

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032521\
 Data File : VL036500.D
 Acq On : 26 Mar 2021 00:19
 Operator :
 Sample : M1748-35
 Misc : 400ml/MSVOA L
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 26 03:54:07 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	1469116	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3442095	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2982779	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	2341662	9.85	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.50%

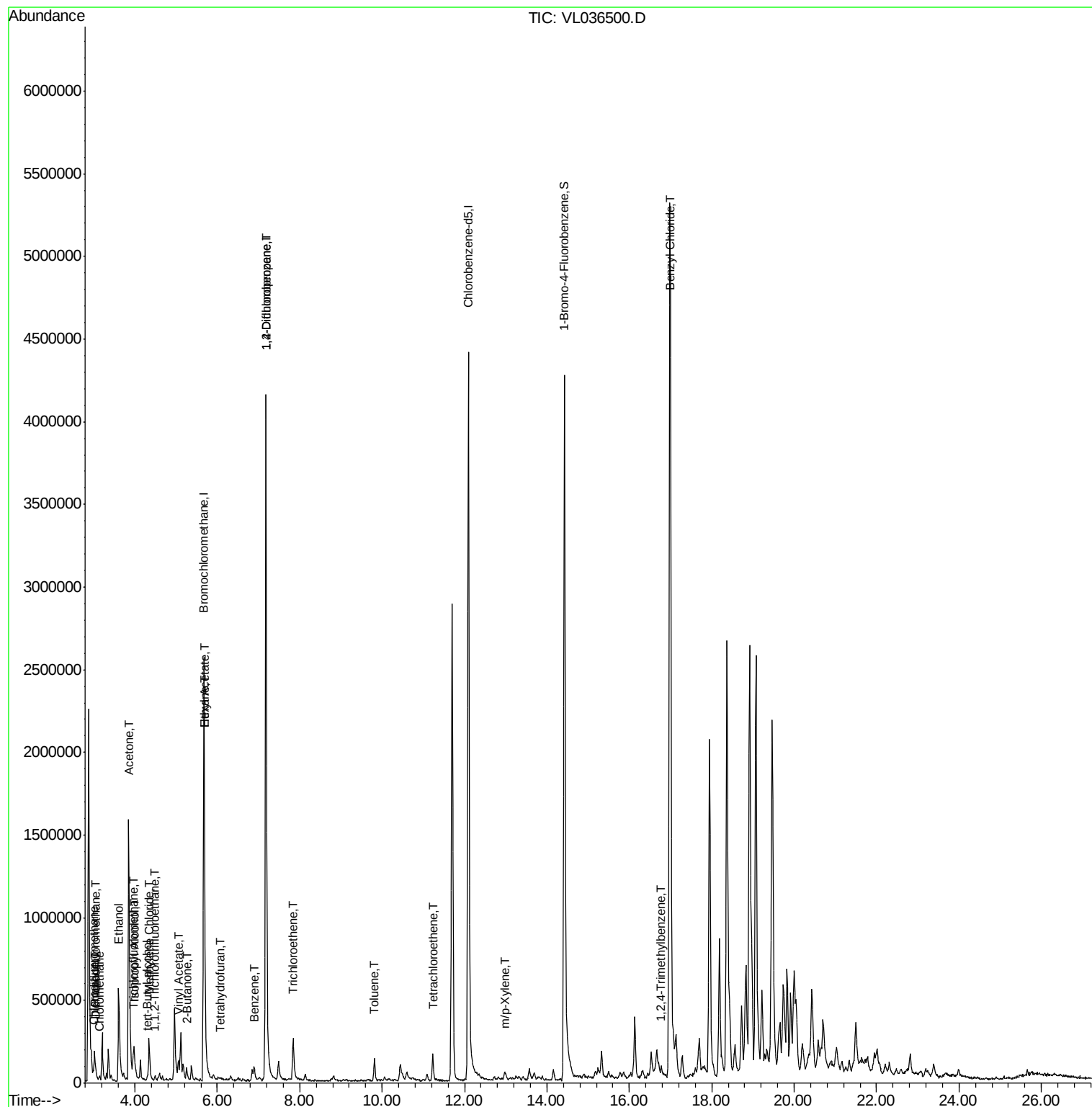
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	39075	0.163 ppbv	99
3) Chlorodifluoromethane	2.99	51	68512	0.250 ppbv #	91
4) Chloromethane	3.14	50	10360	0.107 ppbv #	85
9) Propene	3.02	41	30008	0.343 ppbv #	56
11) Trichlorofluoromethane	3.95	101	68392	0.280 ppbv #	81
12) 1,1,2-Trichlorotrifluoroet	4.49	101	5523	0.035 ppbv #	8
13) Ethanol	3.61	45	774090	74.286 ppbv	95
15) Acetone	3.85	43	2164610	14.970 ppbv	98
17) tert-Butyl alcohol	4.30	59	14371	0.114 ppbv #	72
19) Isopropyl Alcohol	3.98	45	202172	2.542 ppbv #	1
20) Methylene Chloride	4.35	84	93338	1.379 ppbv	97
23) Vinyl Acetate	5.07	43	23597	0.095 ppbv #	6
25) Ethyl Acetate	5.69	43	111146	0.323 ppbv #	81
26) Hexane	5.69	57	146087	0.916 ppbv #	48
34) 2-Butanone	5.25	43	89252	0.531 ppbv #	86
36) Benzene	6.89	78	51873	0.163 ppbv #	93
38) Trichloroethene	7.84	130	79003	0.639 ppbv	92
39) 1,2-Dichloropropane	7.18	63	924815	7.182 ppbv #	24
41) Tetrahydrofuran	6.06	42	1743	0.022 ppbv #	9
52) Tetrachloroethene	11.23	164	36315	0.311 ppbv #	83
53) Toluene	9.82	91	107053	0.317 ppbv	99
59) m/p-Xylene	13.00	91	10389	0.027 ppbv #	32
66) Benzyl Chloride	17.00	91	981	0.021 ppbv #	1
74) 1,2,4-Trimethylbenzene	16.77	105	20886	0.052 ppbv #	73

(#) = 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: 26 Mar 2021 00:19

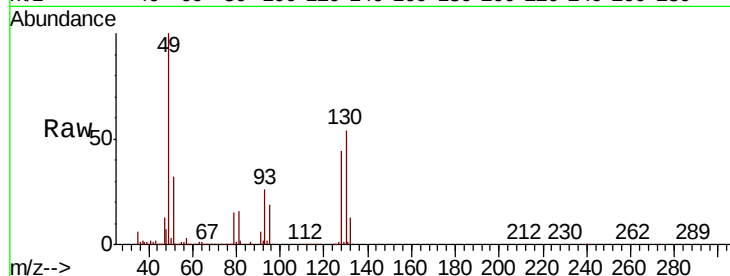
Tot Ion: 49 Resp: 1469116

Ion Ratio Lower Upper

49 100

128 45.4 23.5 70.6

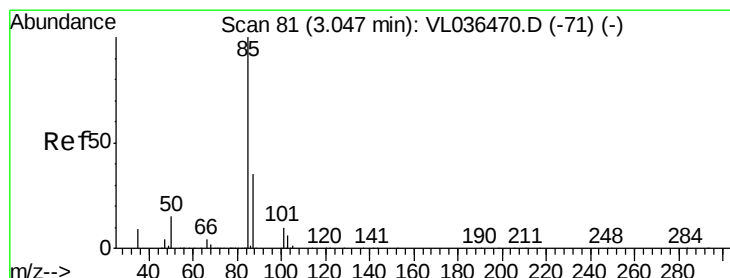
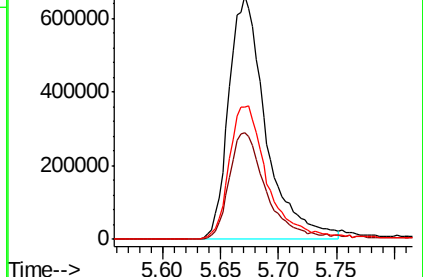
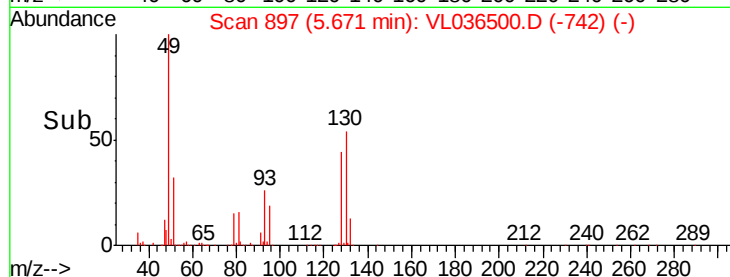
130 57.4 29.1 87.4



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: 0.163 ppbv

RT: 3.05 min Scan# 81

Delta R.T. -0.00 min

Lab File: VL036500.D

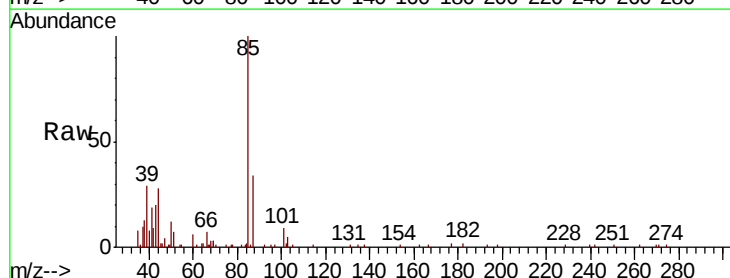
Acq: 26 Mar 2021 00:19

Tgt Ion: 85 Resp: 39075

Ion Ratio Lower Upper

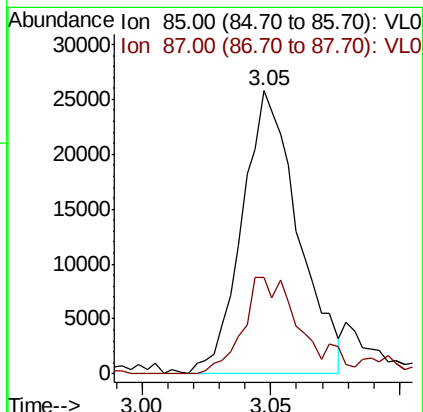
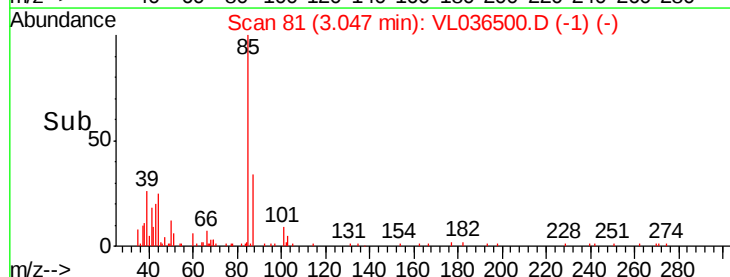
85 100

87 34.2 27.8 41.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.250 ppbv

RT: 2.99 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

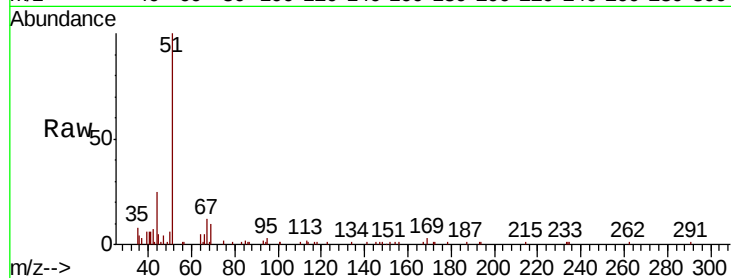
Acq: 26 Mar 2021 00:19

Tot Ion: 51 Resp: 68512

Ion Ratio Lower Upper

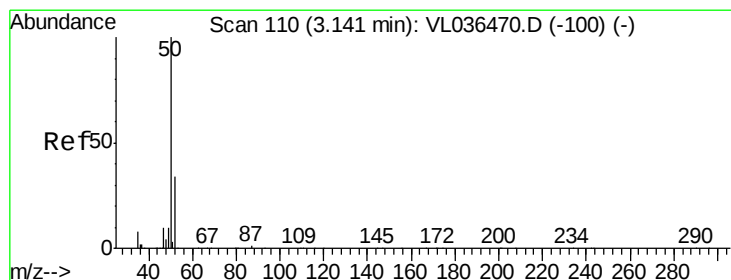
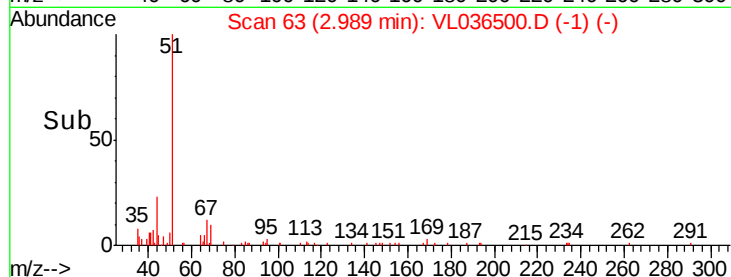
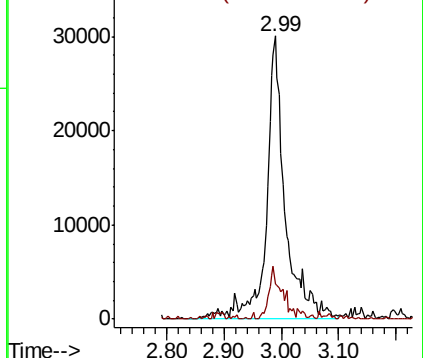
51 100

67 14.4 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: 0.107 ppbv

RT: 3.14 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL036500.D

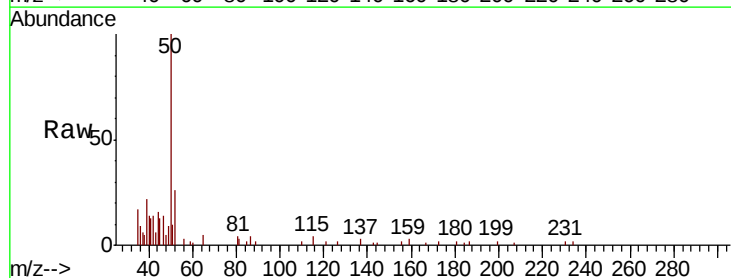
Acq: 26 Mar 2021 00:19

Tgt Ion: 50 Resp: 10360

Ion Ratio Lower Upper

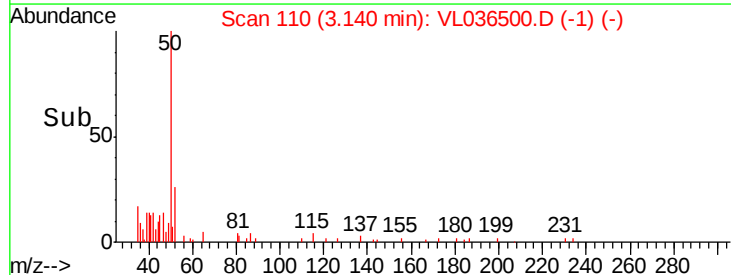
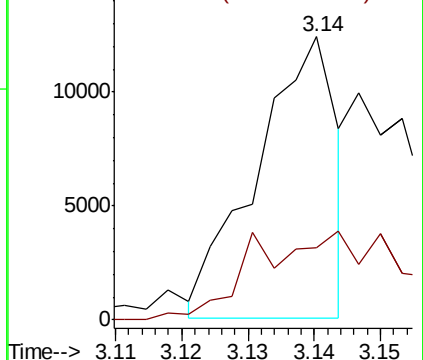
50 100

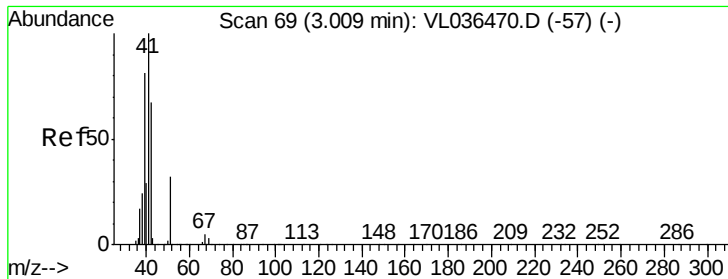
52 25.5 27.0 40.6#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.343 ppbv

RT: 3.02 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

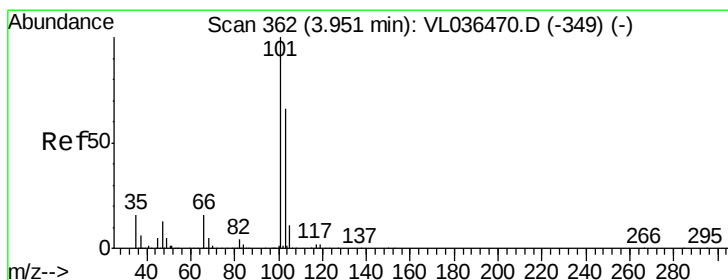
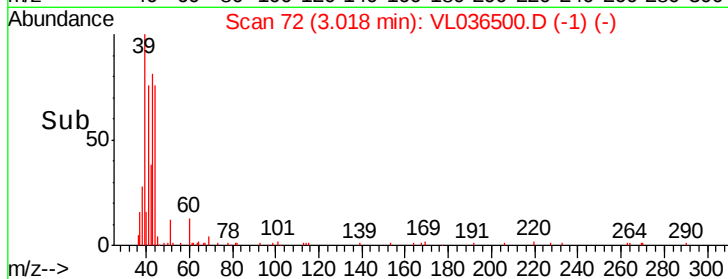
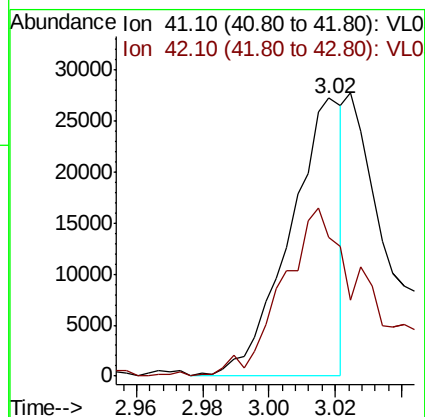
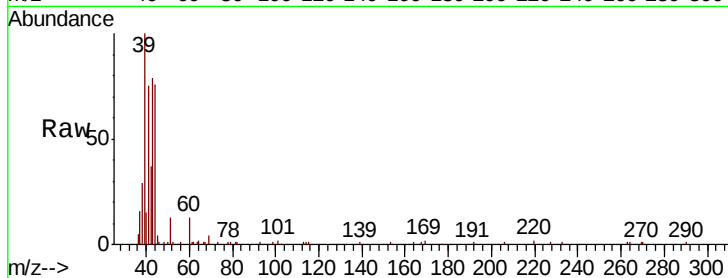
Acq: 26 Mar 2021 00:19

Tot Ion: 41 Resp: 30008

Ion Ratio Lower Upper

41 100

42 107.3 57.0 85.4#



#11

Trichlorofluoromethane

Concen: 0.280 ppbv

RT: 3.95 min Scan# 363

Delta R.T. 0.00 min

Lab File: VL036500.D

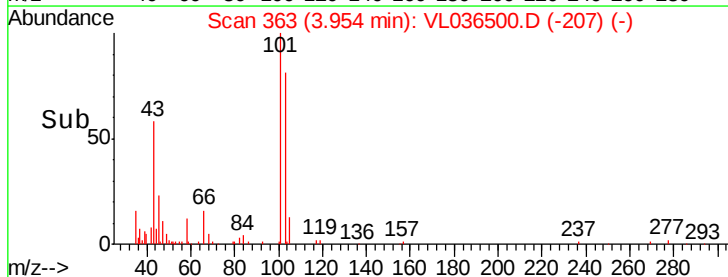
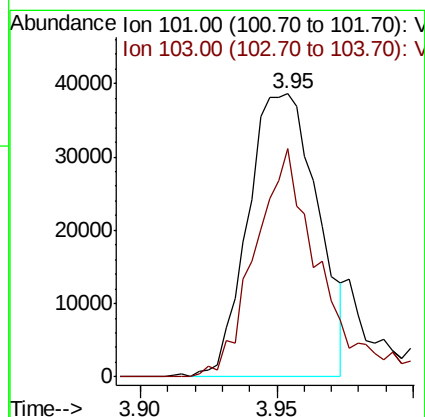
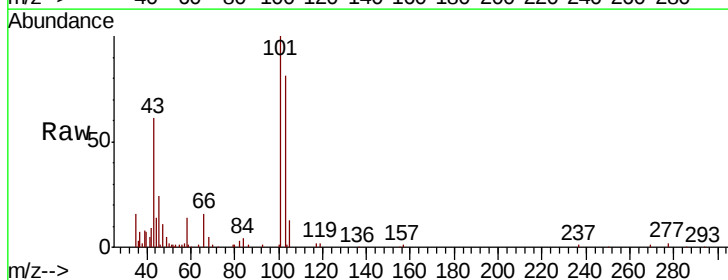
Acq: 26 Mar 2021 00:19

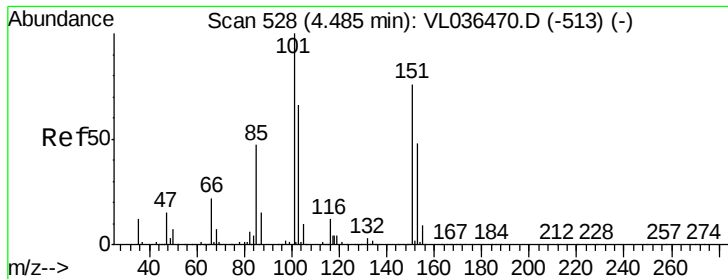
Tgt Ion: 101 Resp: 68392

Ion Ratio Lower Upper

101 100

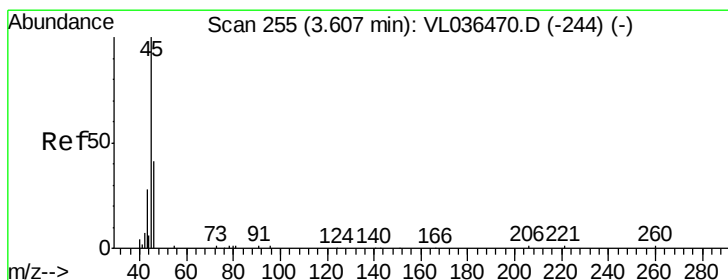
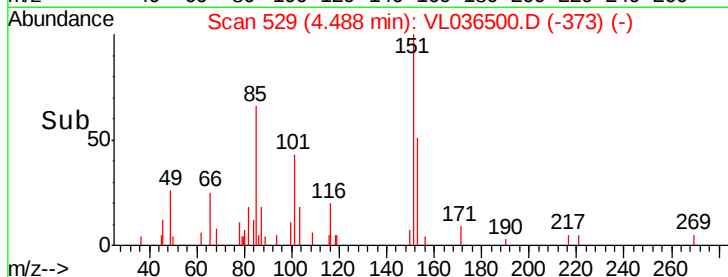
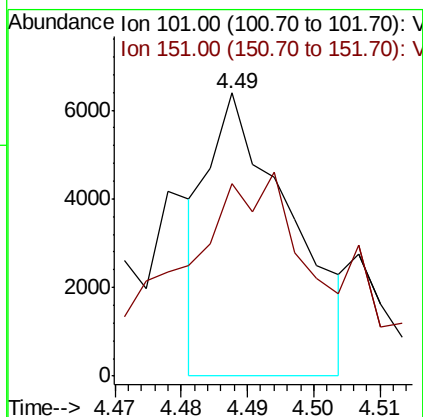
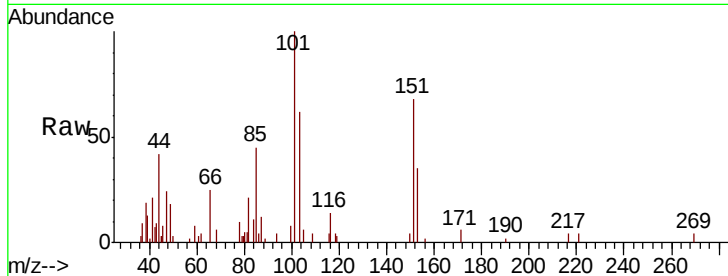
103 80.7 52.5 78.7#





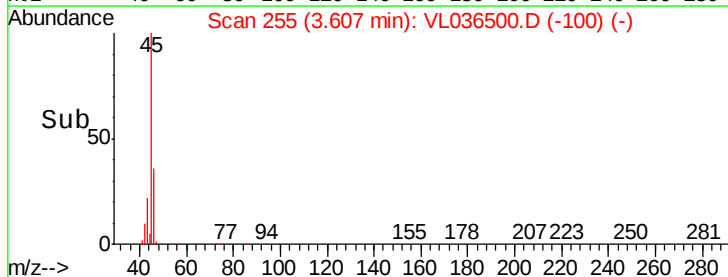
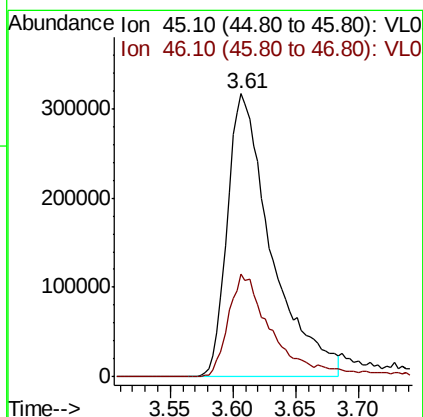
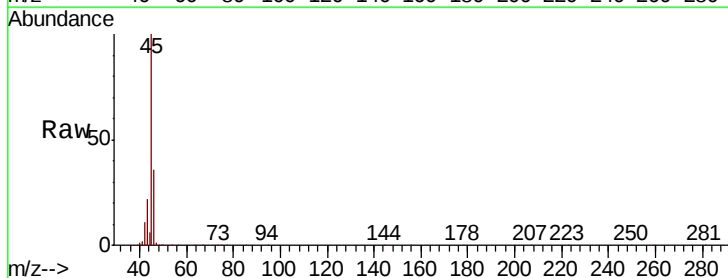
#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.035 ppbv
 RT: 4.49
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 26 Mar 2021 00:19

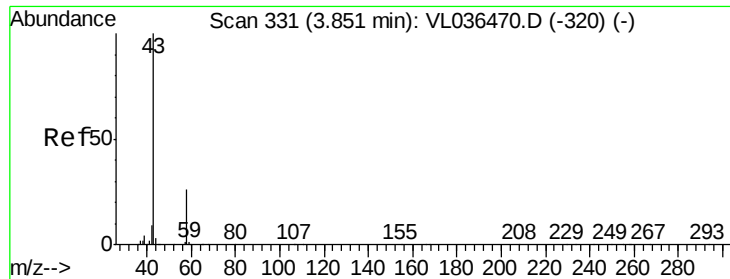
Tot Ion: 101 Resp: 5523
 Ion Ratio Lower Upper
 101 100
 151 154.7 60.9 91.3#



#13
 Ethanol
 Concen: 74.286 ppbv
 RT: 3.61 min Scan# 255
 Delta R.T.: -0.00 min
 Lab File: VL036500.D
 Acq: 26 Mar 2021 00:19

Tgt Ion: 45 Resp: 774090
 Ion Ratio Lower Upper
 45 100
 46 38.3 16.6 66.2





#15

Acetone

Concen: 14.970 ppbv

RT: 3.85 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

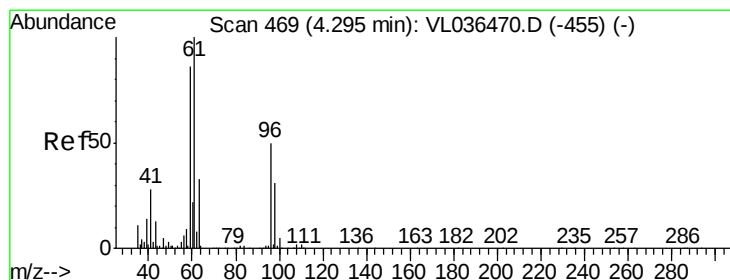
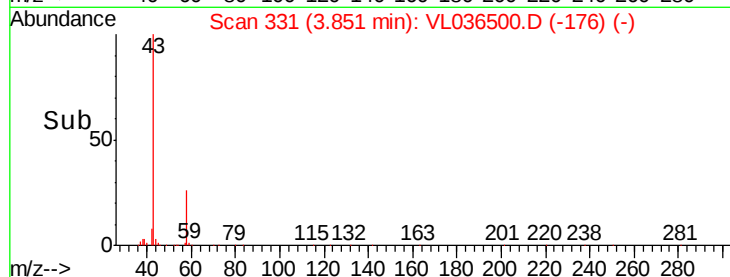
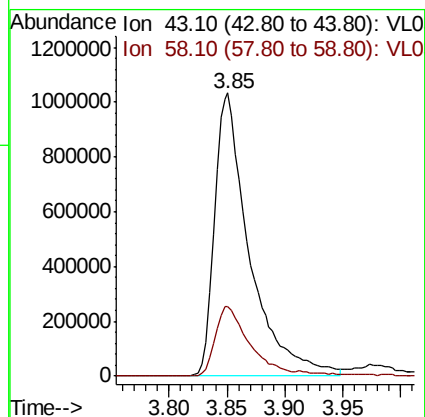
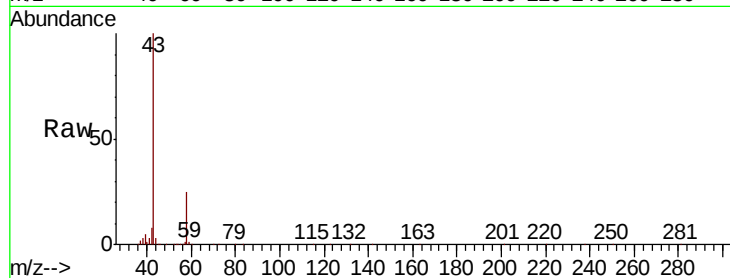
Acq: 26 Mar 2021 00:19

Tot Ion: 43 Resp: 2164610

Ion Ratio Lower Upper

43 100

58 25.6 21.2 31.8



#17

tert-Butyl alcohol

Concen: 0.114 ppbv

RT: 4.30 min Scan# 472

Delta R.T. 0.01 min

Lab File: VL036500.D

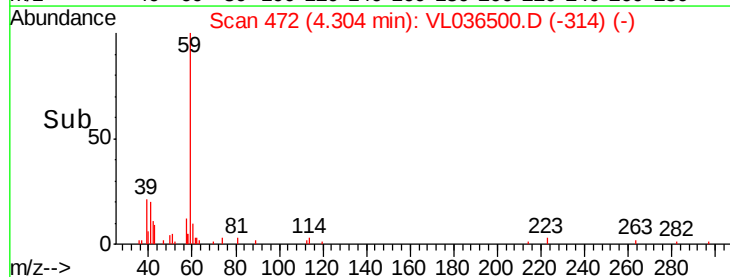
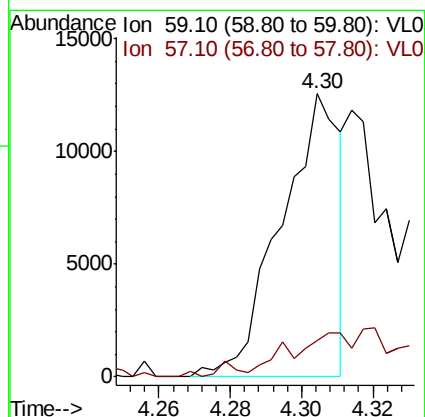
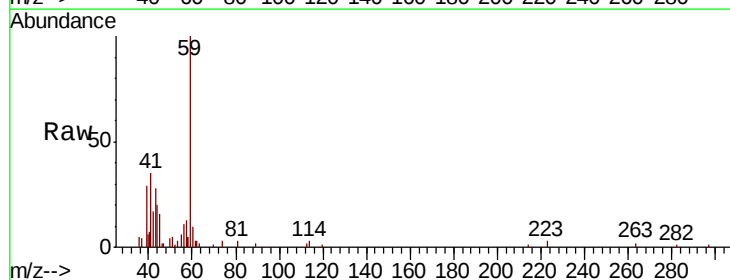
Acq: 26 Mar 2021 00:19

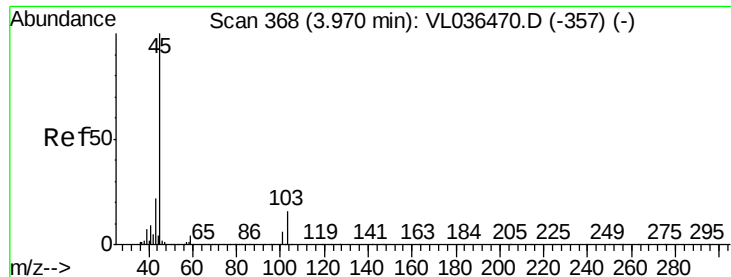
Tgt Ion: 59 Resp: 14371

Ion Ratio Lower Upper

59 100

57 0.0 8.6 12.8#





#19

Isopropyl Alcohol

Concen: 2.542 ppbv

RT: 3.98 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

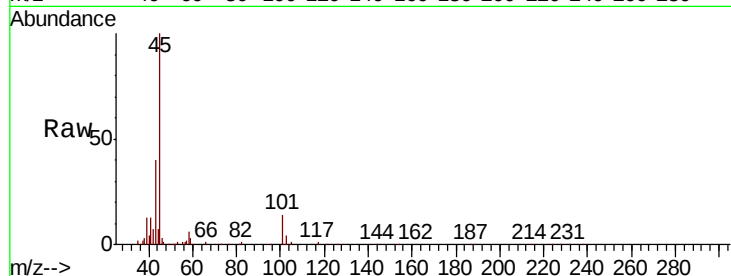
Acq: 26 Mar 2021 00:19

Tot Ion: 45 Resp: 202172

Ion Ratio Lower Upper

45 100

58 274.4 2.9 4.3#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.98

100000

80000

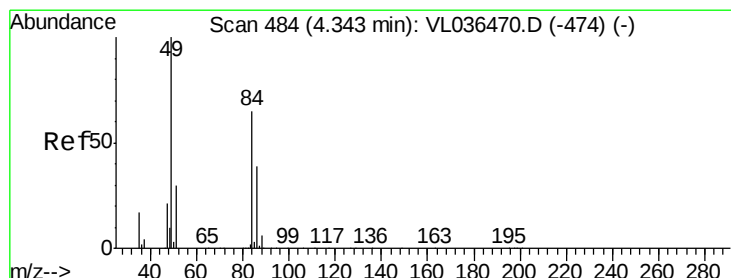
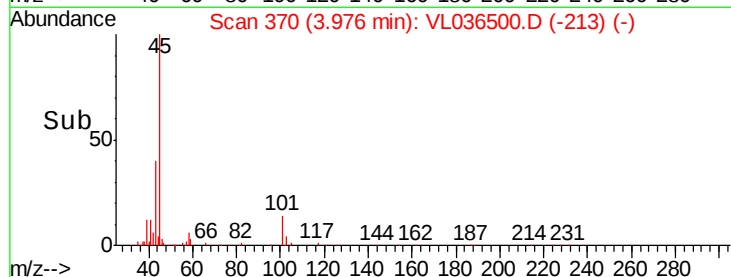
60000

40000

20000

0

Time--> 3.90 3.95 4.00 4.05



#20

Methylene Chloride

Concen: 1.379 ppbv

RT: 4.35 min Scan# 486

Delta R.T. 0.01 min

Lab File: VL036500.D

Acq: 26 Mar 2021 00:19

Tgt Ion: 84 Resp: 93338

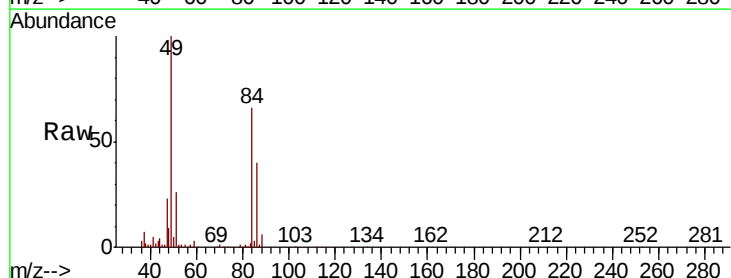
Ion Ratio Lower Upper

84 100

49 151.7 122.9 184.3

51 39.5 36.9 55.3

86 60.2 48.2 72.4



Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

120000

100000

80000

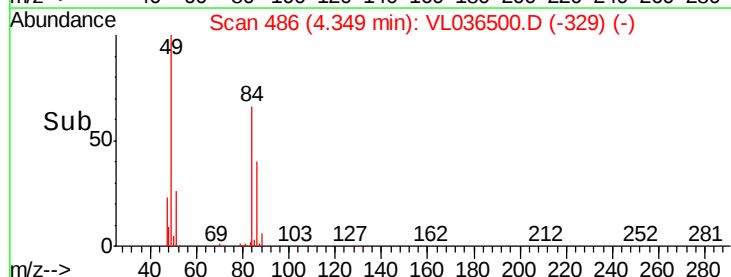
60000

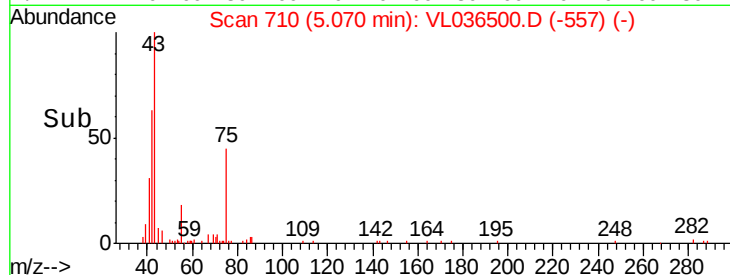
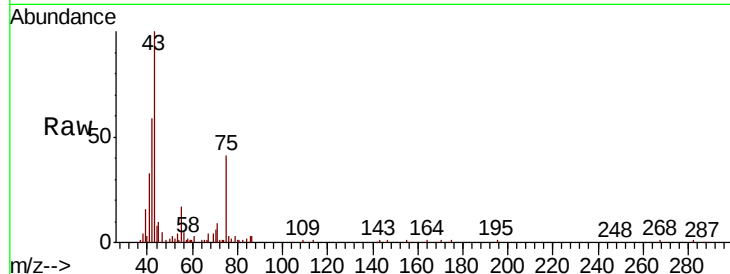
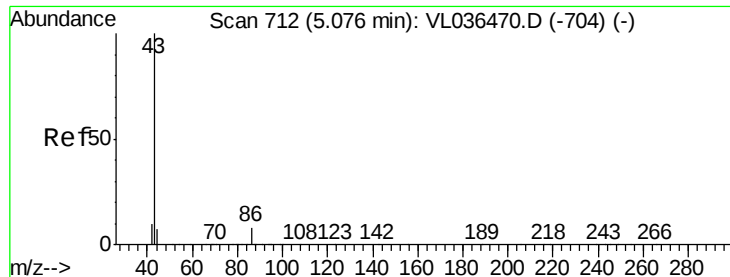
40000

20000

0

Time--> 4.30 4.35 4.40





#23

Vinyl Acetate

Concen: 0.095 ppbv

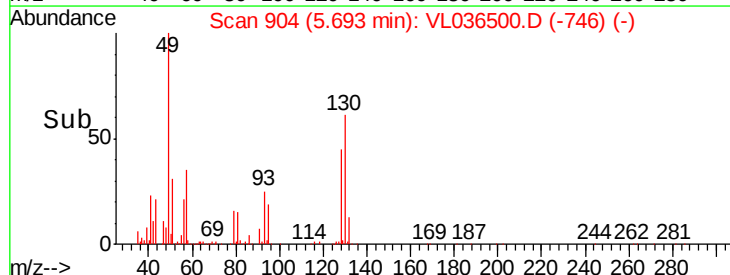
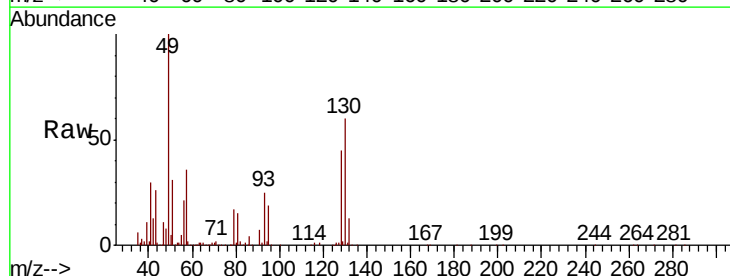
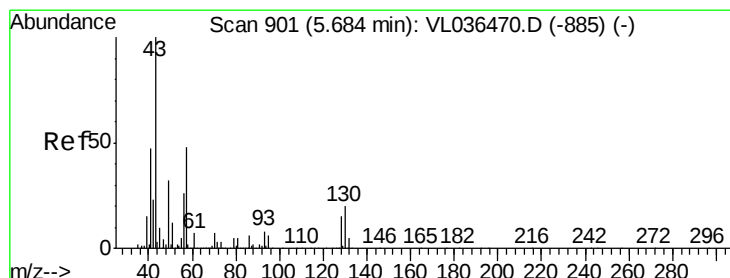
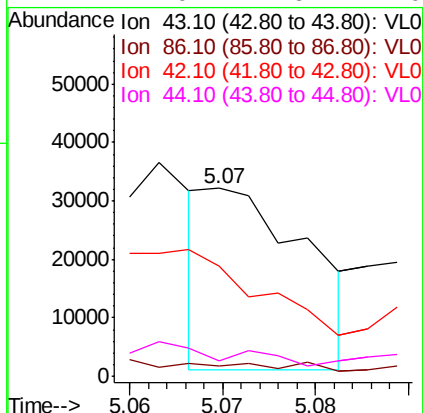
RT: 5.07 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 26 Mar 2021 00:19

Tot Ion:	43	Resp:	23597
Ion	Ratio	Lower	Upper
43	100		
86	6.3	5.4	8.0
42	84.6	8.5	12.7#
44	1.0	4.6	7.0#



#25

Ethyl Acetate

Concen: 0.323 ppbv

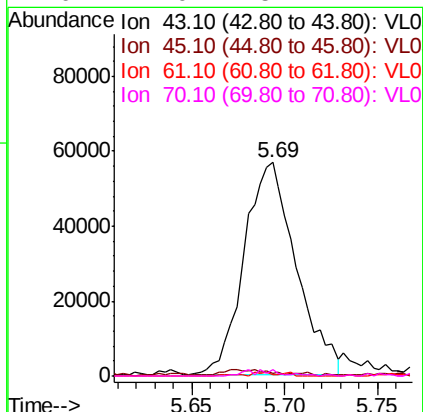
RT: 5.69 min Scan# 904

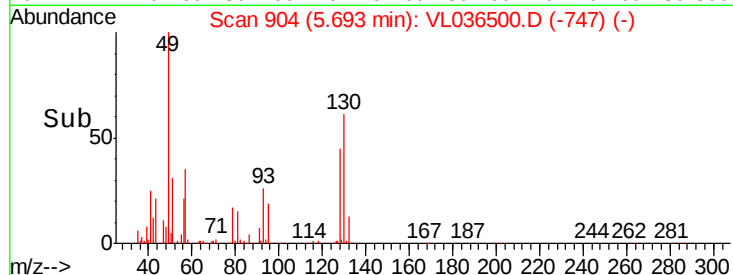
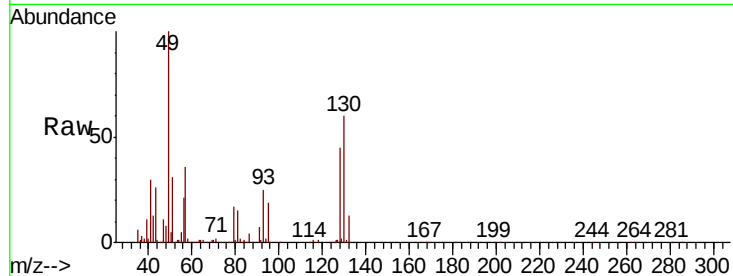
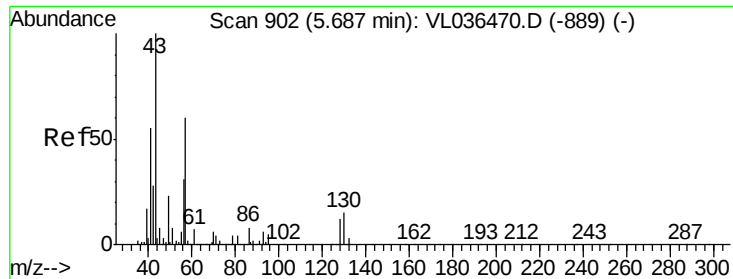
Delta R.T. 0.01 min

Lab File: VL036500.D

Acq: 26 Mar 2021 00:19

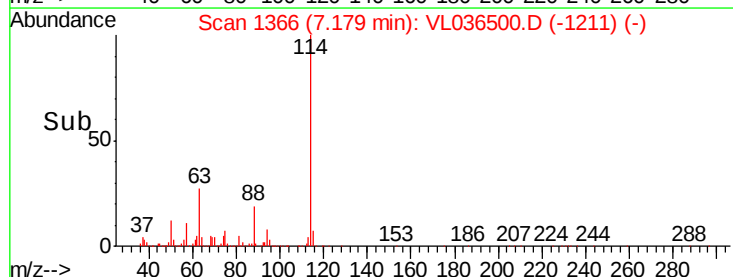
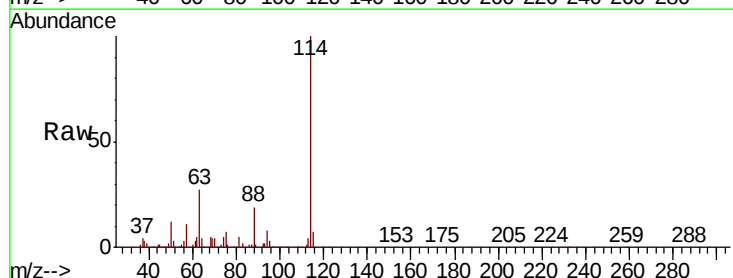
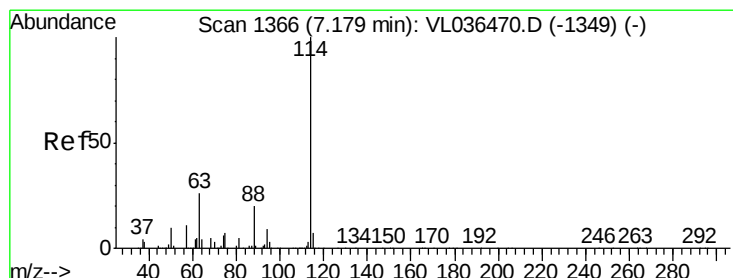
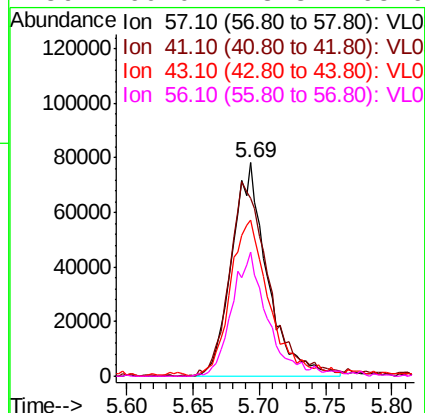
Tgt Ion:	43	Resp:	111146
Ion	Ratio	Lower	Upper
43	100		
45	3.0	7.9	11.9#
61	1.2	7.4	11.2#
70	2.0	5.1	7.7#





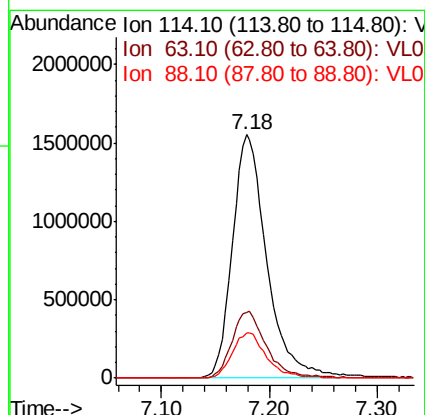
#26
Hexane
Concen: 0.916 ppbv
RT: 5.69
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 26 Mar 2021 00:19

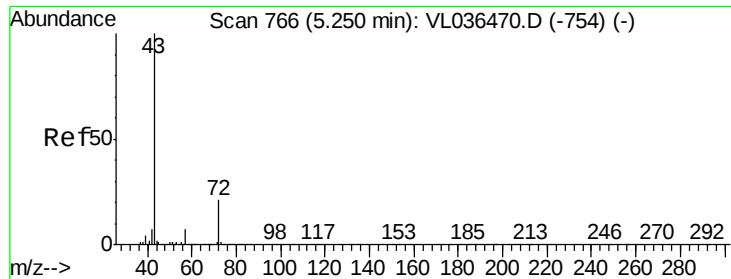
Tot Ion:	57	Resp:	146087
Ion	Ratio	Lower	Upper
57	100		
41	101.4	77.2	115.8
43	83.4	173.8	260.6#
56	60.0	43.8	65.6



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1366
Delta R.T. -0.00 min
Lab File: VL036500.D
Acq: 26 Mar 2021 00:19

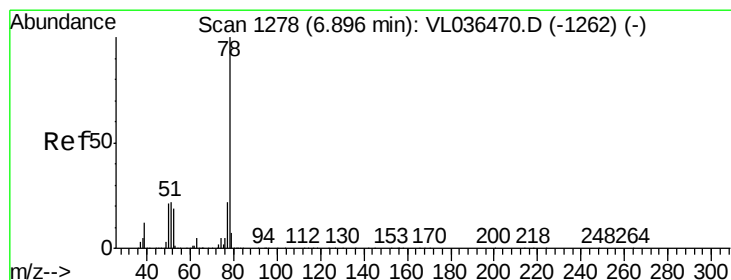
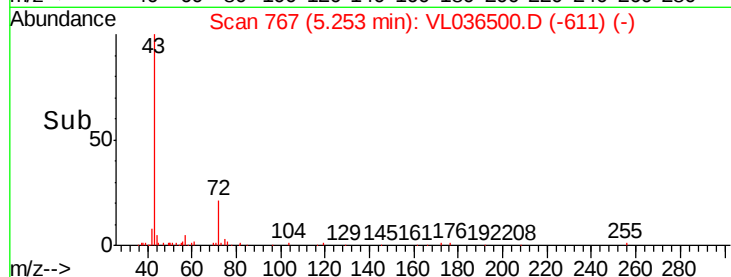
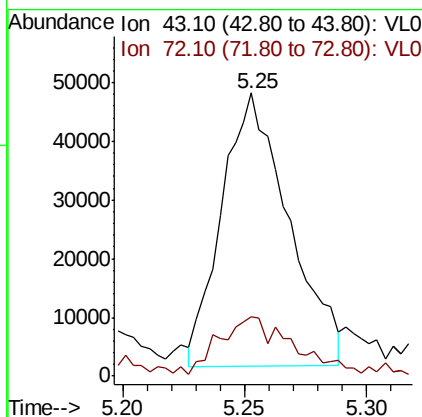
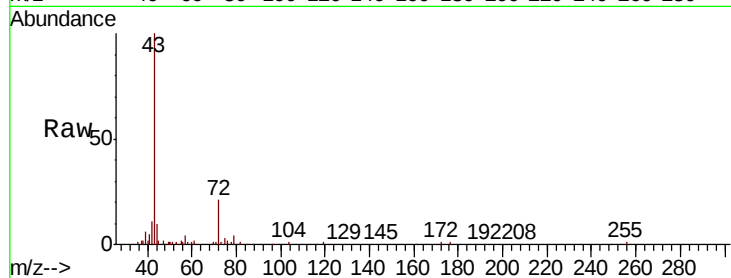
Tgt Ion:	114	Resp:	3442095
Ion	Ratio	Lower	Upper
114	100		
63	28.0	22.4	33.6
88	18.9	15.4	23.0





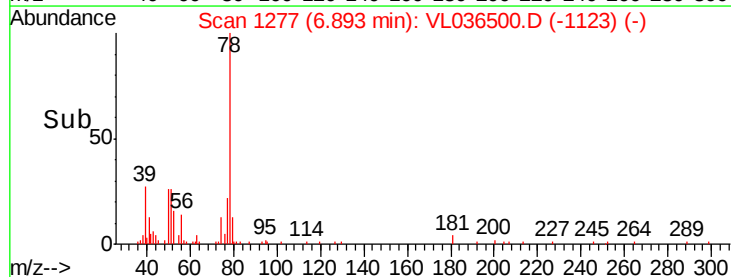
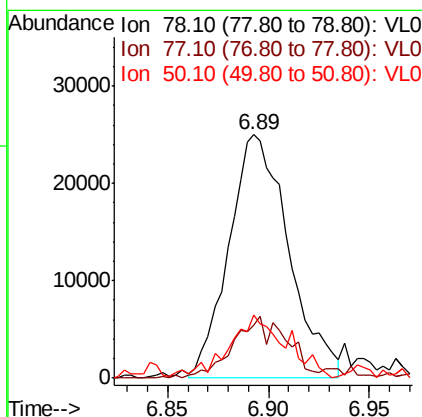
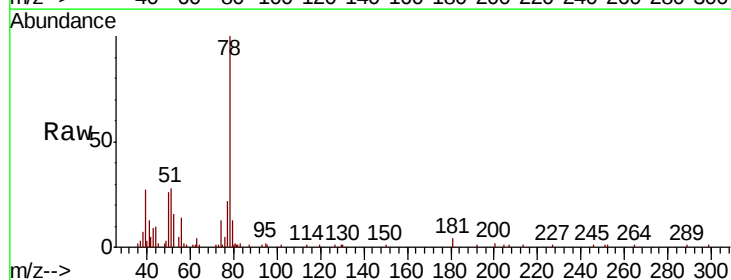
#34
 2-Butanone
 Concen: 0.531 ppbv
 RT: 5.25 Instrument :
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 26 Mar 2021 00:19

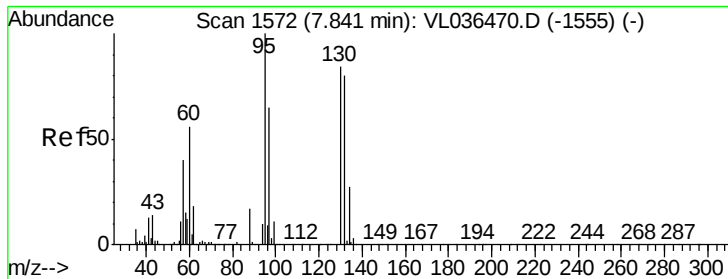
Tot Ion: 43 Resp: 89252
 Ion Ratio Lower Upper
 43 100
 72 27.9 17.0 25.6#



#36
 Benzene
 Concen: 0.163 ppbv
 RT: 6.89 min Scan# 1277
 Delta R.T. -0.00 min
 Lab File: VL036500.D
 Acq: 26 Mar 2021 00:19

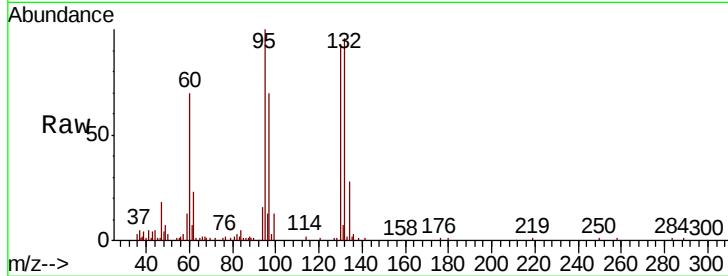
Tgt Ion: 78 Resp: 51873
 Ion Ratio Lower Upper
 78 100
 77 20.6 18.0 27.0
 50 25.8 16.5 24.7#



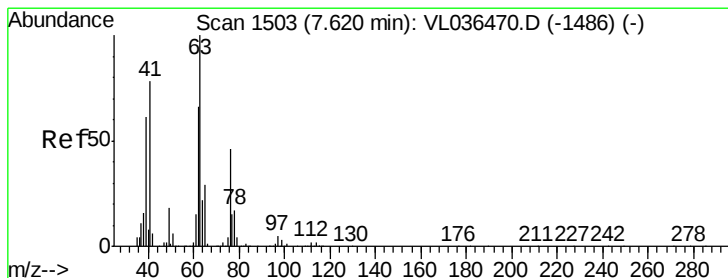
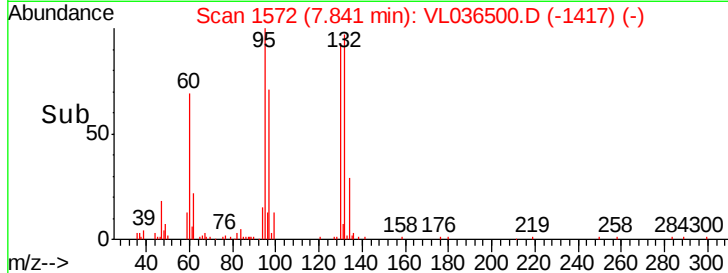
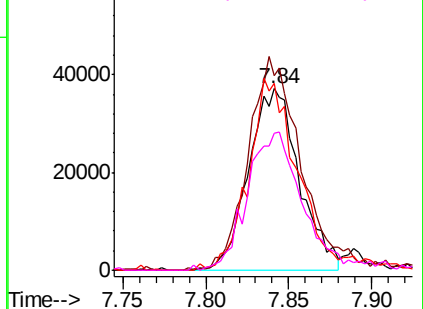


#38
 Trichloroethene
 Concen: 0.639 ppbv
 RT: 7.84
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 26 Mar 2021 00:19

Tot Ion: 130 Resp: 79003
 Ion Ratio Lower Upper
 130 100
 95 105.9 95.7 143.5
 132 103.2 76.2 114.4
 97 75.7 61.8 92.6

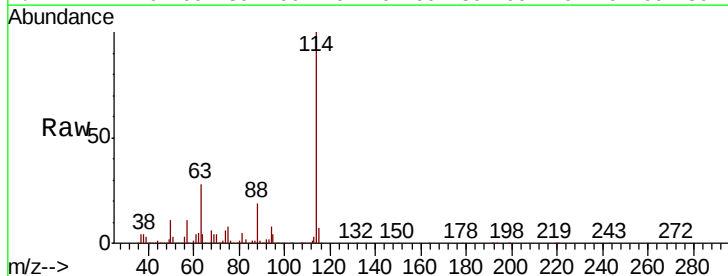


Abundance Ion 130.00 (129.70 to 130.70): V
 Ion 95.00 (94.70 to 95.70): VL0
 Ion 132.00 (131.70 to 132.70): V
 Ion 97.00 (96.70 to 97.70): VL0

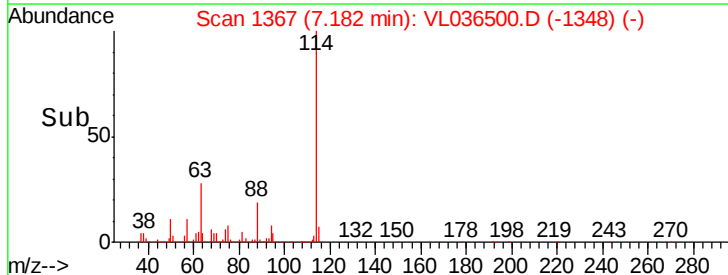
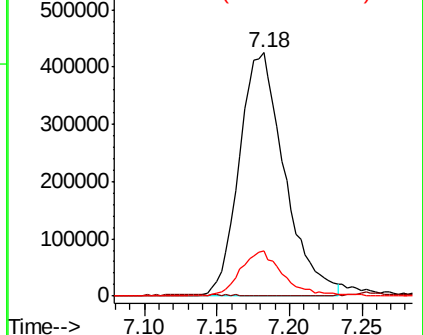


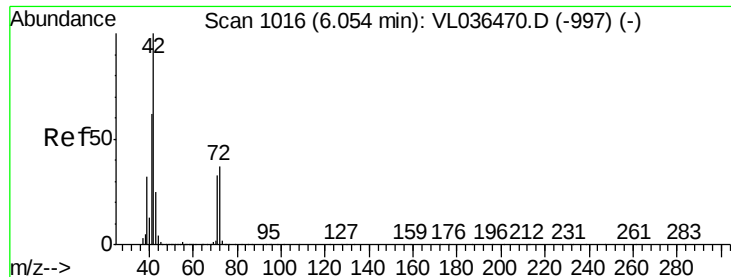
#39
 1,2-Dichloropropane
 Concen: 7.182 ppbv
 RT: 7.18 min Scan# 1367
 Delta R.T. -0.44 min
 Lab File: VL036500.D
 Acq: 26 Mar 2021 00:19

Tgt Ion: 63 Resp: 924815
 Ion Ratio Lower Upper
 63 100
 41 0.0 62.4 93.6#
 62 18.4 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: 0.022 ppbv

RT: 6.06 Instrument:

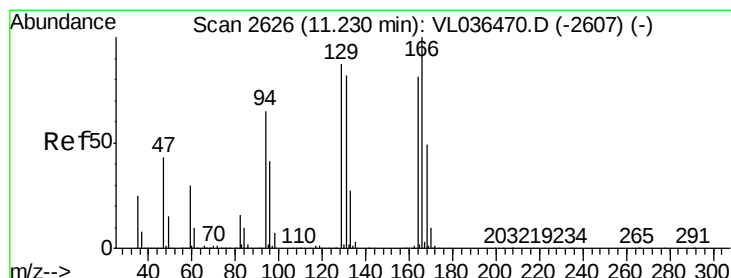
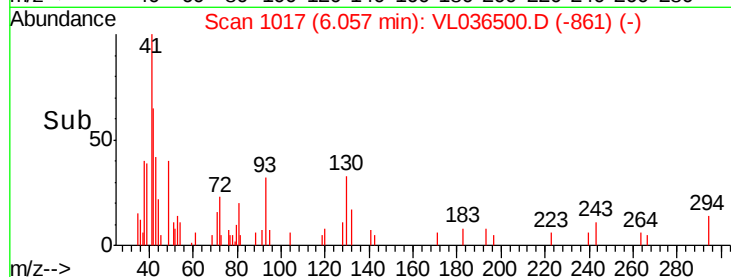
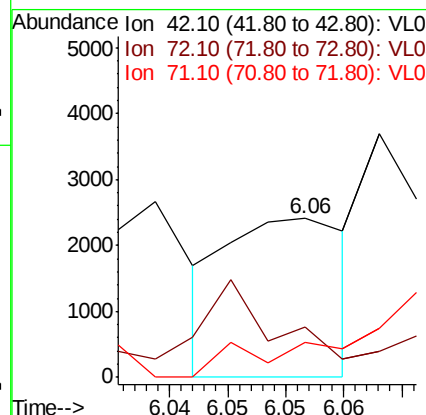
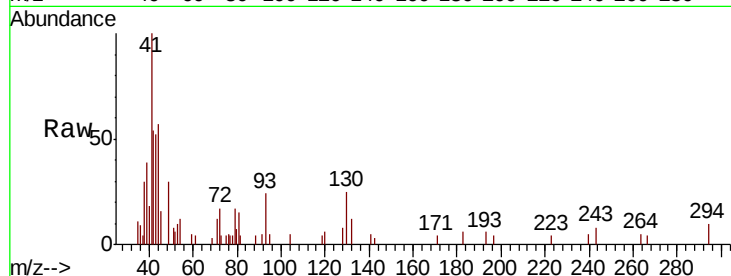
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 26 Mar 2021 00:19

Tot Ion: 42 Resp: 1743

Ion	Ratio	Lower	Upper
42	100		
72	104.9	27.6	41.4#
71	0.0	27.0	40.4#



#52

Tetrachloroethene

Concen: 0.311 ppbv

RT: 11.23 min Scan# 2626

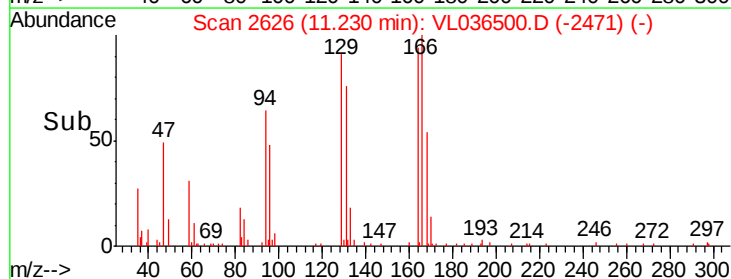
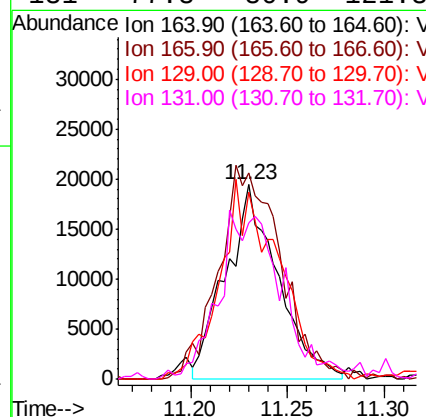
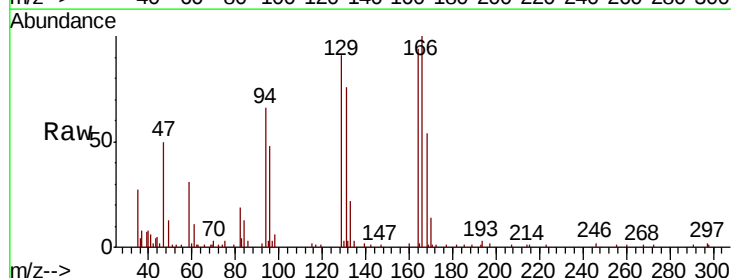
Delta R.T. -0.00 min

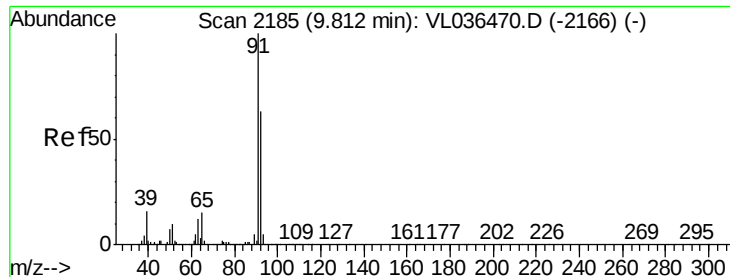
Lab File: VL036500.D

Acq: 26 Mar 2021 00:19

Tgt Ion: 164 Resp: 36315

Ion	Ratio	Lower	Upper
164	100		
166	104.2	98.3	147.5
129	95.6	85.8	128.8
131	77.8	80.9	121.3#





#53

Toluene

Concen: 0.317 ppbv

RT: 9.82 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

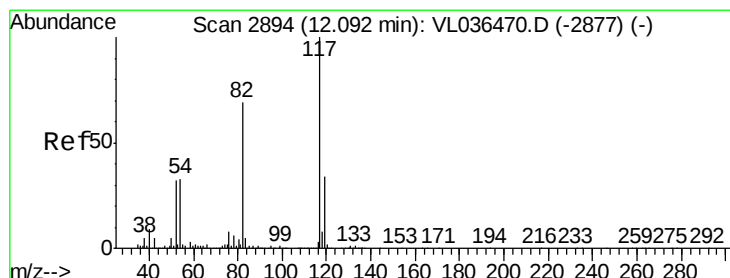
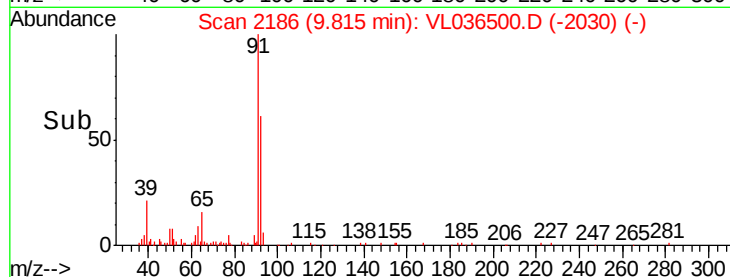
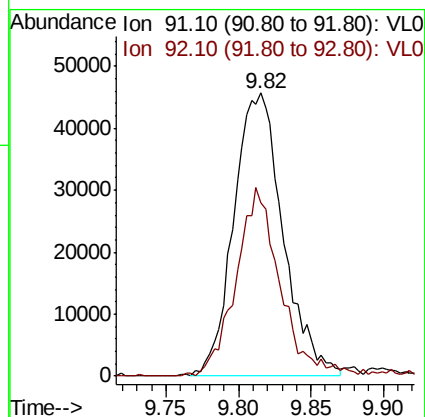
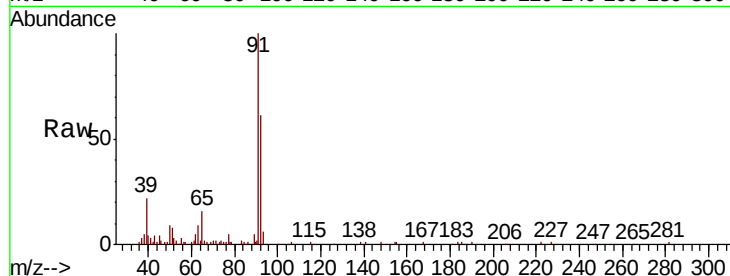
Acq: 26 Mar 2021 00:19

Tot Ion: 91 Resp: 107053

Ion Ratio Lower Upper

91 100

92 60.4 48.8 73.2



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2895

Delta R.T. 0.00 min

Lab File: VL036500.D

Acq: 26 Mar 2021 00:19

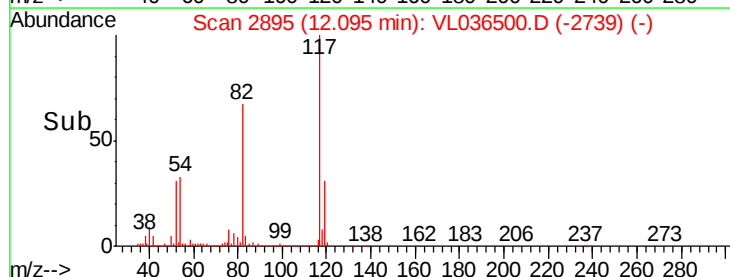
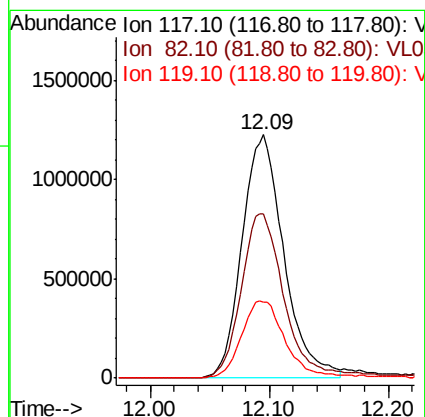
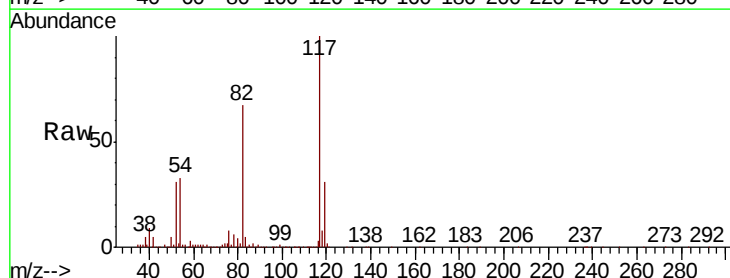
Tgt Ion: 117 Resp: 2982779

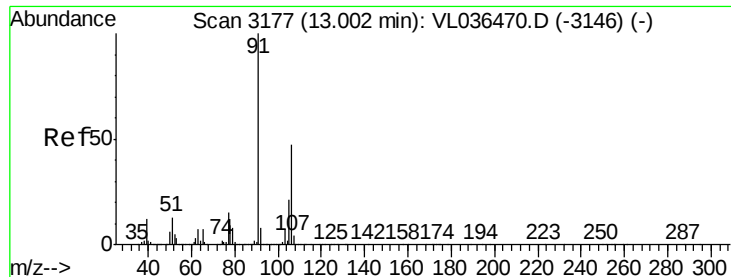
Ion Ratio Lower Upper

117 100

82 71.0 57.4 86.0

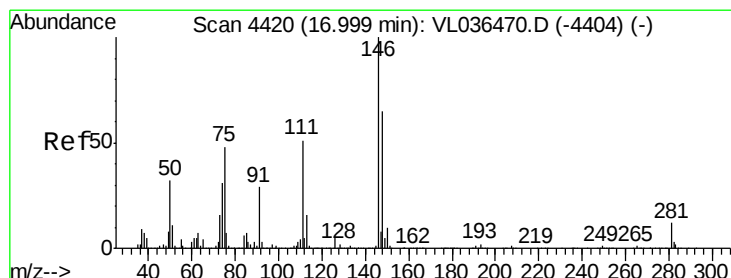
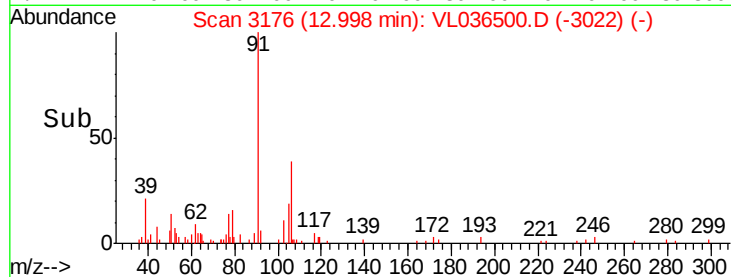
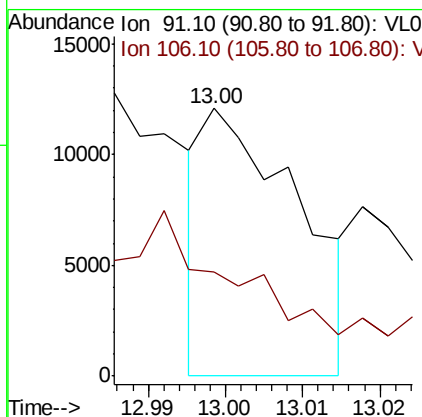
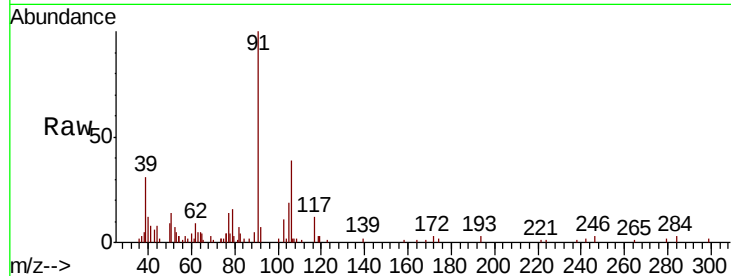
119 34.2 47.4 71.0#





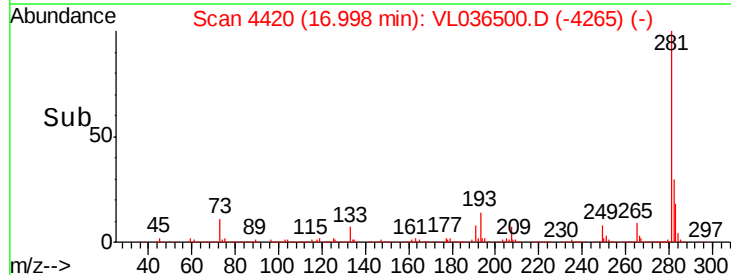
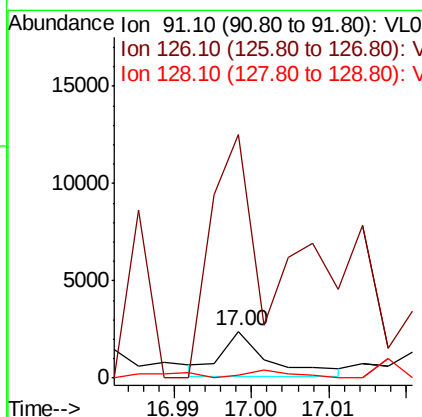
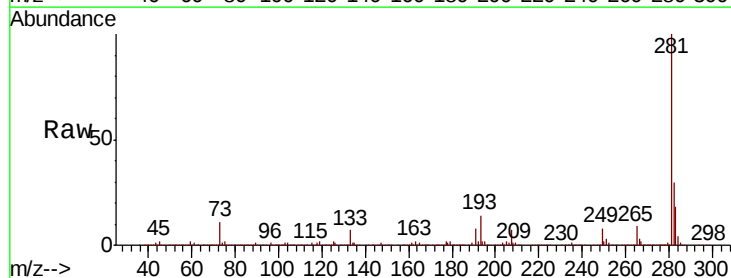
#59
m/p-Xylene
Concen: 0.027 ppbv
RT: 13.00 min
Delta R.T. MSVOA_1
Lab File: ClientSampleId :
Acq: 26 Mar 2021 00:19

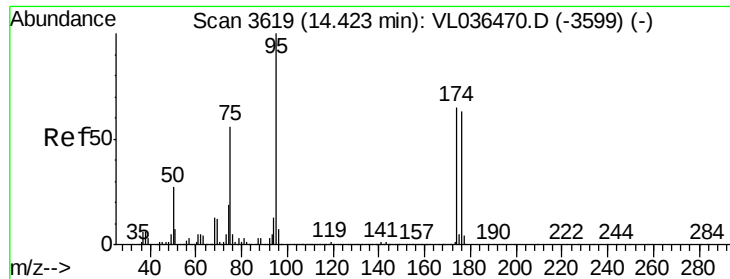
Tot Ion: 91 Resp: 10389
Ion Ratio Lower Upper
91 100
106 0.0 35.3 52.9#



#66
Benzyl Chloride
Concen: 0.021 ppbv
RT: 17.00 min Scan# 4420
Delta R.T. -0.00 min
Lab File: VL036500.D
Acq: 26 Mar 2021 00:19

Tgt Ion: 91 Resp: 981
Ion Ratio Lower Upper
91 100
126 2293.3 13.5 20.3#
128 18.3 4.2 6.4#

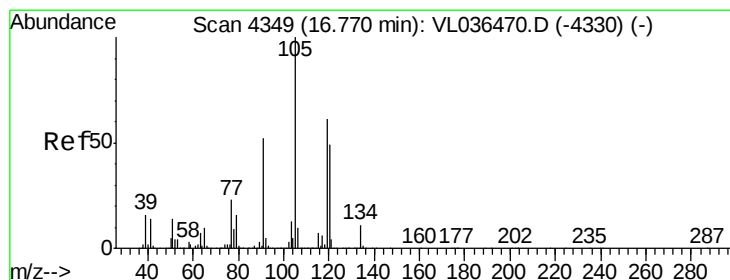
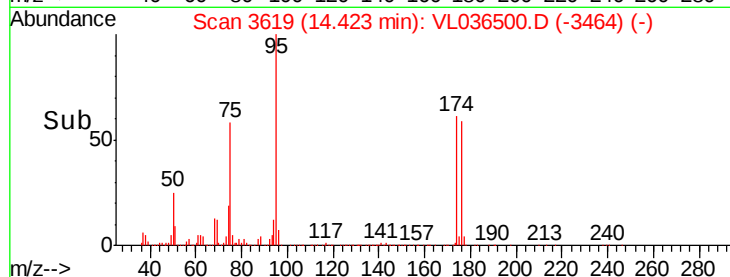
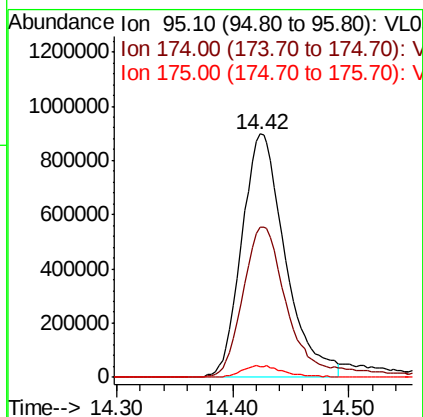
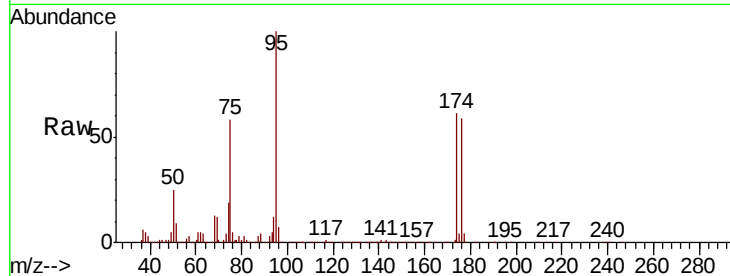




#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.850 ppbv
 RT: 14.42 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 26 Mar 2021 00:19

Tot Ion: 95 Resp: 2341662

Ion	Ratio	Lower	Upper
95	100		
174	67.0	51.0	76.6
175	5.0	3.9	5.9



#74
 1,2,4-Trimethylbenzene
 Concen: 0.052 ppbv
 RT: 16.77 min Scan# 4350
 Delta R.T. 0.00 min
 Lab File: VL036500.D
 Acq: 26 Mar 2021 00:19

Tgt Ion: 105 Resp: 20886

Ion	Ratio	Lower	Upper
105	100		
120	48.7	39.2	58.8
91	18.4	42.6	64.0#
77	8.3	18.6	28.0#

