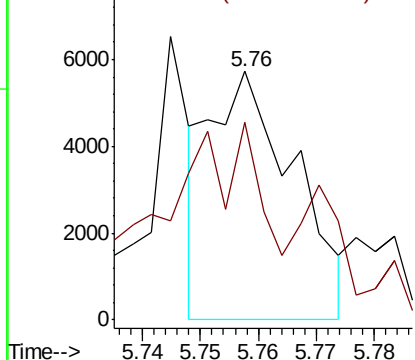


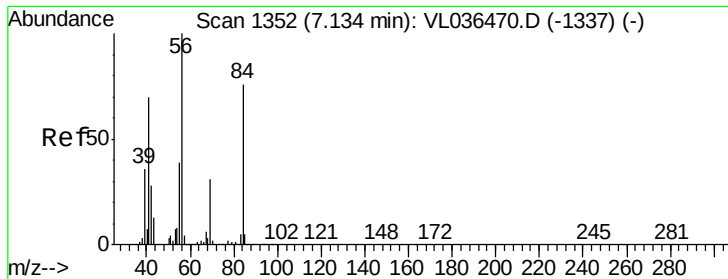
#29
Chloroform
Concen: 0.022 ppbv
RT: 5.76 min Scan# 924
Delta R.T.: 0.00 min
Lab File: VL036498.D
Acq: 25 Mar 2021 22:47

Tgt Ion:	83	Resp:	5790
Ion	Ratio	Lower	Upper
83	100		
85	53.3	52.6	78.8



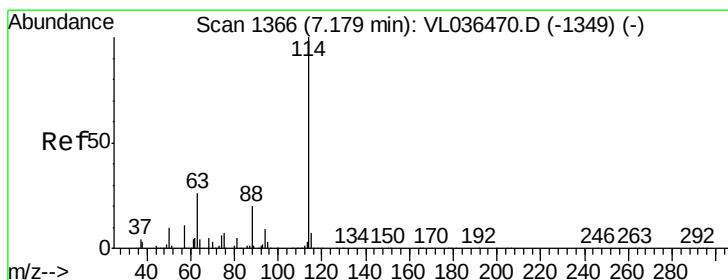
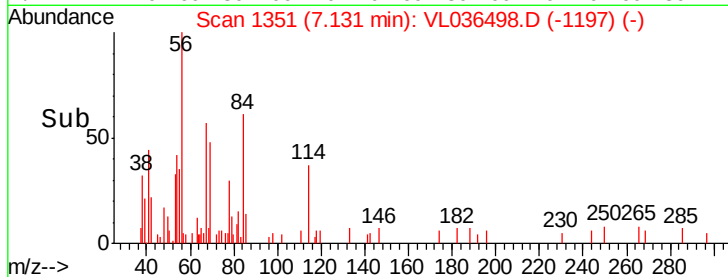
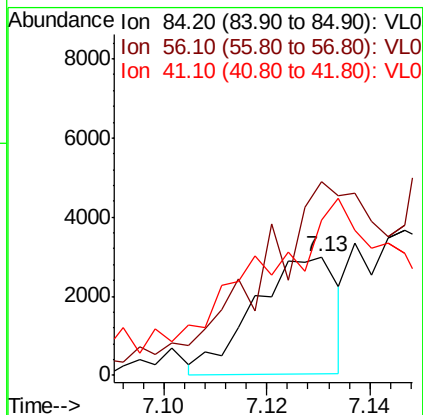
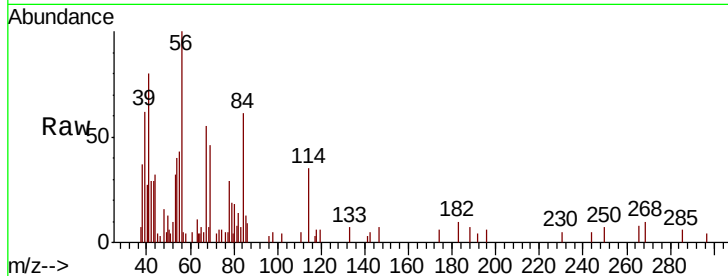
Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0





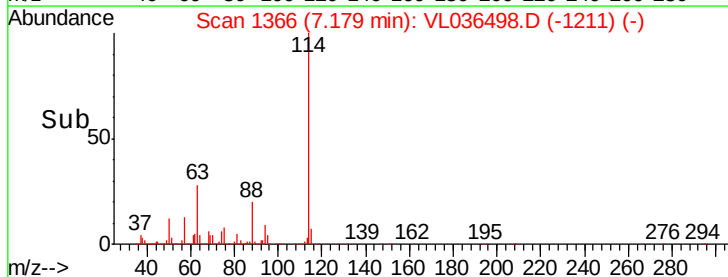
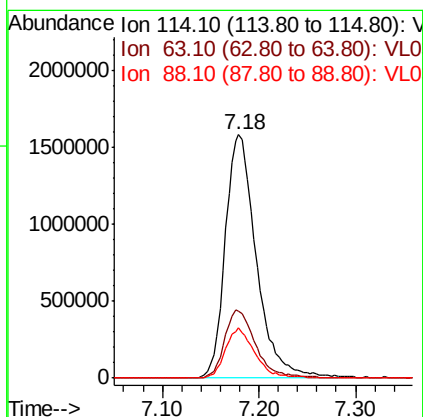
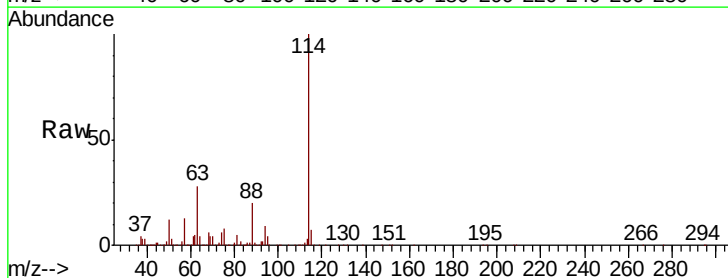
#30
Cvclohexane
Concen: 0.024 ppbv
RT: 7.13 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 25 Mar 2021 22:47

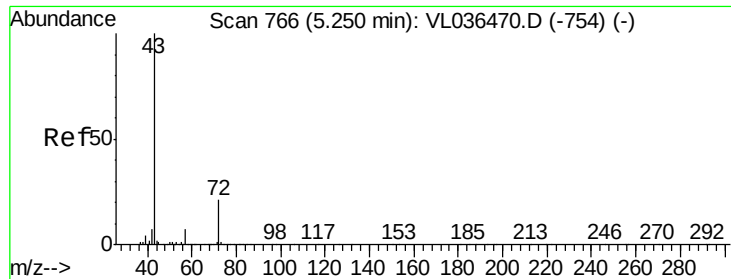
Tot Ion	84	Resp	3288
Ion Ratio	Lower	Upper	
84	100		
56	0.0	114.6	171.8#
41	0.0	75.3	112.9#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1366
Delta R.T.: -0.00 min
Lab File: VL036498.D
Acq: 25 Mar 2021 22:47

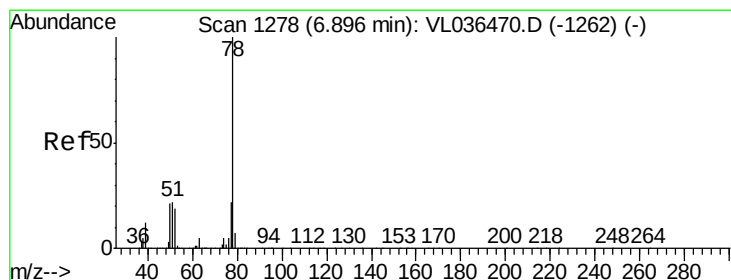
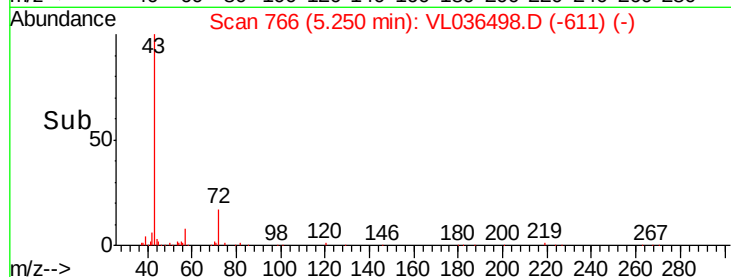
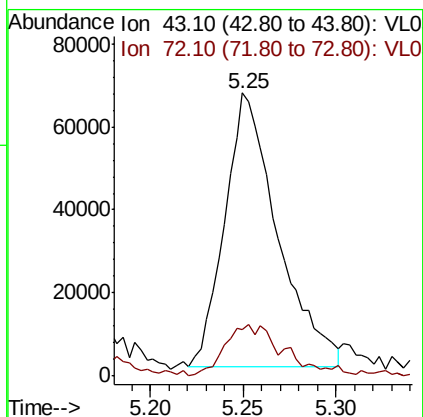
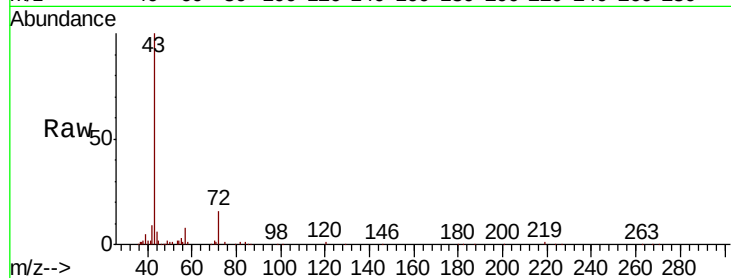
Tgt Ion	114	Resp	3531490
Ion Ratio	Lower	Upper	
114	100		
63	28.2	22.4	33.6
88	19.7	15.4	23.0





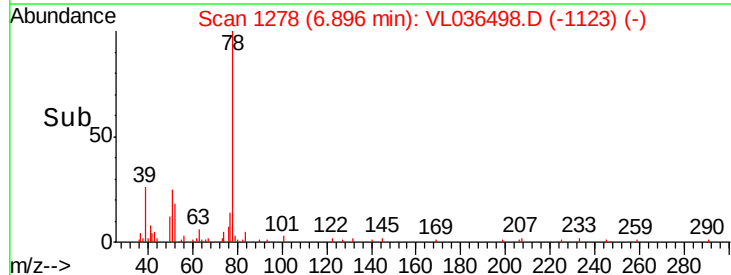
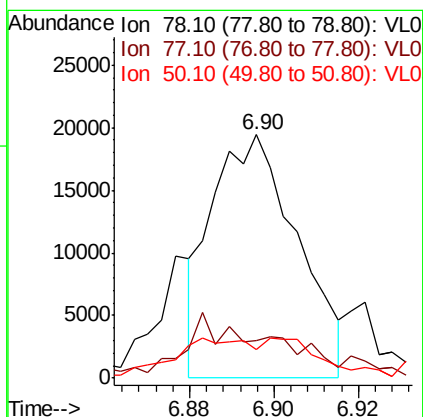
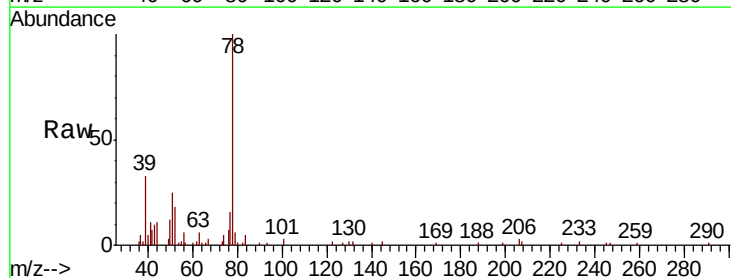
#34
 2-Butanone
 Concen: 0.753 ppbv
 RT: 5.25
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 25 Mar 2021 22:47

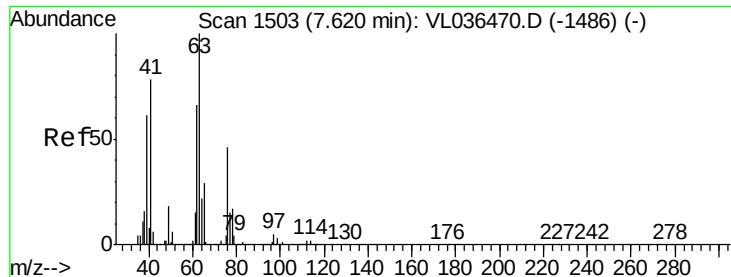
Tot Ion: 43 Resp: 129756
 Ion Ratio Lower Upper
 43 100
 72 22.9 17.0 25.6



#36
 Benzene
 Concen: 0.084 ppbv
 RT: 6.90 min Scan# 1278
 Delta R.T. -0.00 min
 Lab File: VL036498.D
 Acq: 25 Mar 2021 22:47

Tgt Ion: 78 Resp: 27354
 Ion Ratio Lower Upper
 78 100
 77 14.5 18.0 27.0#
 50 8.6 16.5 24.7#





#39

1,2-Dichloropropane

Concen: 7.414 ppbv

RT: 7.18 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 25 Mar 2021 22:47

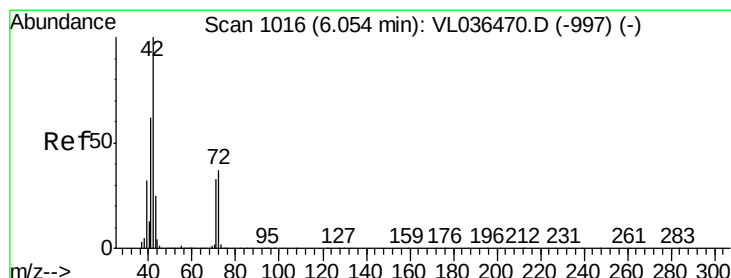
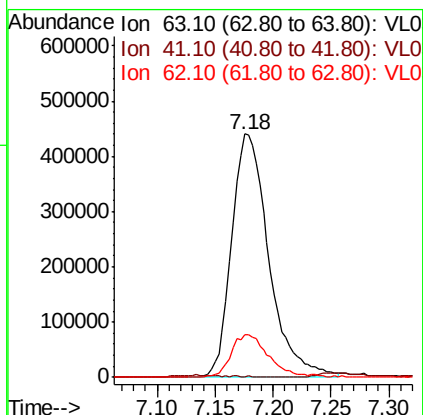
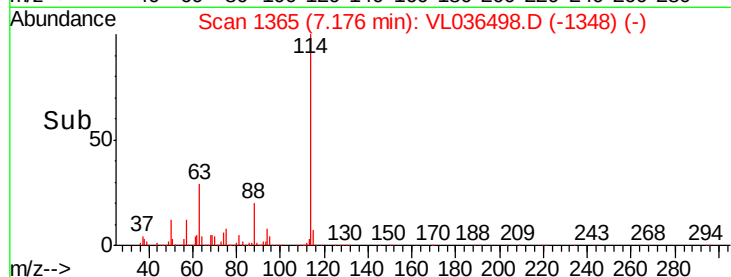
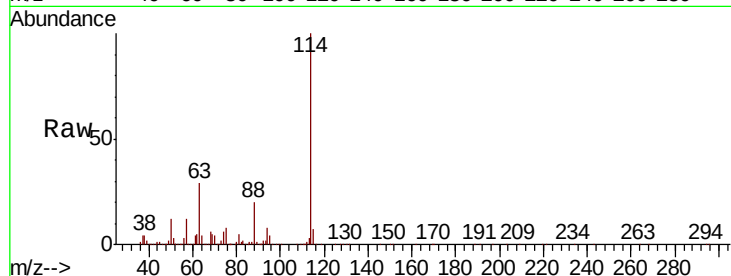
Tot Ion: 63 Resp: 979598

Ion Ratio Lower Upper

63 100

41 0.0 62.4 93.6#

62 17.5 52.8 79.2#



#41

Tetrahydrofuran

Concen: 10.508 ppbv

RT: 5.69 min Scan# 903

Delta R.T. -0.36 min

Lab File: VL036498.D

Acq: 25 Mar 2021 22:47

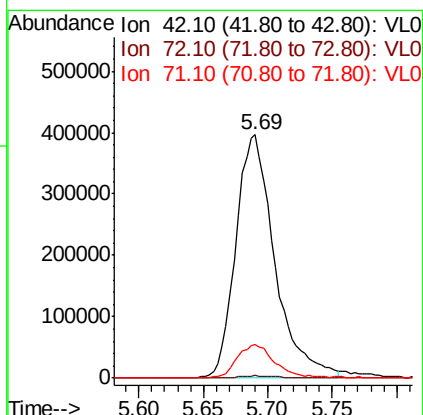
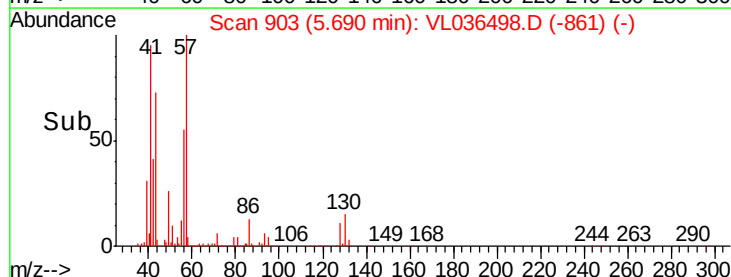
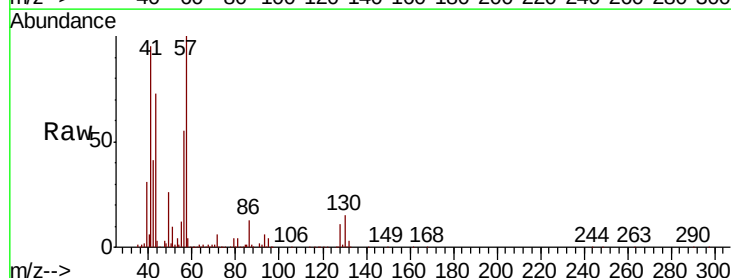
Tgt Ion: 42 Resp: 835234

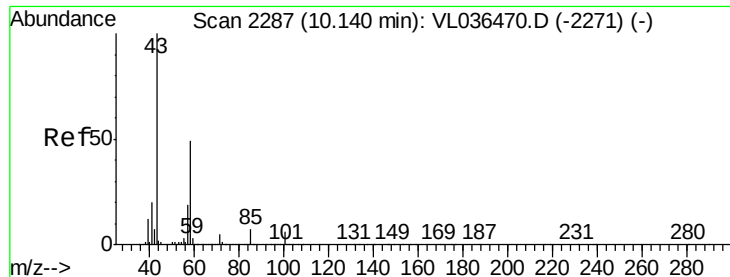
Ion Ratio Lower Upper

42 100

72 0.9 27.6 41.4#

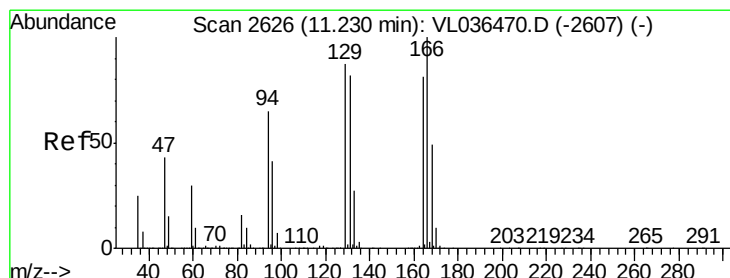
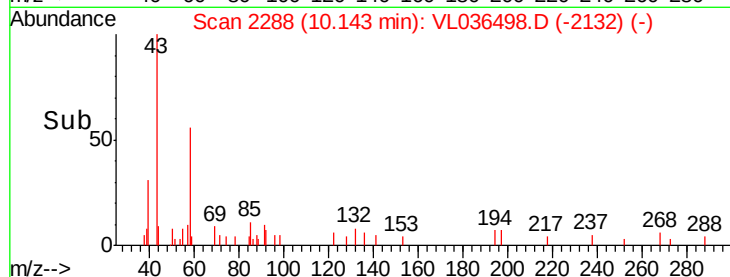
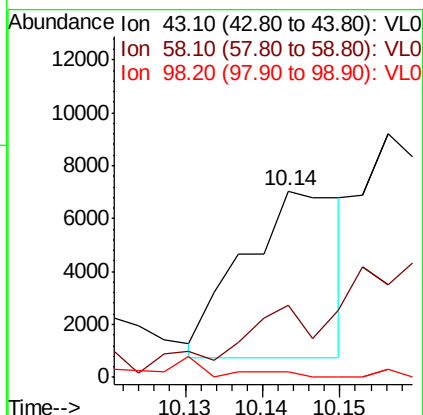
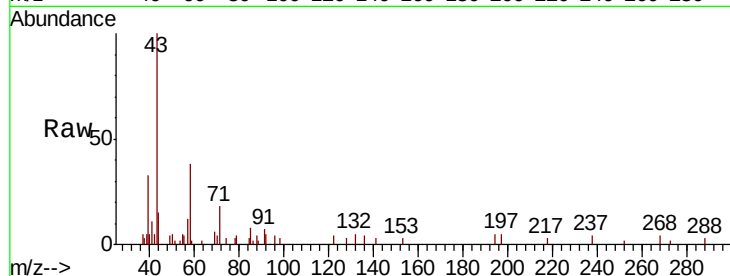
71 13.7 27.0 40.4#





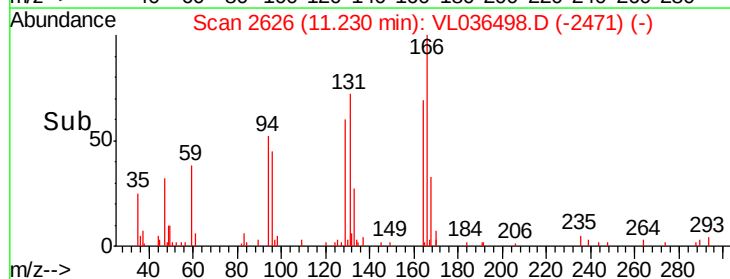
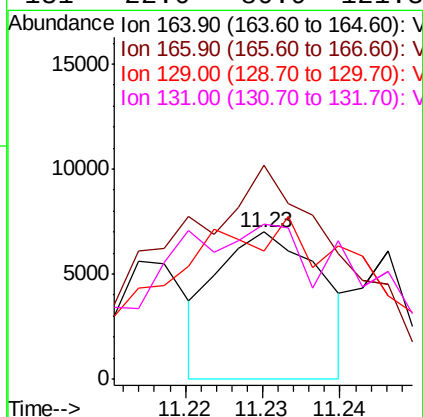
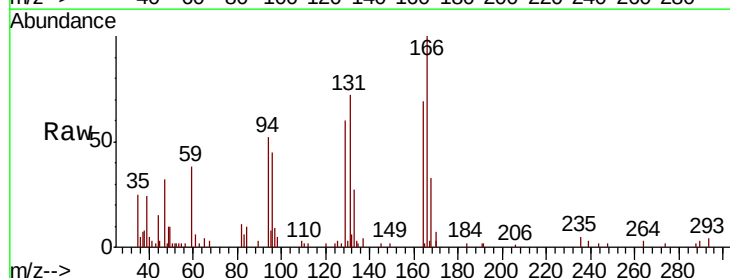
#51
2-Hexanone
Concen: 0.044 ppbv
RT: 10.14 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 25 Mar 2021 22:47

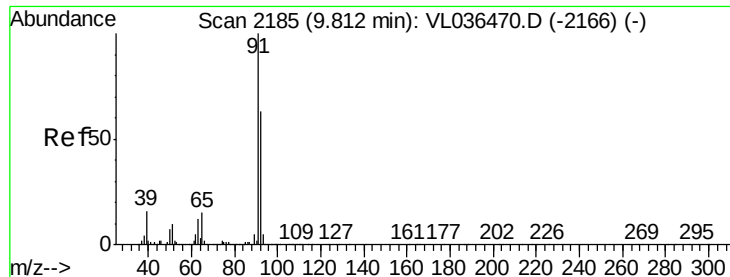
Tot Ion	Ratio	Lower	Upper
43	100		
58	0.0	37.7	56.5#
98	0.0	0.2	0.2#



#52
Tetrachloroethene
Concen: 0.055 ppbv
RT: 11.23 min Scan# 2626
Delta R.T. -0.00 min
Lab File: VL036498.D
Acq: 25 Mar 2021 22:47

Tgt Ion	Ratio	Lower	Upper
164	100		
166	121.8	98.3	147.5
129	21.3	85.8	128.8#
131	22.0	80.9	121.3#





#53

Toluene

Concen: 0.151 ppbv

RT: 9.82 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

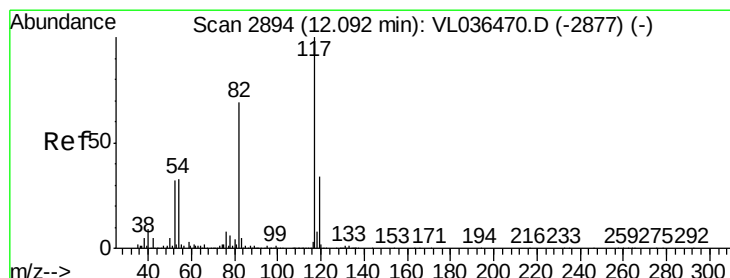
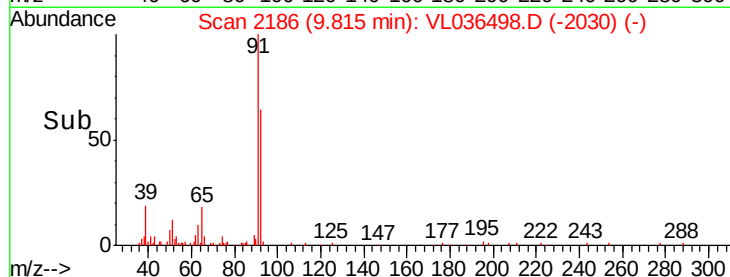
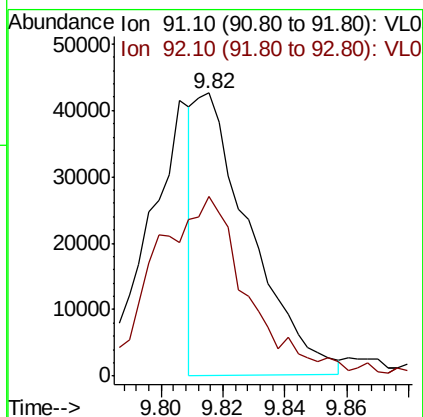
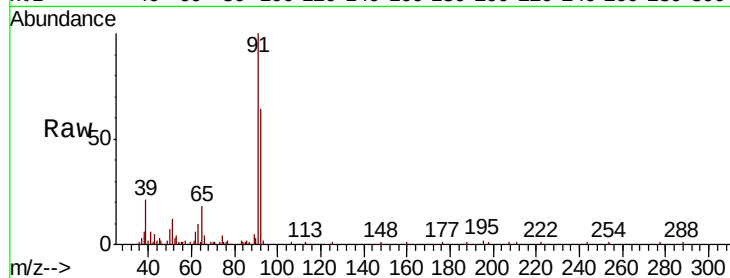
Acq: 25 Mar 2021 22:47

Tot Ion: 91 Resp: 52305

Ion Ratio Lower Upper

91 100

92 114.5 48.8 73.2#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2894

Delta R.T. -0.00 min

Lab File: VL036498.D

Acq: 25 Mar 2021 22:47

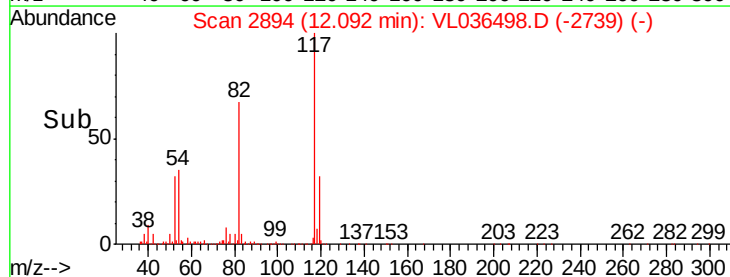
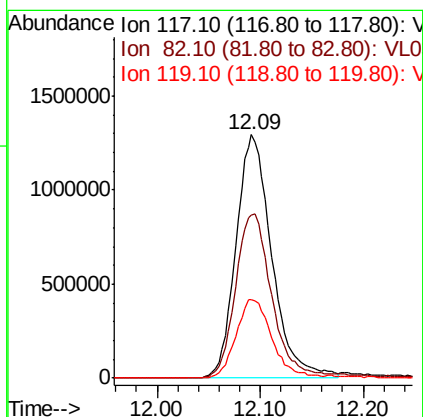
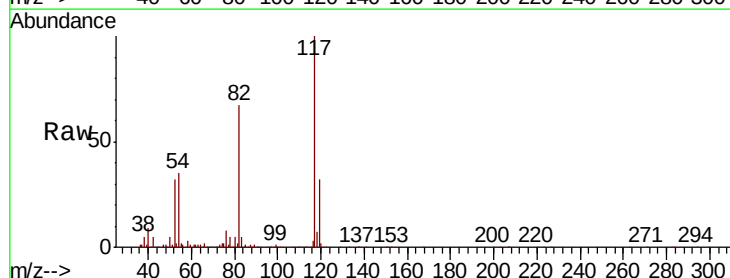
Tgt Ion: 117 Resp: 3129242

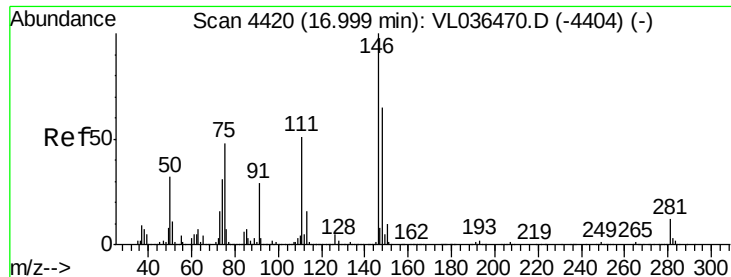
Ion Ratio Lower Upper

117 100

82 70.8 57.4 86.0

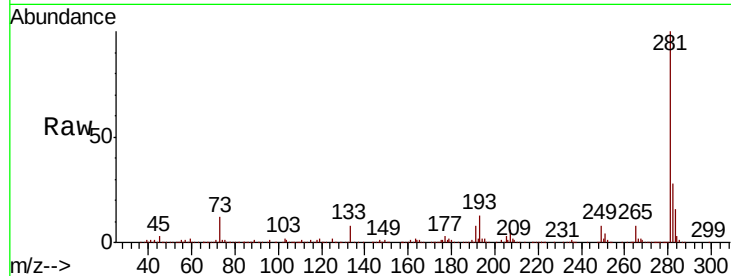
119 33.4 47.4 71.0#



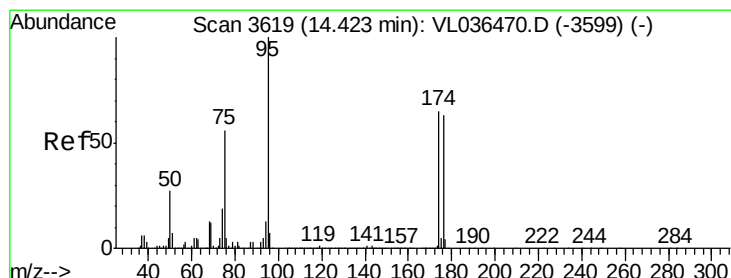
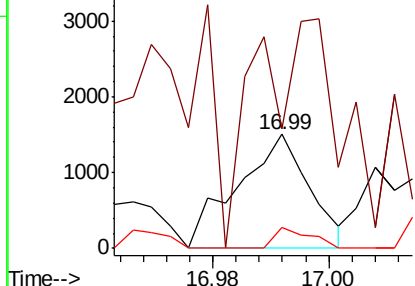
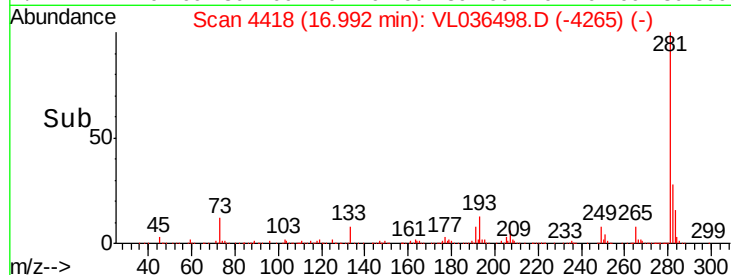


#66
Benzyl Chloride
Concen: 0.026 ppbv
RT: 16.99 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 25 Mar 2021 22:47

Tot Ion: 91 Resp: 1292
Ion Ratio Lower Upper
91 100
126 549.8 13.5 20.3#
128 9.1 4.2 6.4#

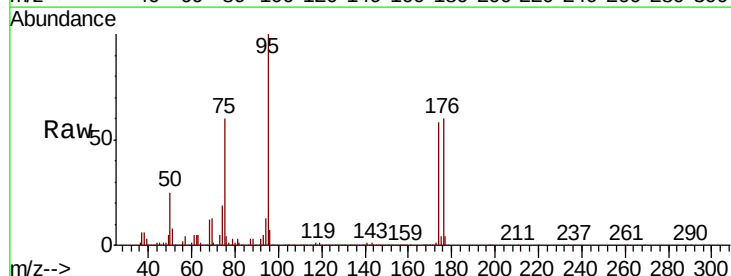


Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 126.10 (125.80 to 126.80): V
Ion 128.10 (127.80 to 128.80): V

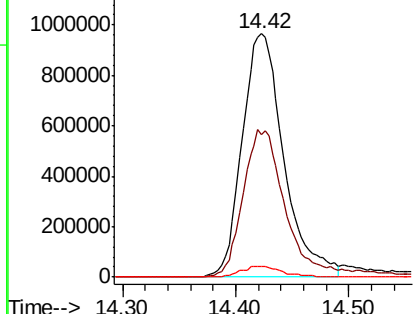
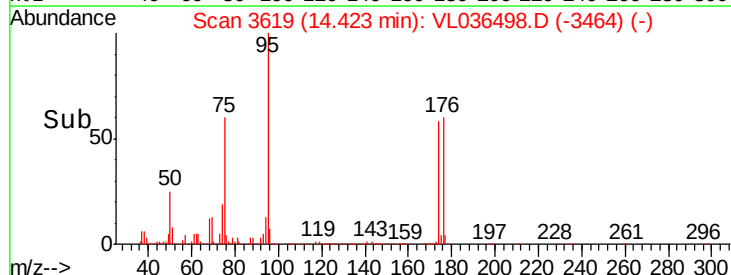


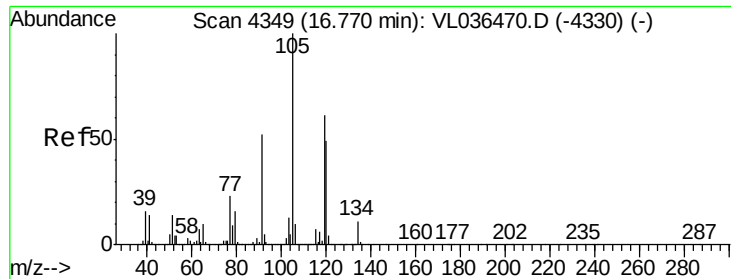
#68
1-Bromo-4-Fluorobenzene
Concen: 9.905 ppbv
RT: 14.42 min Scan# 3619
Delta R.T. -0.00 min
Lab File: VL036498.D
Acq: 25 Mar 2021 22:47

Tgt Ion: 95 Resp: 2470246
Ion Ratio Lower Upper
95 100
174 64.9 51.0 76.6
175 4.7 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





#74
 1,2,4-Trimethylbenzene
 Concen: 0.072 ppbv
 RT: 16.77
 Delta R.T: MSVOA_L
 Lab File: ClientSampleId :
 Acq: 25 Mar 2021 22:47

Tot Ion:	105	Resp:	30232
Ion Ratio	Lower	Upper	
105	100		
120	54.2	39.2	58.8
91	9.9	42.6	64.0#
77	14.4	18.6	28.0#

