

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL011321\
 Data File : VL036220.D
 Acq On : 13 Jan 2021 11:19
 Operator : SY/AP
 Sample : M1066-01 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 0121-SS5DL

Quant Time: Jan 13 22:06:13 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL011321AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jan 13 07:53:51 2021
 QLast Update : Wed Jan 13 07:53:51 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1535340	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3263730	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2910064	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2460620	10.22	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.20%

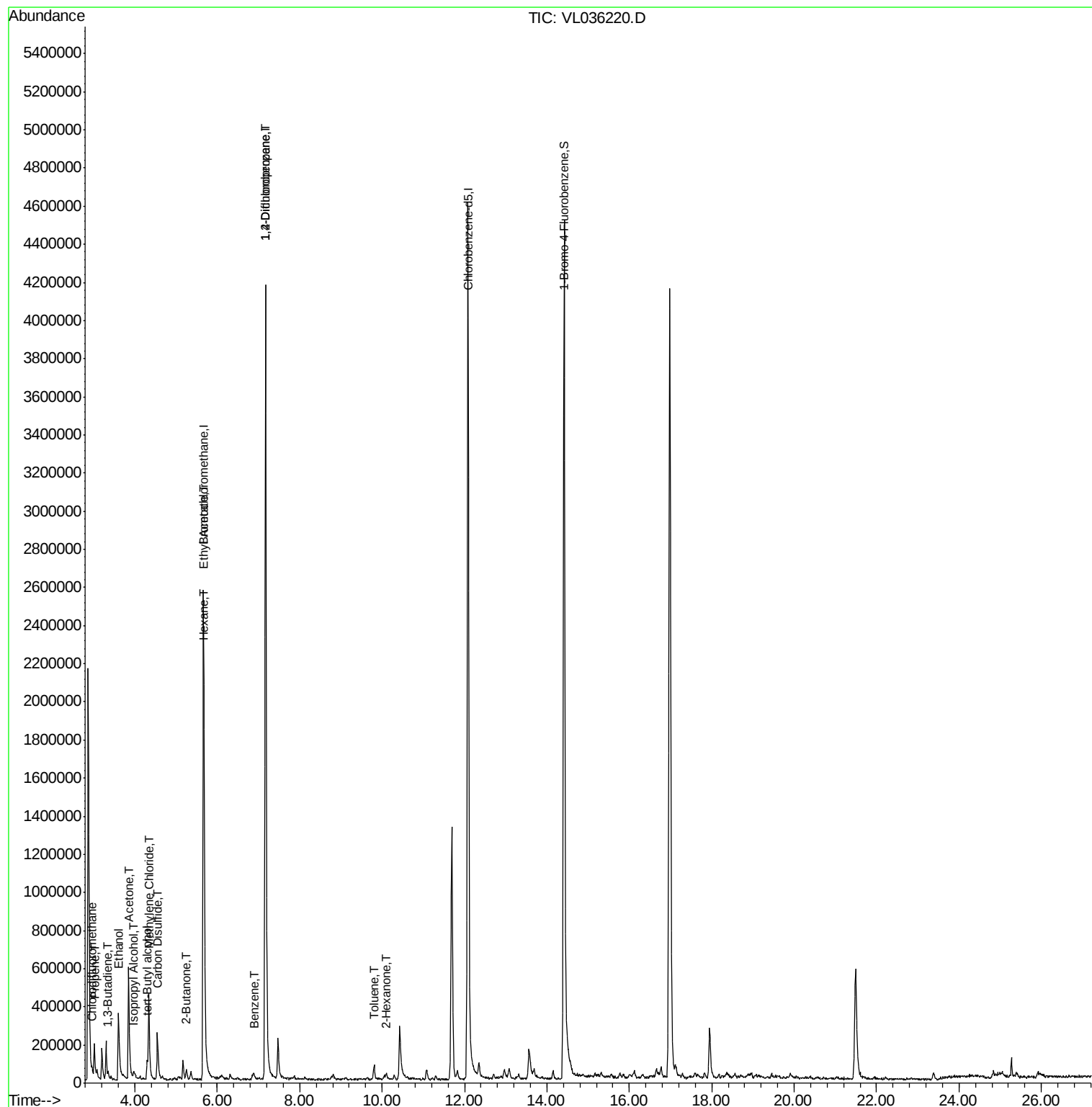
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.95	51	42603	0.224	ppbv #	60
9) Propene	3.01	41	34199	0.377	ppbv	95
13) Ethanol	3.60	45	457942	24.028	ppbv	90
15) Acetone	3.85	43	743574	4.078	ppbv	97
16) 1,3-Butadiene	3.34	39	3422	0.039	ppbv #	10
17) tert-Butyl alcohol	4.30	59	87630	0.587	ppbv #	90
19) Isopropyl Alcohol	3.98	45	15476	0.147	ppbv #	93
20) Methylene Chloride	4.34	84	142691	2.555	ppbv	97
25) Ethyl Acetate	5.68	43	73311	0.197	ppbv #	82
26) Hexane	5.68	57	217088	1.398	ppbv #	39
27) Carbon Disulfide	4.55	76	344289	2.758	ppbv	98
34) 2-Butanone	5.25	43	42153	0.203	ppbv #	41
36) Benzene	6.89	78	9915	0.033	ppbv #	87
39) 1,2-Dichloropropane	7.17	63	968119	7.973	ppbv #	21
51) 2-Hexanone	10.10	43	9136	0.034	ppbv #	87
53) Toluene	9.80	91	18528	0.056	ppbv #	20

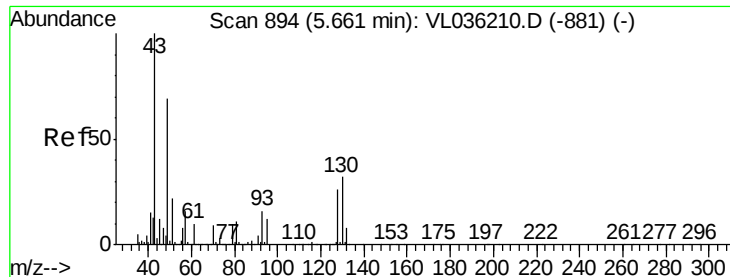
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jan 13 07:53:51 2021
QLast Update : Wed Jan 13 07:53:51 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.00 min

Lab File: VL036220.D

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Instrument :

MSVOA_L

ClientSampleId :

0121-SS5DL

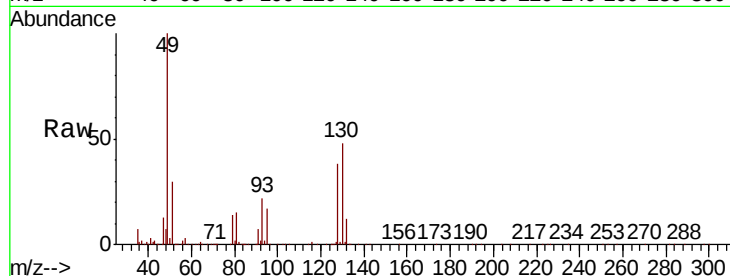
Tot Ion: 49 Resp: 1535340

Ion Ratio Lower Upper

49 100

128 40.2 20.1 60.2

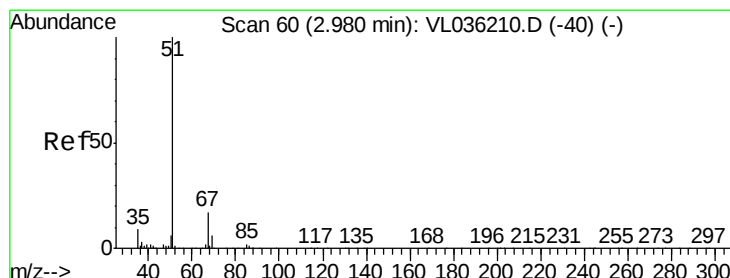
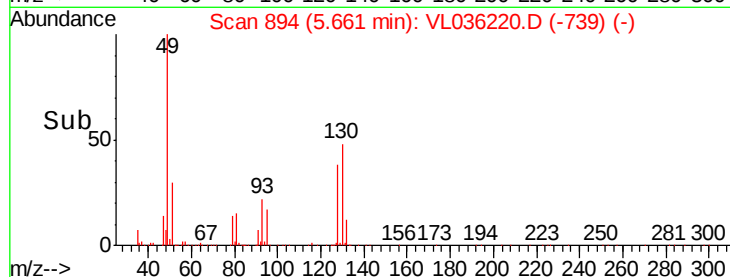
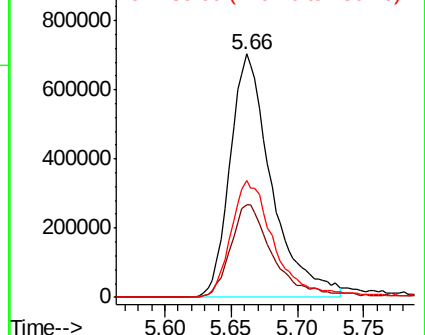
130 51.7 25.3 75.9



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#3

Chlorodifluoromethane

Concen: 0.224 ppbv

RT: 2.95 min Scan# 52

Delta R.T. -0.03 min

Lab File: VL036220.D

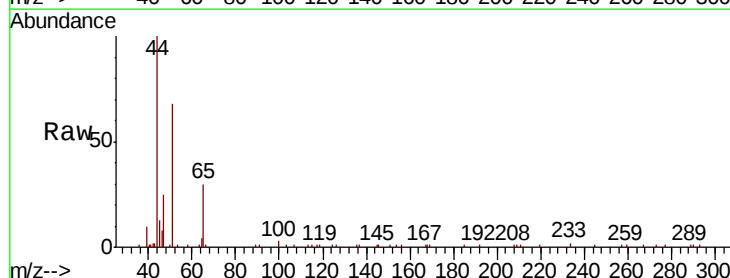
Acq: 13 Jan 2021 11:19

Tgt Ion: 51 Resp: 42603

Ion Ratio Lower Upper

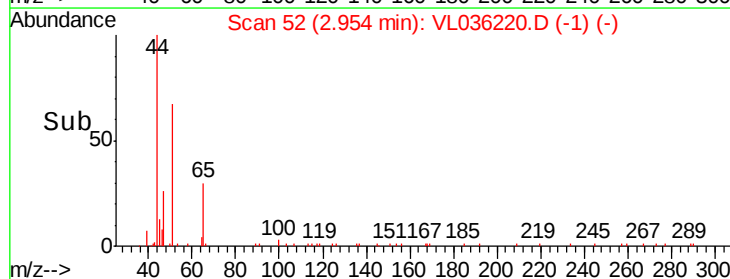
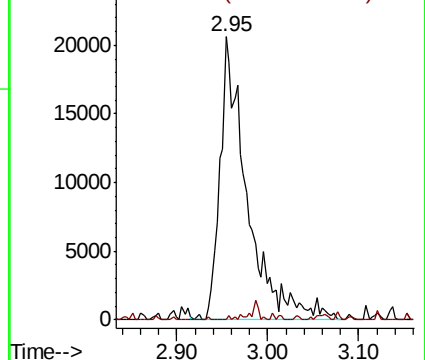
51 100

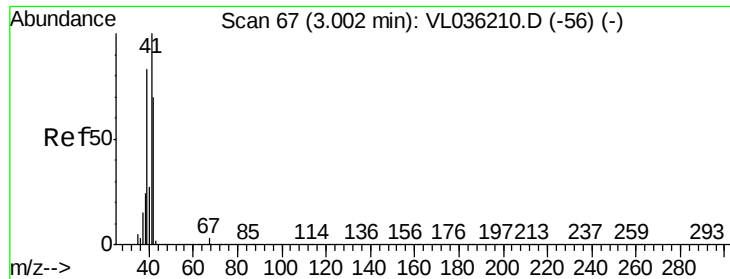
67 0.1 14.0 21.0#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 0.377 ppbv

RT: 3.01 min Scan# 68

Delta R.T. 0.00 min

Lab File: VL036220.D

Acq: 13 Jan 2021 11:19

Instrument :

MSVOA_L

ClientSampleId :

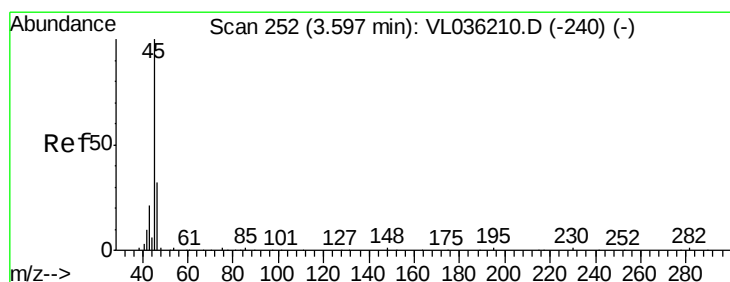
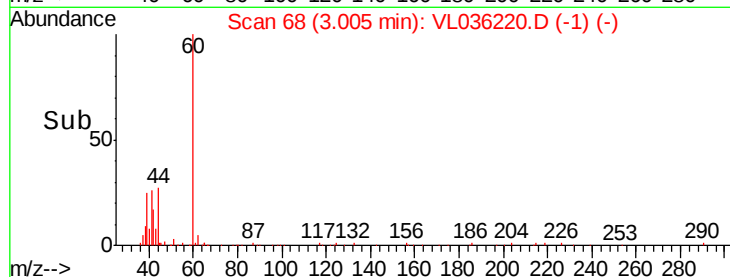
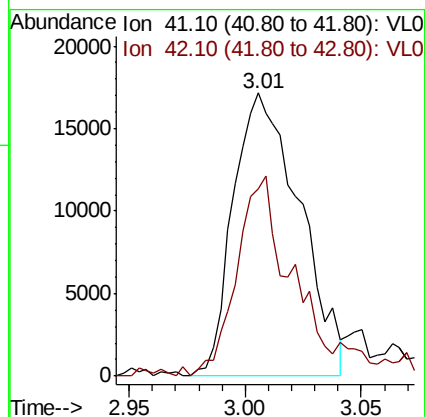
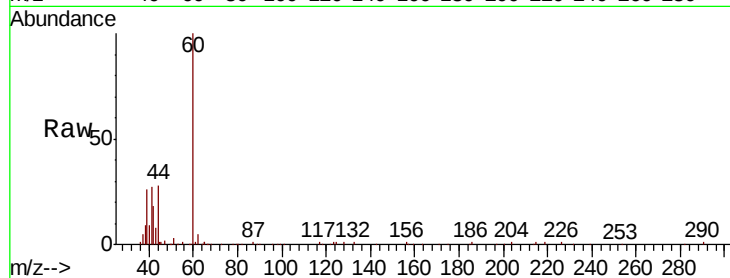
0121-SS5DL

Tot Ion: 41 Resp: 34199

Ion Ratio Lower Upper

41 100

42 67.5 57.1 85.7



#13

Ethanol

Concen: 24.028 ppbv

RT: 3.60 min Scan# 253

Delta R.T. 0.00 min

Lab File: VL036220.D

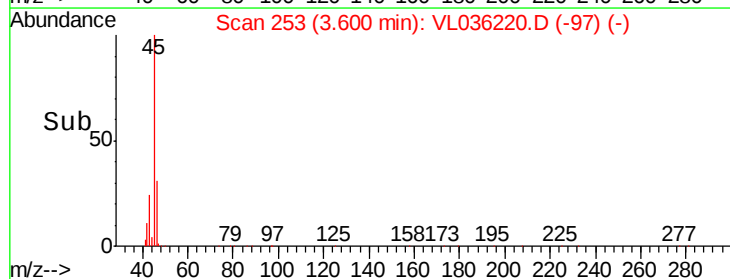
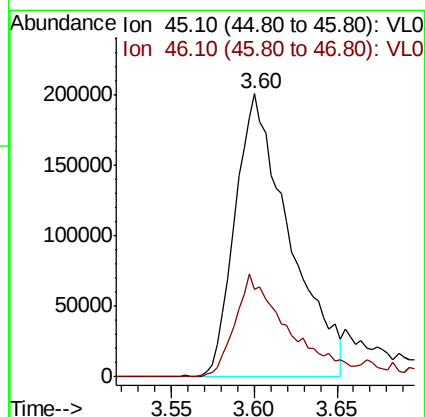
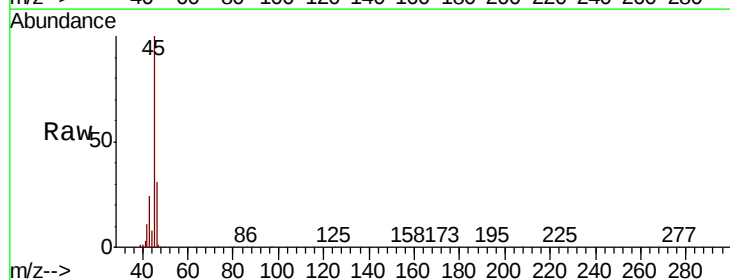
Acq: 13 Jan 2021 11:19

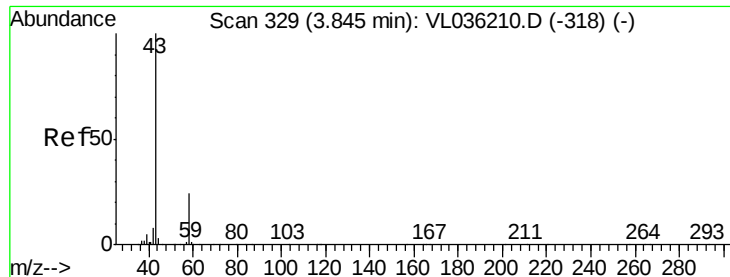
Tgt Ion: 45 Resp: 457942

Ion Ratio Lower Upper

45 100

46 41.3 19.2 77.0





#15

Acetone

Concen: 4.078 ppbv

RT: 3.85 min Scan# 330

Delta R.T. 0.00 min

Lab File: VL036220.D

Acq: 13 Jan 2021 11:19

Instrument :

MSVOA_L

ClientSampleId :

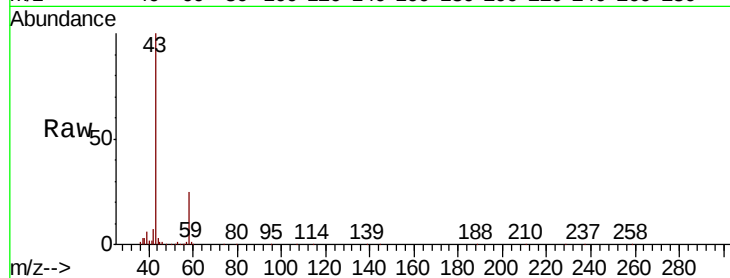
0121-SS5DL

Tot Ion: 43 Resp: 743574

Ion Ratio Lower Upper

43 100

58 27.8 20.9 31.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.85

400000

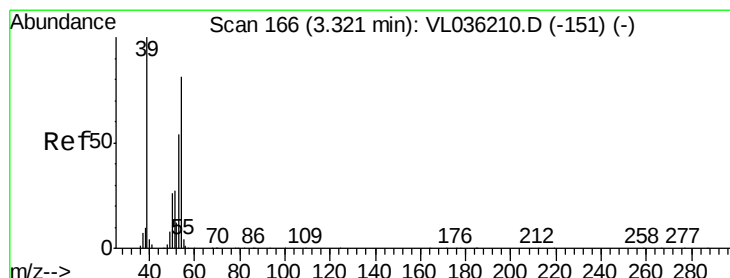
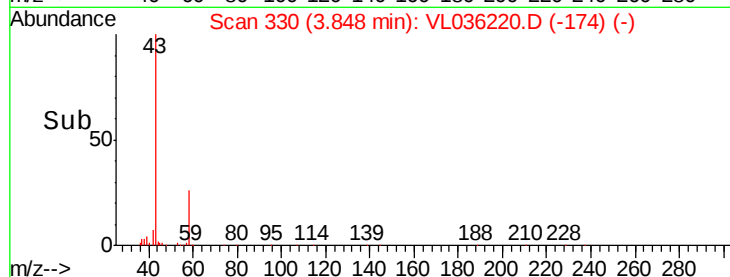
300000

200000

100000

0

Time-->



#16

1,3-Butadiene

Concen: 0.039 ppbv

RT: 3.34 min Scan# 172

Delta R.T. 0.02 min

Lab File: VL036220.D

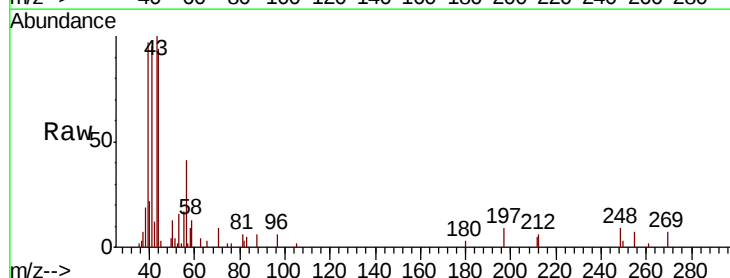
Acq: 13 Jan 2021 11:19

Tgt Ion: 39 Resp: 3422

Ion Ratio Lower Upper

39 100

54 0.0 62.5 93.7#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.34

8000

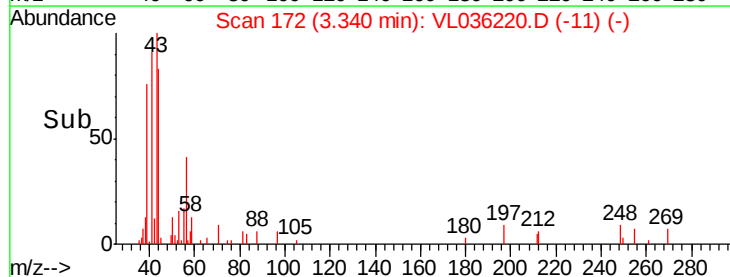
6000

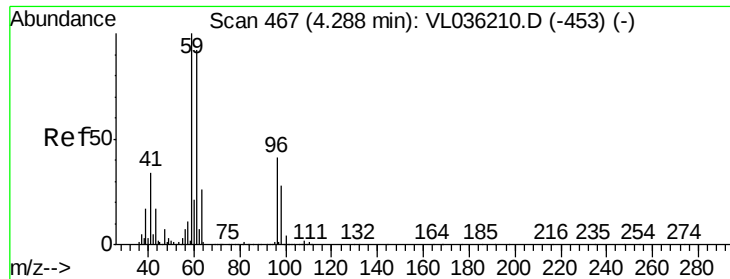
4000

2000

0

Time-->





#17

tert-Butyl alcohol

Concen: 0.587 ppbv

RT: 4.30 min Scan# 471

Delta R.T. 0.01 min

Lab File: VL036220.D

Acq: 13 Jan 2021 11:19

Instrument :

MSVOA_L

ClientSampleId :

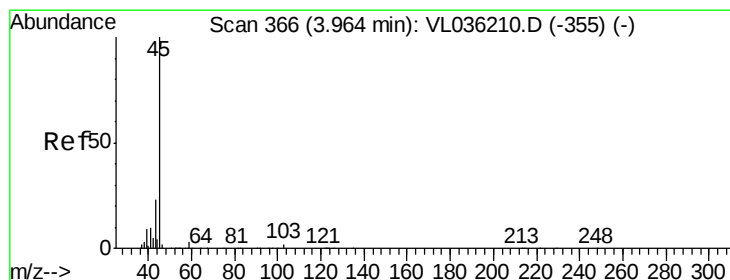
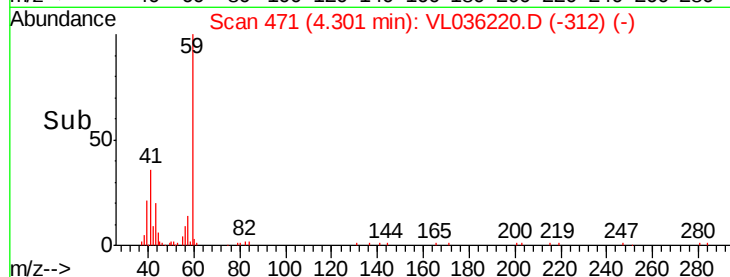
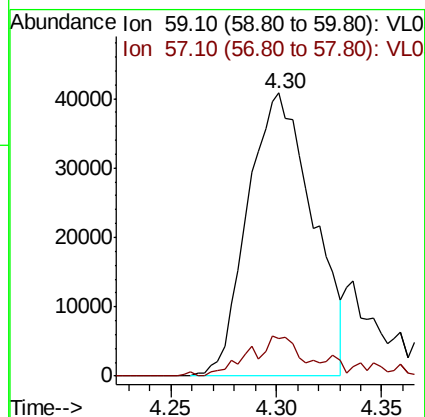
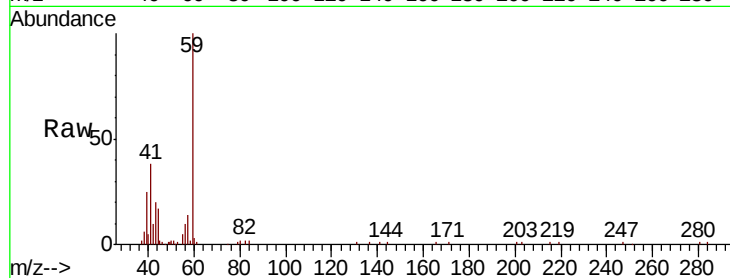
0121-SS5DL

Tot Ion: 59 Resp: 87630

Ion Ratio Lower Upper

59 100

57 15.3 9.2 13.8#



#19

Isopropyl Alcohol

Concen: 0.147 ppbv

RT: 3.98 min Scan# 370

Delta R.T. 0.01 min

Lab File: VL036220.D

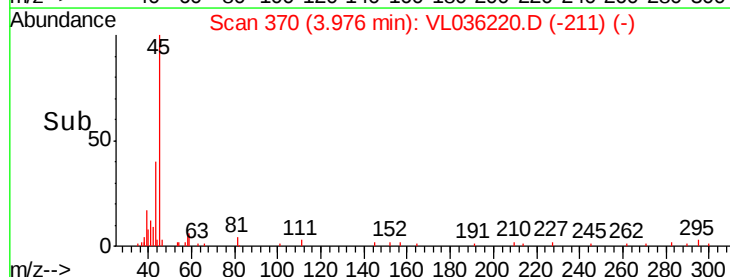
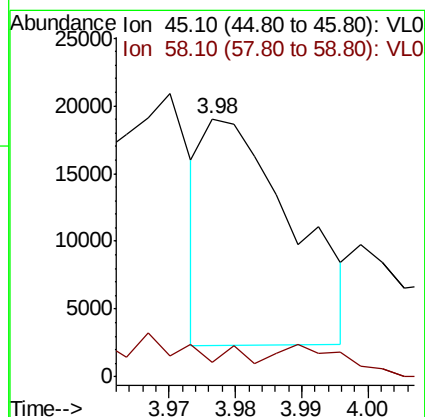
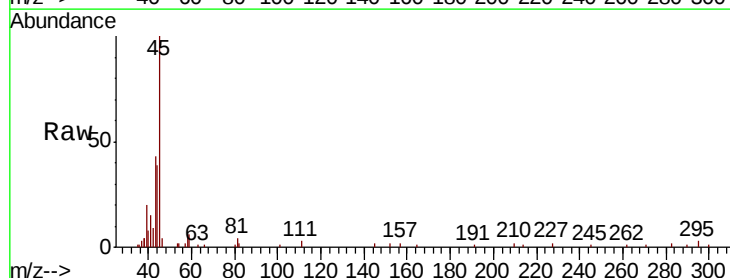
Acq: 13 Jan 2021 11:19

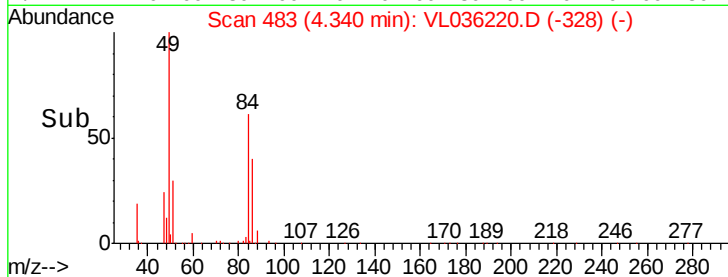
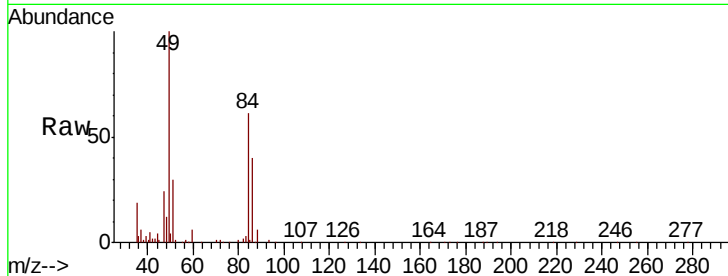
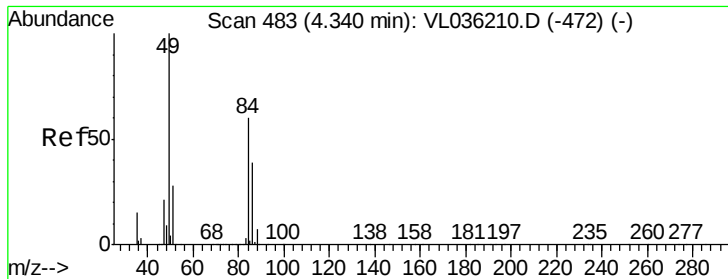
Tgt Ion: 45 Resp: 15476

Ion Ratio Lower Upper

45 100

58 0.0 1.9 2.9#

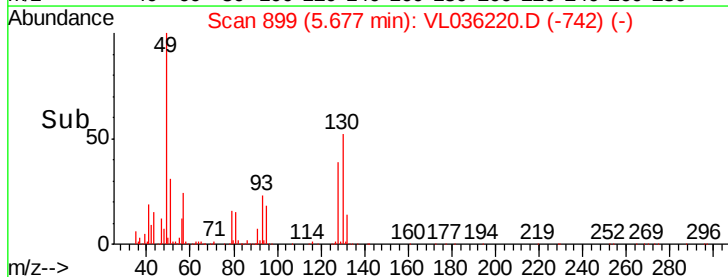
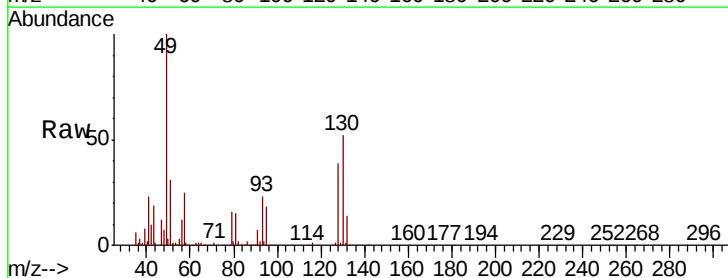
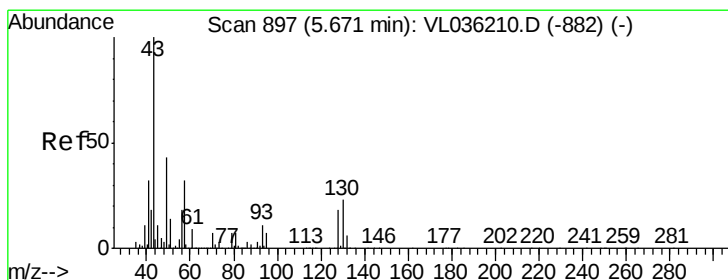
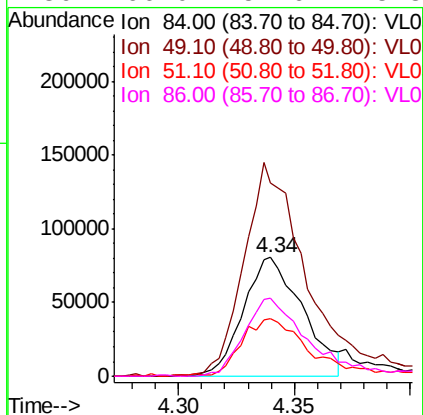




#20
Methylene Chloride
Concen: 2.555 ppbv
RT: 4.34 min Scan# 483
Delta R.T. -0.00 min
Lab File: VL036220.D
Acq: 13 Jan 2021 11:19

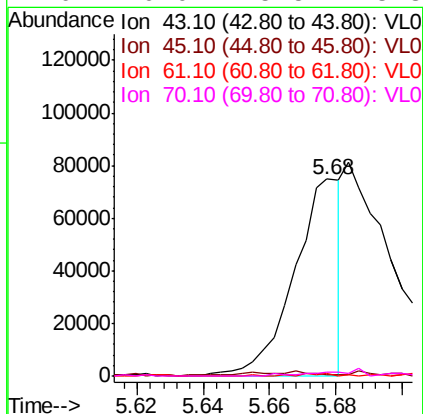
Instrument :
MSVOA_L
ClientSampleId :
0121-SS5DL

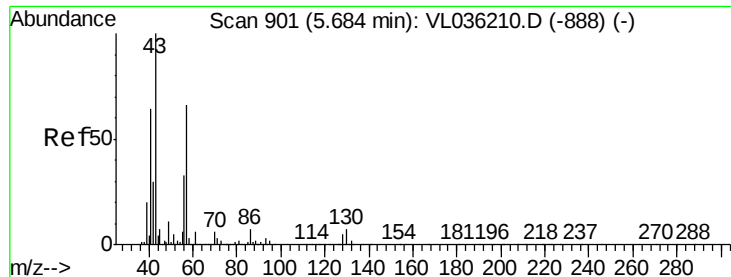
Tot Ion:	84	Resp:	142691
Ion	Ratio	Lower	Upper
84	100		
49	162.7	134.1	201.1
51	48.4	37.4	56.0
86	66.0	52.6	78.8



#25
Ethyl Acetate
Concen: 0.197 ppbv
RT: 5.68 min Scan# 899
Delta R.T. 0.01 min
Lab File: VL036220.D
Acq: 13 Jan 2021 11:19

Tgt Ion:	43	Resp:	73311
Ion	Ratio	Lower	Upper
43	100		
45	4.7	8.3	12.5#
61	2.0	7.4	11.2#
70	0.0	5.5	8.3#

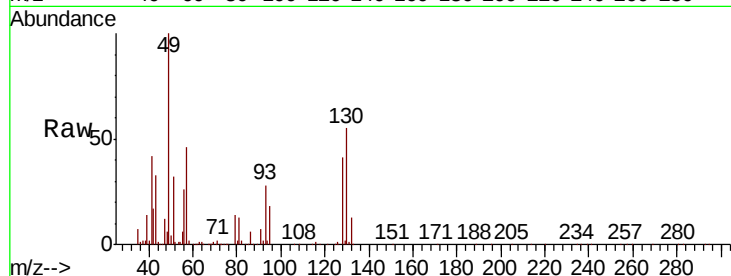




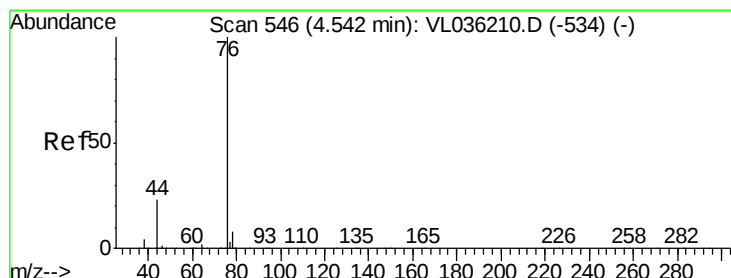
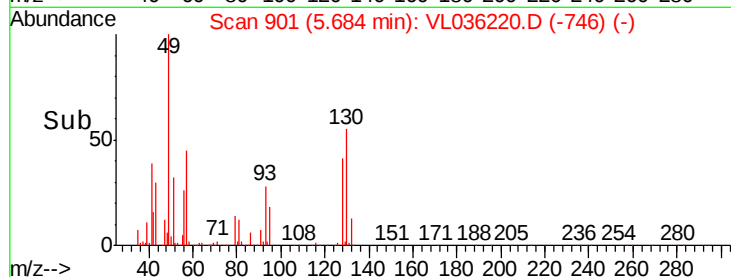
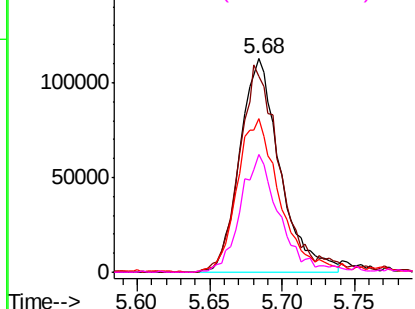
#26
Hexane
Concen: 1.398 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.00 min
Lab File: VL036220.D
Acq: 13 Jan 2021 11:19

Instrument :
MSVOA_L
ClientSampleId :
0121-SS5DL

Tot Ion: 57 Resp: 217088
Ion Ratio Lower Upper
57 100
41 103.0 83.0 124.6
43 79.2 202.4 303.6#
56 54.3 43.4 65.0

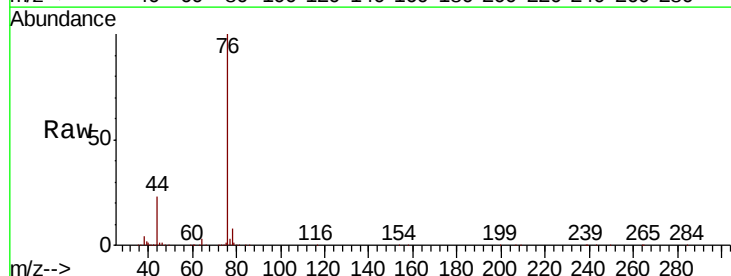


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

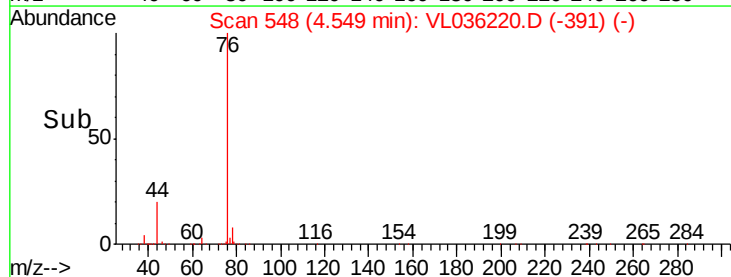
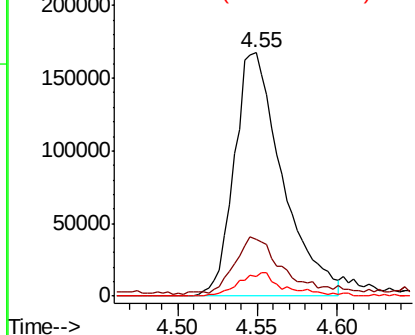


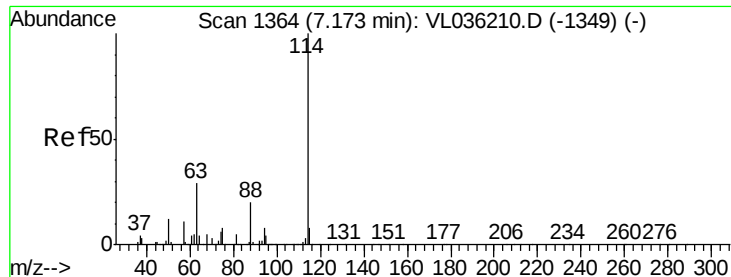
#27
Carbon Disulfide
Concen: 2.758 ppbv
RT: 4.55 min Scan# 548
Delta R.T. 0.01 min
Lab File: VL036220.D
Acq: 13 Jan 2021 11:19

Tgt Ion: 76 Resp: 344289
Ion Ratio Lower Upper
76 100
44 25.0 19.0 28.6
78 9.2 8.0 12.0



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

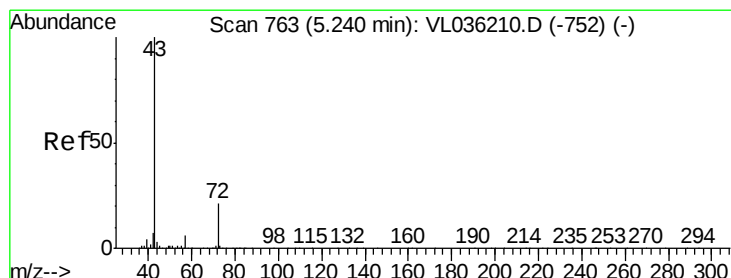
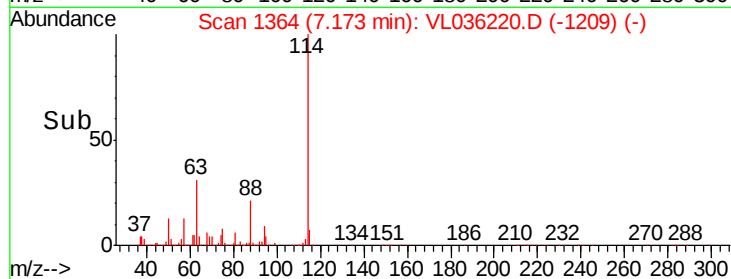
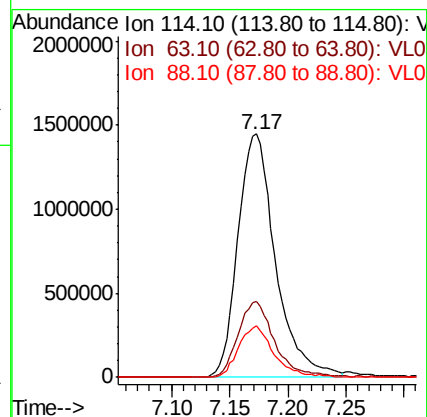
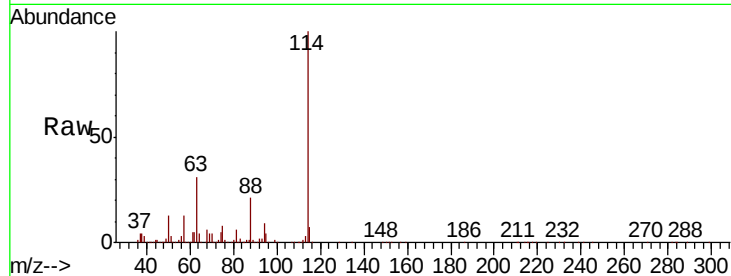




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1364
 Delta R.T. -0.00 min
 Lab File: VL036220.D
 Acq: 13 Jan 2021 11:19

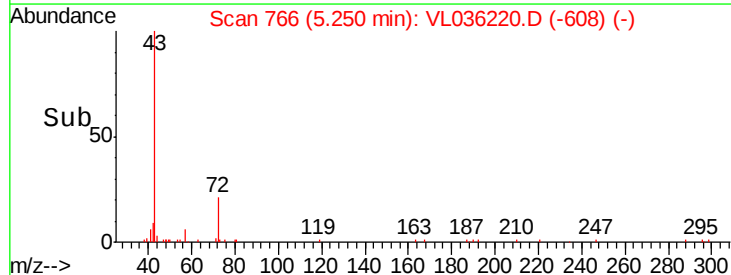
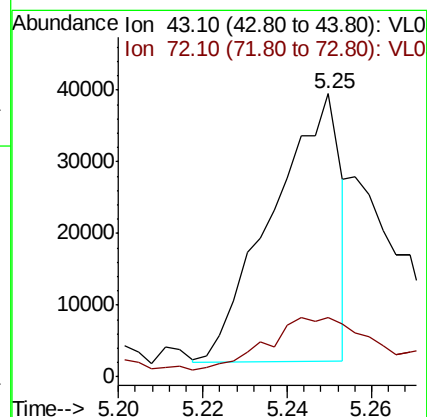
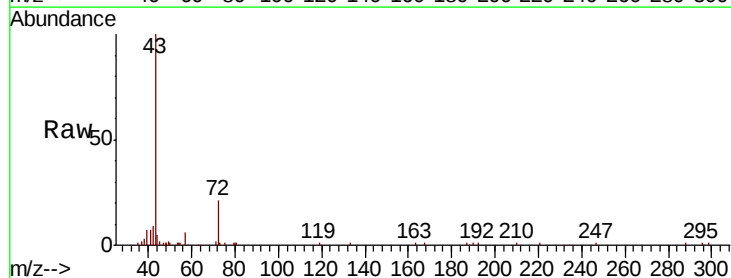
Instrument :
 MSVOA_L
 ClientSampleId :
 0121-SS5DL

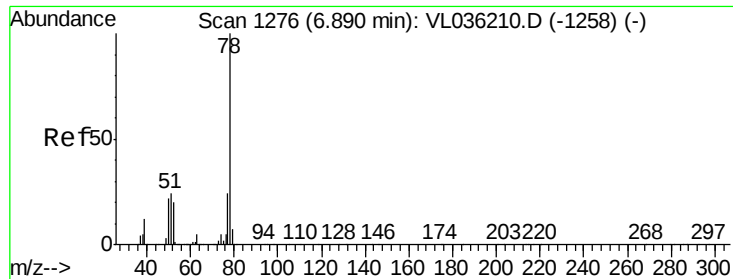
Tot Ion:114 Resp: 3263730
 Ion Ratio Lower Upper
 114 100
 63 30.8 24.7 37.1
 88 20.4 16.6 24.8



#34
 2-Butanone
 Concen: 0.203 ppbv
 RT: 5.25 min Scan# 766
 Delta R.T. 0.01 min
 Lab File: VL036220.D
 Acq: 13 Jan 2021 11:19

Tgt Ion: 43 Resp: 42153
 Ion Ratio Lower Upper
 43 100
 72 47.1 16.1 24.1#





#36

Benzene

Concen: 0.033 ppbv

RT: 6.89 min Scan# 1275

Delta R.T. -0.00 min

Lab File: VL036220.D

Acq: 13 Jan 2021 11:19

Instrument :

MSVOA_L

ClientSampleId :

0121-SS5DL

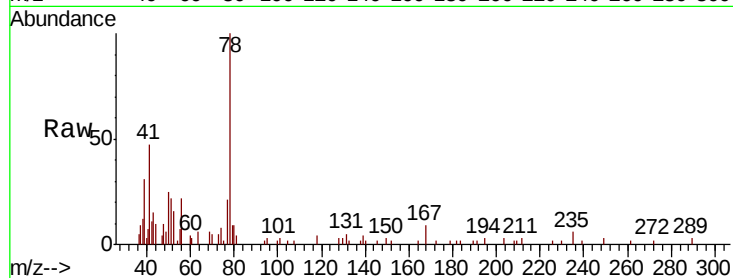
Tot Ion: 78 Resp: 9915

Ion Ratio Lower Upper

78 100

77 12.9 19.4 29.0#

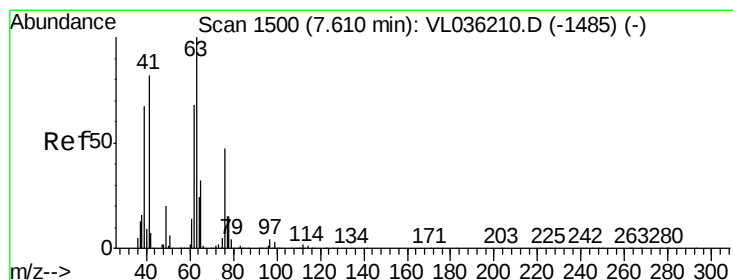
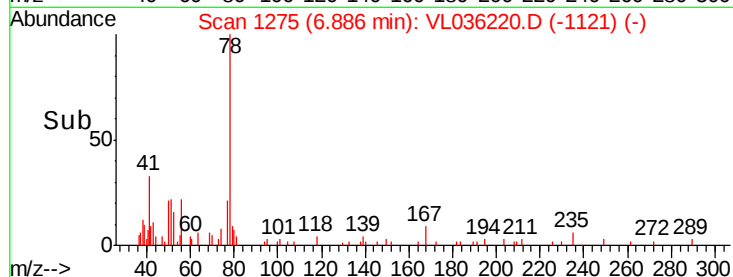
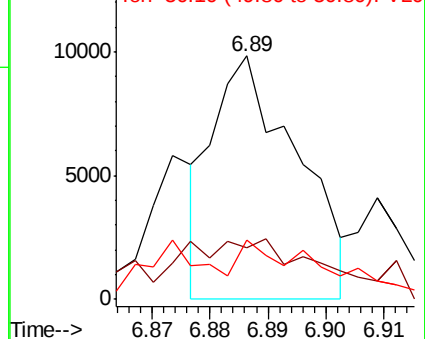
50 20.4 17.4 26.2



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



#39

1,2-Dichloropropane

Concen: 7.973 ppbv

RT: 7.17 min Scan# 1364

Delta R.T. -0.44 min

Lab File: VL036220.D

Acq: 13 Jan 2021 11:19

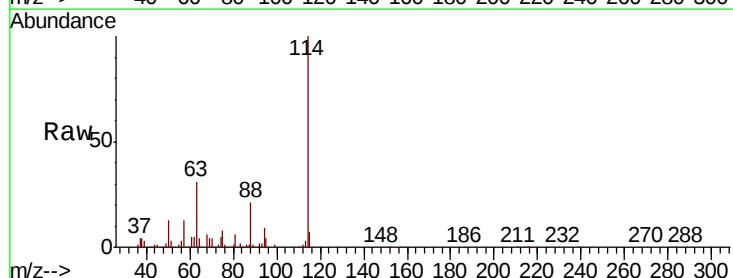
Tgt Ion: 63 Resp: 968119

Ion Ratio Lower Upper

63 100

41 0.2 66.1 99.1#

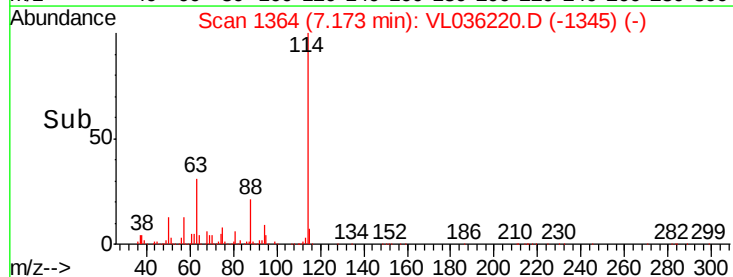
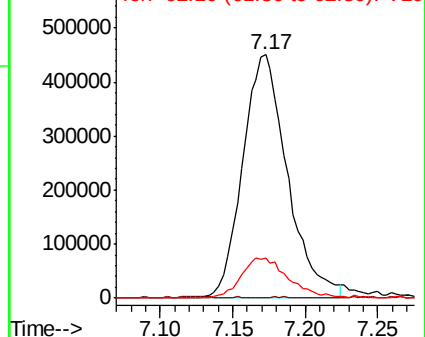
62 16.3 54.8 82.2#

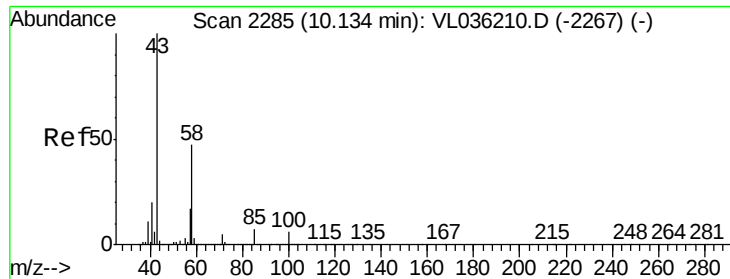


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0

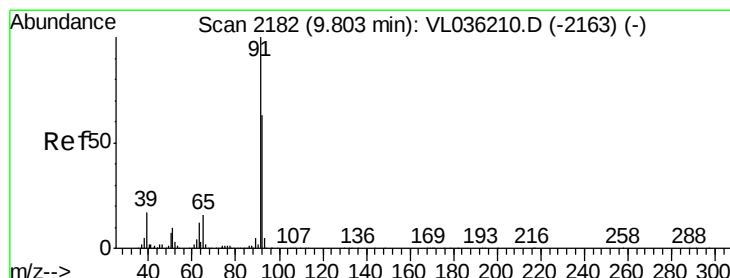
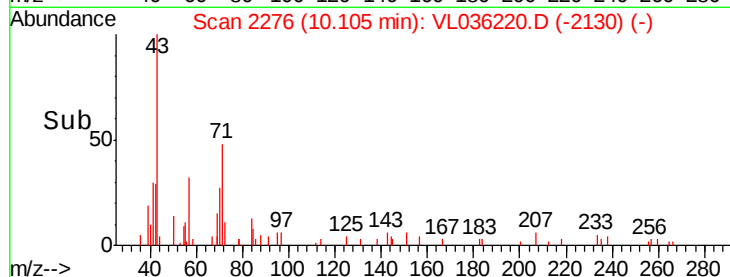
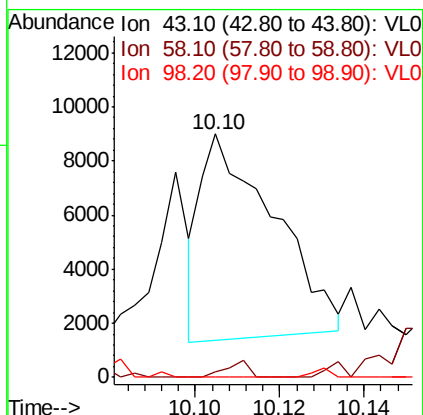
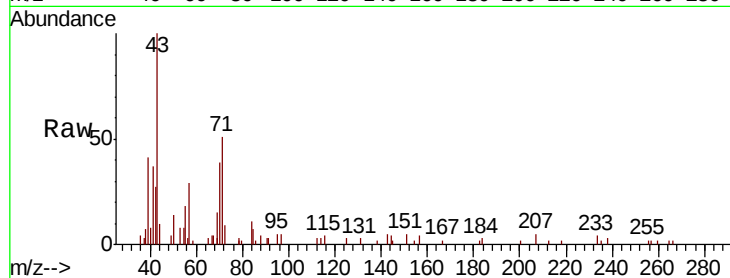




#51
2-Hexanone
Concen: 0.034 ppbv
RT: 10.10 min Scan# 2276
Delta R.T. -0.03 min
Lab File: VL036220.D
Acq: 13 Jan 2021 11:19

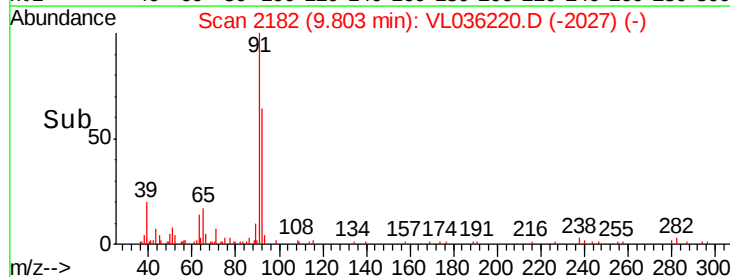
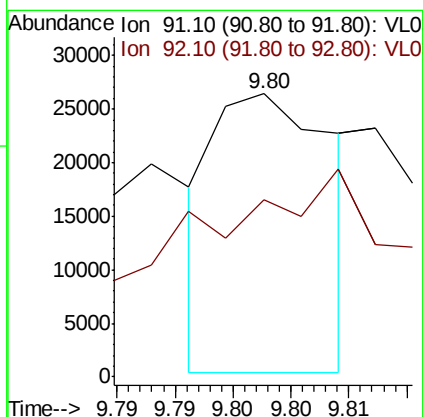
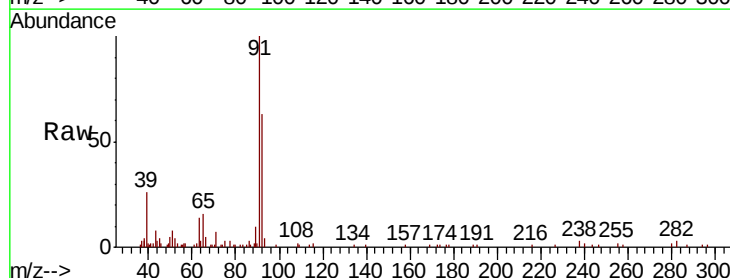
Instrument :
MSVOA_L
ClientSampleId :
0121-SS5DL

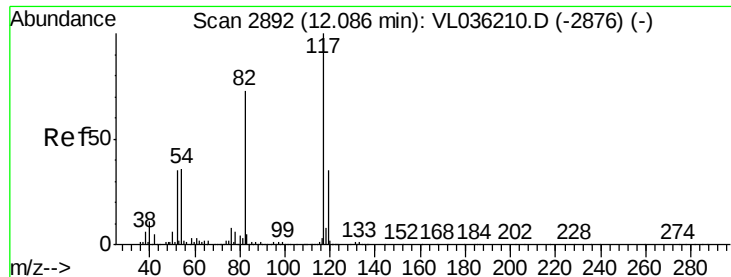
Tot Ion: 43 Resp: 9136
Ion Ratio Lower Upper
43 100
58 37.9 37.4 56.0
98 2.1 0.2 0.2#



#53
Toluene
Concen: 0.056 ppbv
RT: 9.80 min Scan# 2182
Delta R.T. -0.00 min
Lab File: VL036220.D
Acq: 13 Jan 2021 11:19

Tgt Ion: 91 Resp: 18528
Ion Ratio Lower Upper
91 100
92 0.0 48.5 72.7#

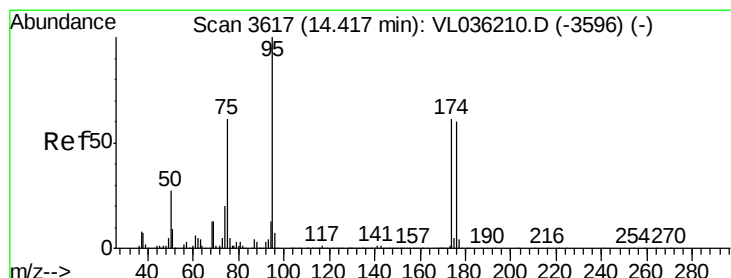
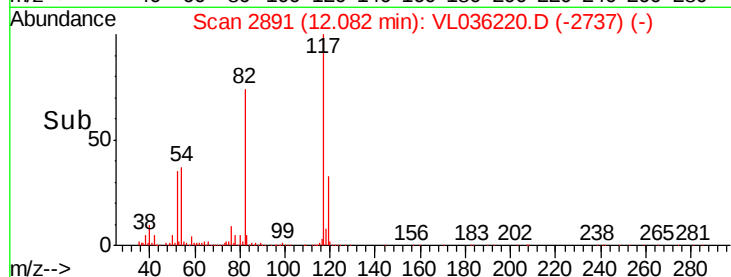
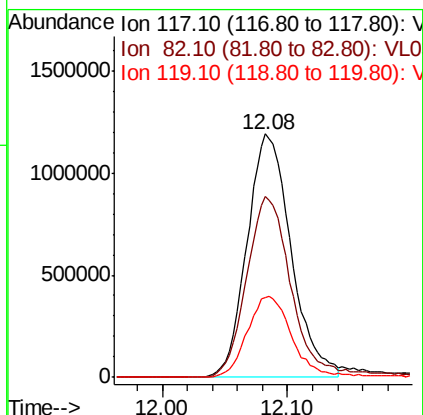
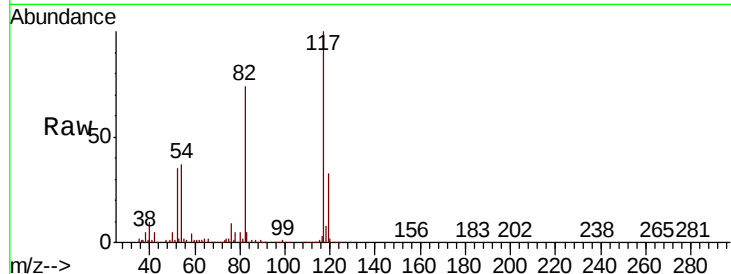




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min Scan# 2891
Delta R.T. -0.00 min
Lab File: VL036220.D
Acq: 13 Jan 2021 11:19

Instrument :
MSVOA_L
ClientSampleId :
0121-SS5DL

Tot Ion:117 Resp: 2910064
Ion Ratio Lower Upper
117 100
82 77.2 59.7 89.5
119 34.4 28.6 43.0



#68
1-Bromo-4-Fluorobenzene
Concen: 10.215 ppbv
RT: 14.41 min Scan# 3616
Delta R.T. -0.00 min
Lab File: VL036220.D
Acq: 13 Jan 2021 11:19

Tgt Ion: 95 Resp: 2460620
Ion Ratio Lower Upper
95 100
174 63.8 49.4 74.0
175 4.5 3.8 5.8

