

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL073021\
 Data File : VL037301.D
 Acq On : 31 Jul 2021 3:19
 Operator : SY/AP
 Sample : M3121-02
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 31 05:02:06 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL073021AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 30 23:19:30 2021
 QLast Update : Fri Jul 30 23:19:30 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1156535	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3585389	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.09	117	3181136	10.00	ppbv	-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	2259801	9.76	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.60%

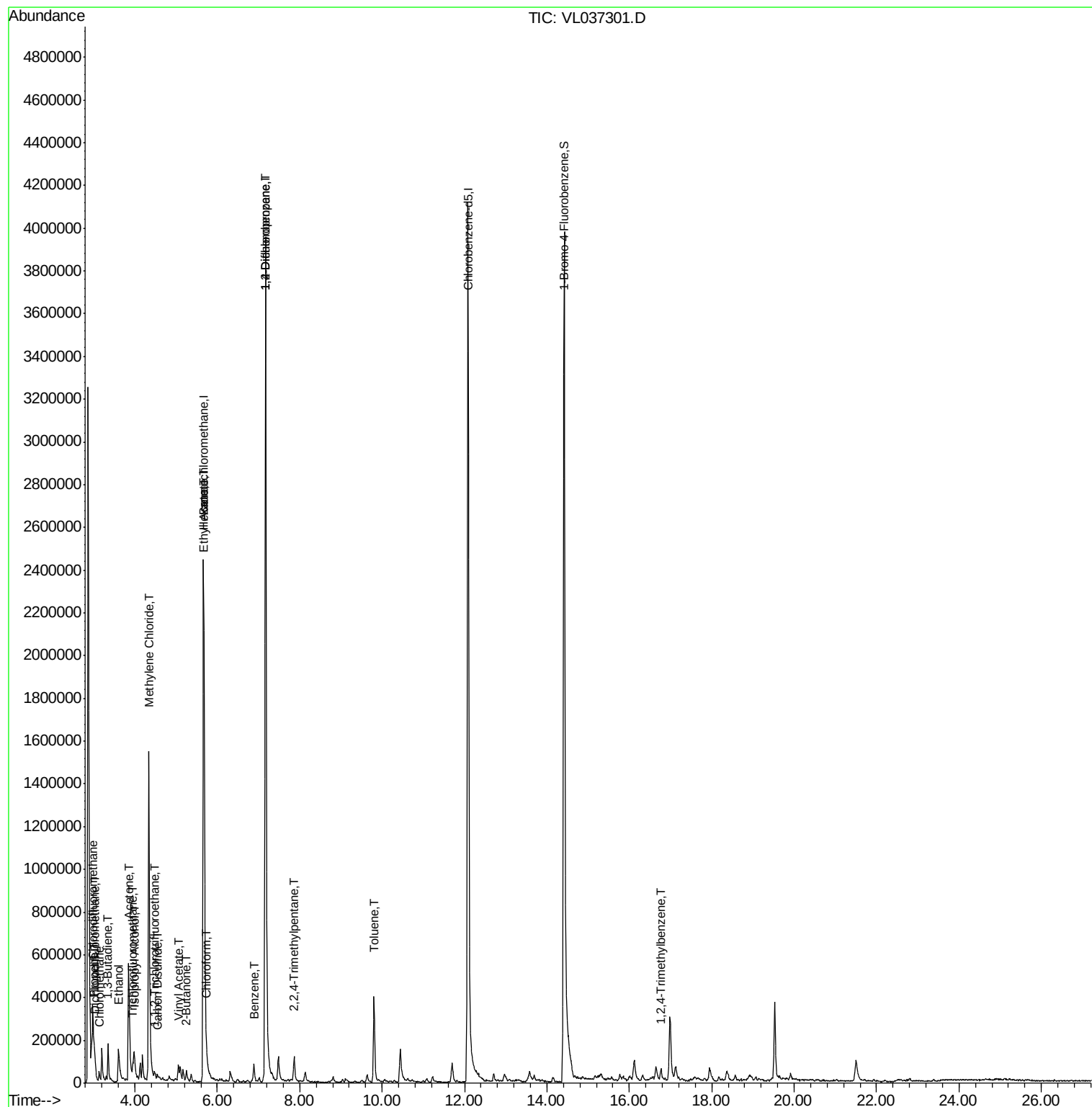
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.04	85	48933	0.294	ppbv 92
3) Chlorodifluoromethane	2.98	51	533590	2.302	ppbv # 89
4) Chloromethane	3.13	50	38565	0.477	ppbv 97
9) Propene	3.02	41	31456	0.403	ppbv 90
11) Trichlorofluoromethane	3.94	101	49244	0.238	ppbv 95
12) 1,1,2-Trichlorotrifluoroet	4.48	101	7723	0.050	ppbv # 66
13) Ethanol	3.61	45	231035	13.484	ppbv 99
15) Acetone	3.84	43	769839	3.696	ppbv 96
16) 1,3-Butadiene	3.35	39	24497	0.313	ppbv # 20
19) Isopropyl Alcohol	3.98	45	175668	2.180	ppbv # 94
20) Methylene Chloride	4.34	84	723831	8.979	ppbv 96
23) Vinyl Acetate	5.07	43	9873	0.056	ppbv # 48
25) Ethyl Acetate	5.68	43	323442	1.070	ppbv # 81
26) Hexane	5.68	57	430998	2.668	ppbv # 54
27) Carbon Disulfide	4.55	76	19465	0.146	ppbv # 38
29) Chloroform	5.74	83	15709	0.068	ppbv # 77
34) 2-Butanone	5.25	43	40538	0.264	ppbv # 55
36) Benzene	6.89	78	65367	0.215	ppbv # 95
39) 1,2-Dichloropropane	7.17	63	803312	7.037	ppbv # 25
44) 2,2,4-Trimethylpentane	7.87	57	97233	0.196	ppbv # 86
53) Toluene	9.80	91	314759	0.882	ppbv 97
74) 1,2,4-Trimethylbenzene	16.76	105	15503	0.036	ppbv # 77

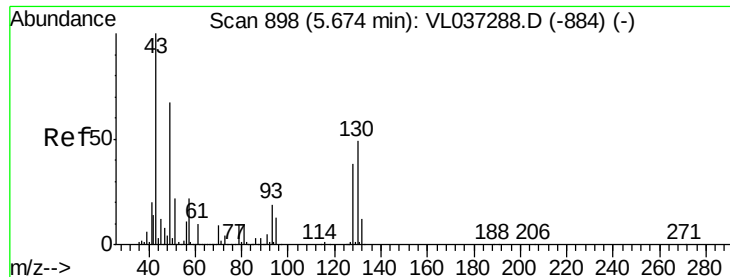
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL073021\
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 30 23:19:30 2021
QLast Update : Fri Jul 30 23:19:30 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. -0.01 min

Lab File: VL037301.D

Acq: 31 Jul 2021 3:19

Instrument :

MSVOA_L

ClientSampleId :

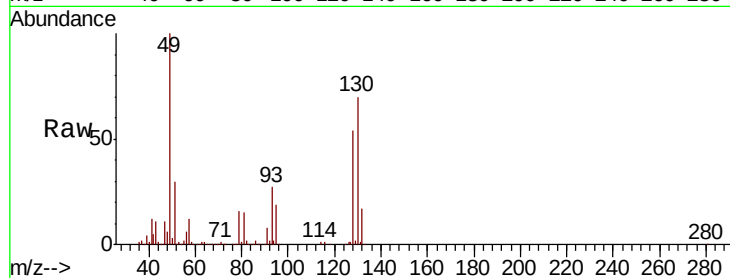
Tot Ion: 49 Resp: 1156535

Ion Ratio Lower Upper

49 100

128 59.2 30.6 92.0

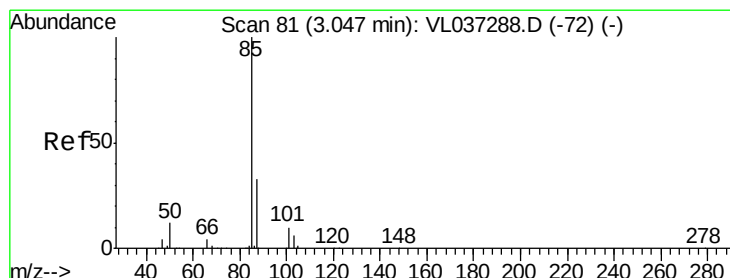
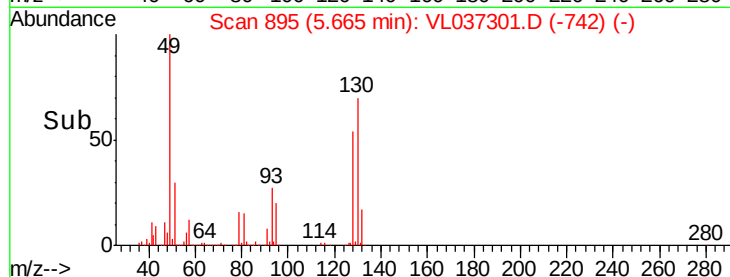
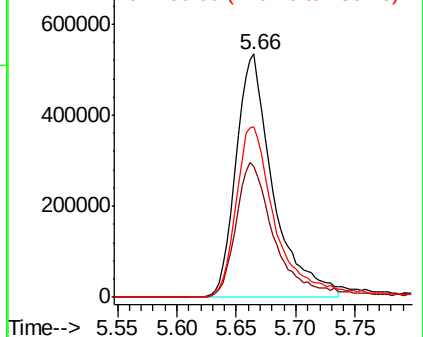
130 78.1 37.8 113.4



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: 0.294 ppbv

RT: 3.04 min Scan# 78

Delta R.T. -0.01 min

Lab File: VL037301.D

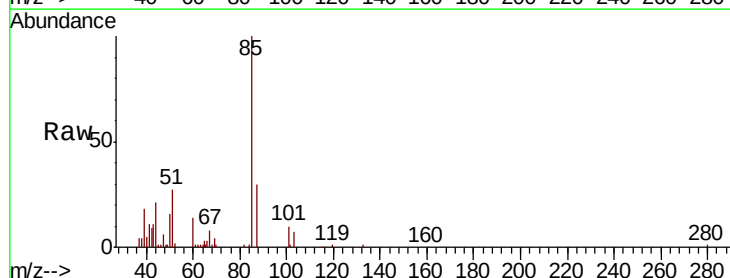
Acq: 31 Jul 2021 3:19

Tgt Ion: 85 Resp: 48933

Ion Ratio Lower Upper

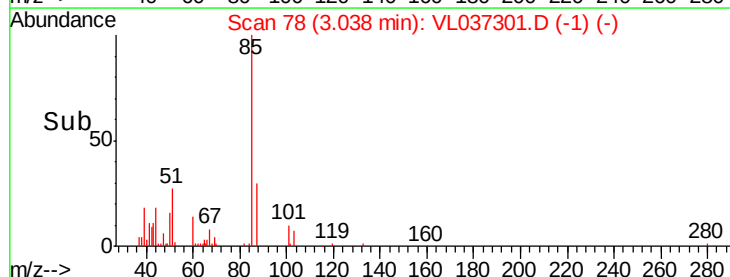
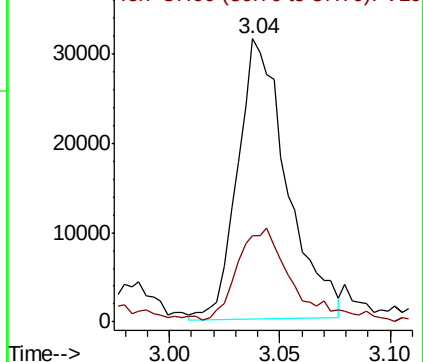
85 100

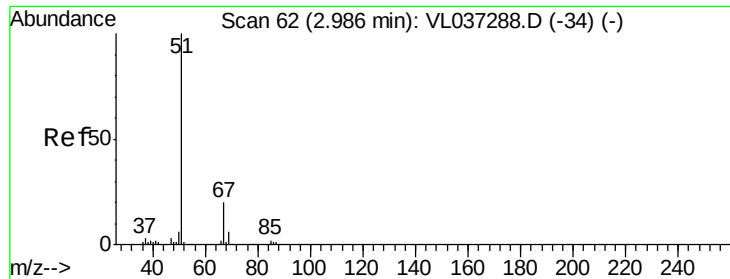
87 29.0 26.6 40.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 2.302 ppbv

RT: 2.98 min Scan# 59

Delta R.T. -0.01 min

Lab File: VL037301.D

Acq: 31 Jul 2021 3:19

Instrument :

MSVOA_L

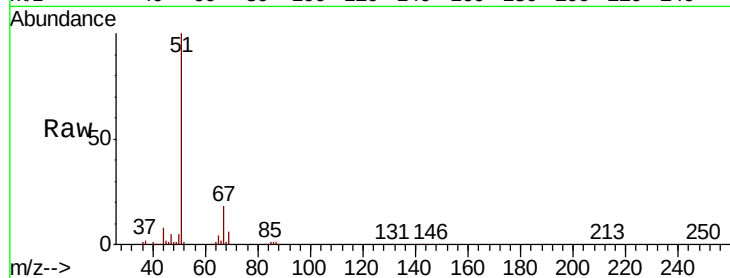
ClientSampleId :

Tot Ion: 51 Resp: 533590

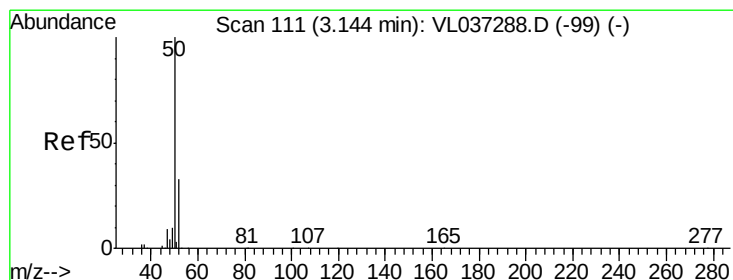
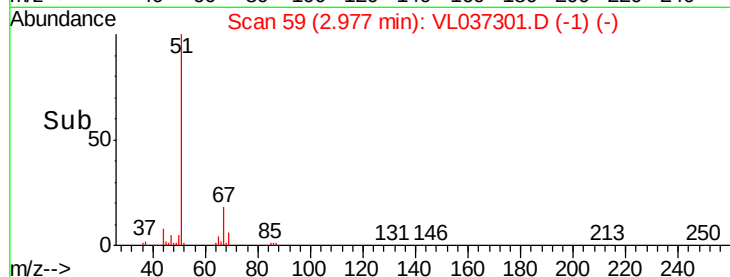
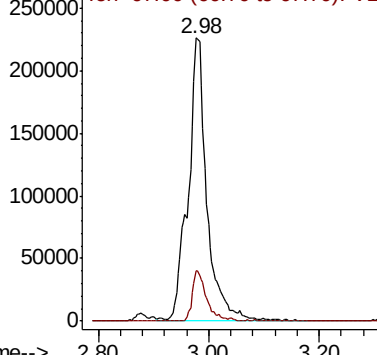
Ion Ratio Lower Upper

51 100

67 14.0 15.2 22.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0
Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.477 ppbv

RT: 3.13 min Scan# 108

Delta R.T. -0.01 min

Lab File: VL037301.D

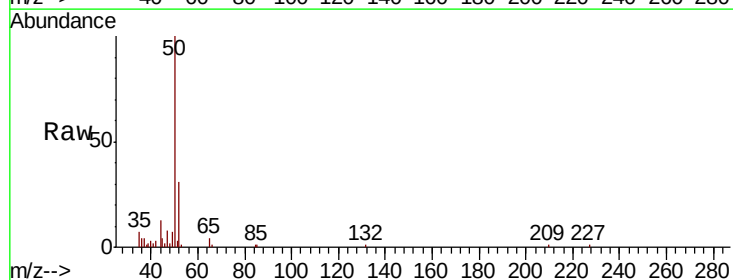
Acq: 31 Jul 2021 3:19

Tgt Ion: 50 Resp: 38565

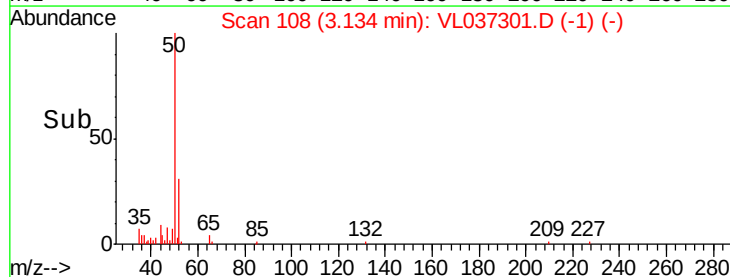
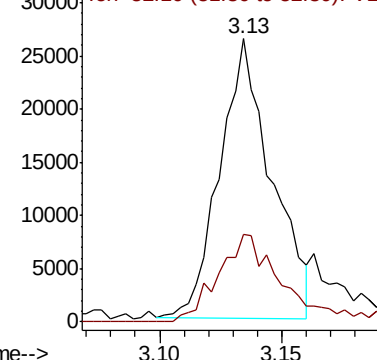
Ion Ratio Lower Upper

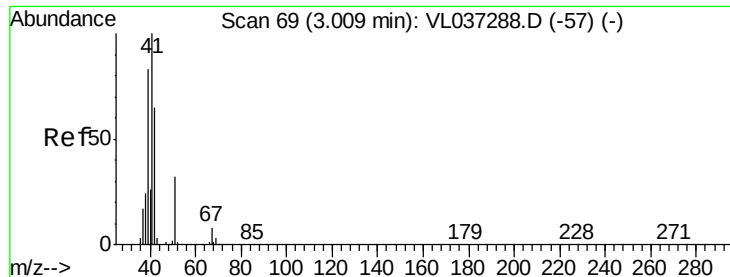
50 100

52 31.3 26.2 39.4



Abundance Ion 50.10 (49.80 to 50.80): VL0
Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.403 ppbv

RT: 3.02 min Scan# 71

Delta R.T. 0.01 min

Lab File: VL037301.D

Acq: 31 Jul 2021 3:19

Instrument :

MSVOA_L

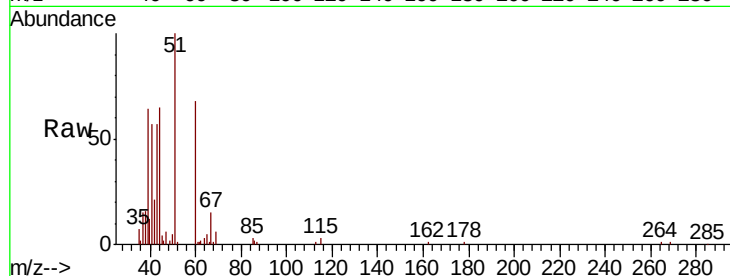
ClientSampleId :

Tot Ion: 41 Resp: 31456

Ion Ratio Lower Upper

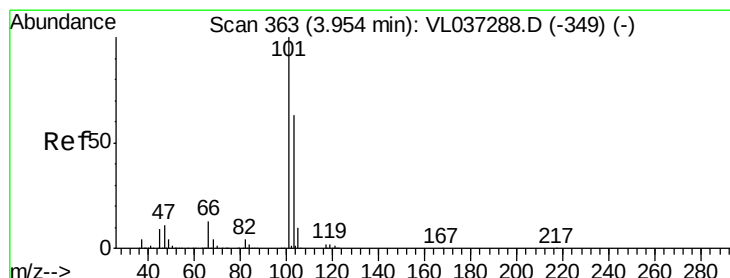
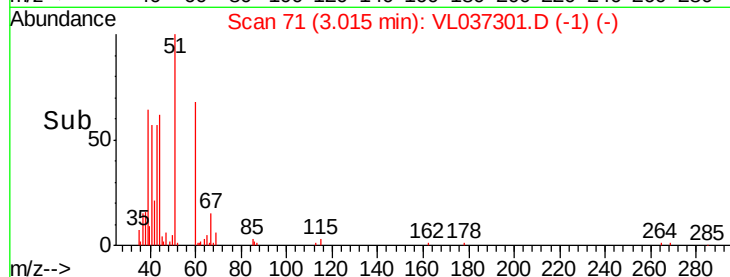
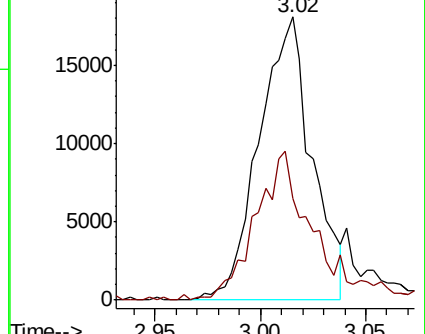
41 100

42 59.8 54.0 81.0



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#11

Trichlorofluoromethane

Concen: 0.238 ppbv

RT: 3.94 min Scan# 360

Delta R.T. -0.01 min

Lab File: VL037301.D

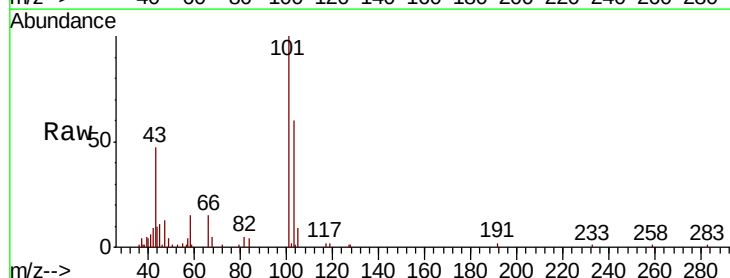
Acq: 31 Jul 2021 3:19

Tgt Ion: 101 Resp: 49244

Ion Ratio Lower Upper

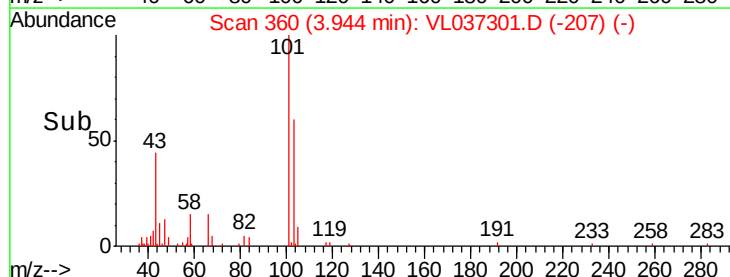
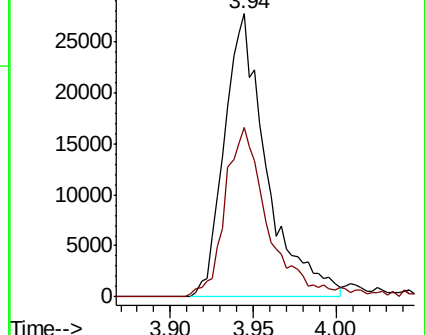
101 100

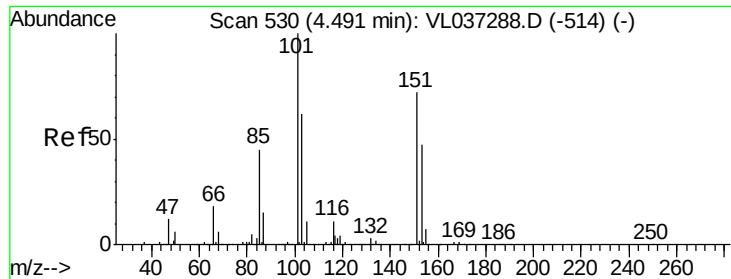
103 59.1 50.6 75.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.050 ppbv

RT: 4.48 min Scan# 528

Delta R.T. -0.01 min

Lab File: VL037301.D

Acq: 31 Jul 2021 3:19

Instrument :

MSVOA_L

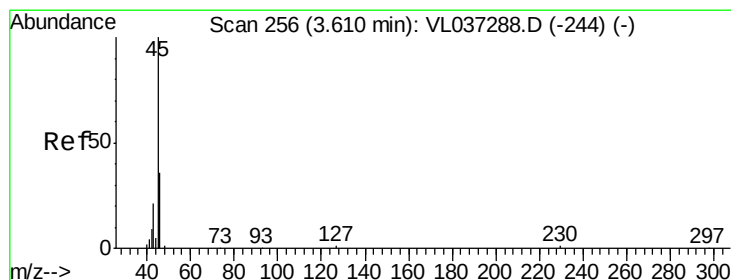
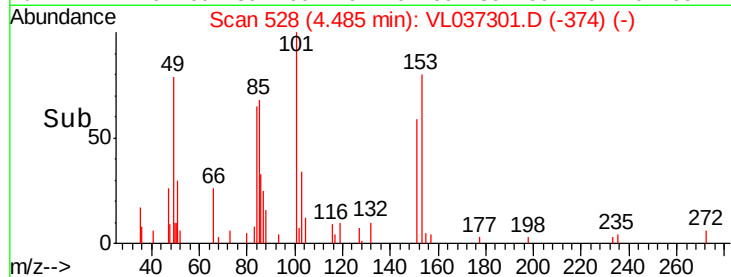
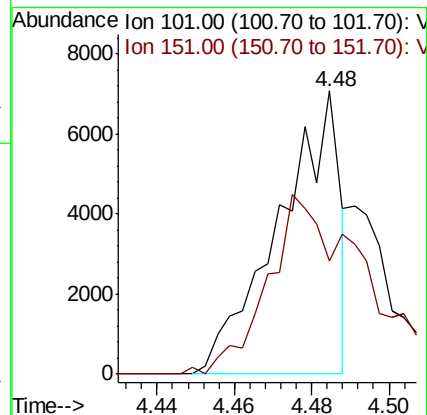
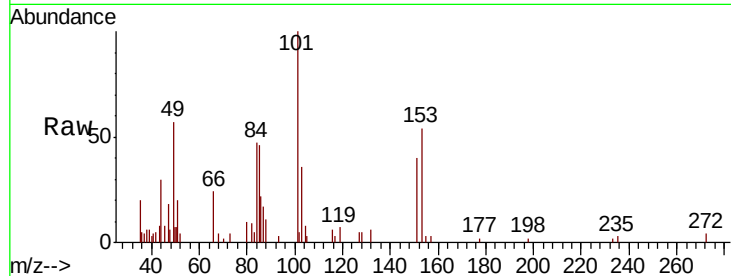
ClientSampleId :

Tot Ion:101 Resp: 7723

Ion Ratio Lower Upper

101 100

151 106.4 61.4 92.0#



#13

Ethanol

Concen: 13.484 ppbv

RT: 3.61 min Scan# 256

Delta R.T. 0.00 min

Lab File: VL037301.D

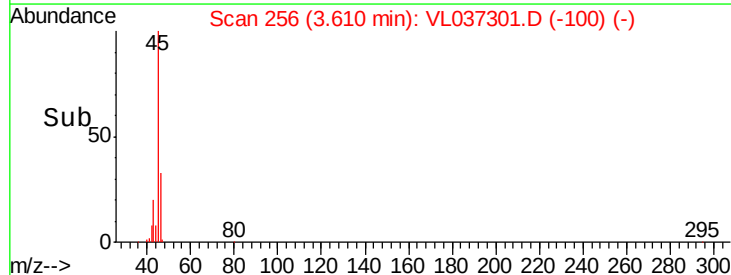
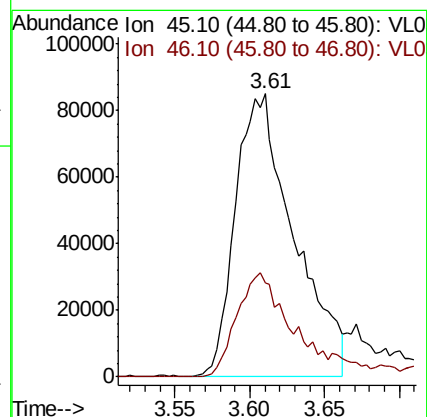
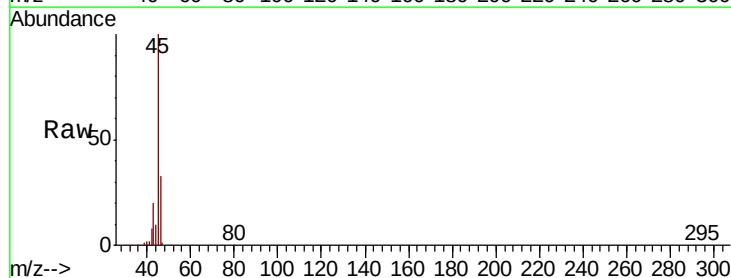
Acq: 31 Jul 2021 3:19

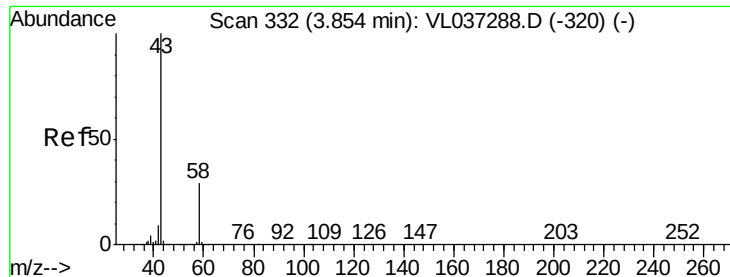
Tgt Ion: 45 Resp: 231035

Ion Ratio Lower Upper

45 100

46 39.9 16.2 64.8





#15

Acetone

Concen: 3.696 ppbv

RT: 3.84 min Scan# 329

Delta R.T. -0.01 min

Lab File: VL037301.D

Acq: 31 Jul 2021 3:19

Instrument :

MSVOA_L

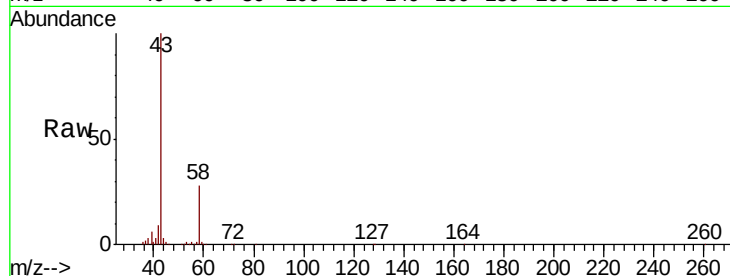
ClientSampleId :

Tot Ion: 43 Resp: 769839

Ion Ratio Lower Upper

43 100

58 28.3 24.2 36.4



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.84

400000

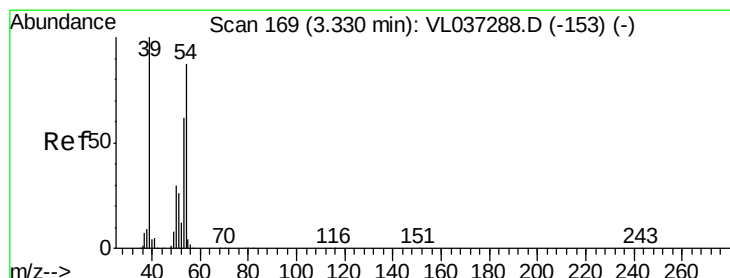
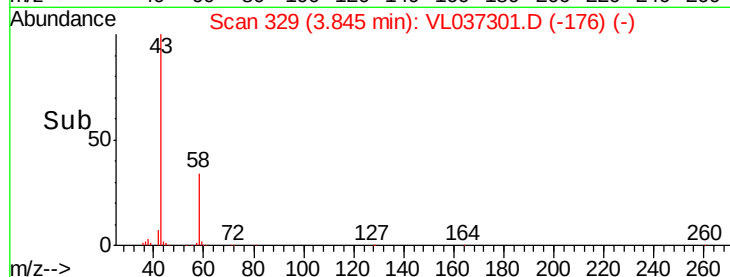
300000

200000

100000

0

Time-->



#16

1,3-Butadiene

Concen: 0.313 ppbv

RT: 3.35 min Scan# 175

Delta R.T. 0.02 min

Lab File: VL037301.D

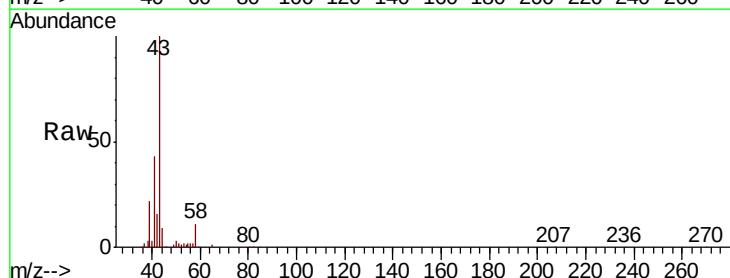
Acq: 31 Jul 2021 3:19

Tgt Ion: 39 Resp: 24497

Ion Ratio Lower Upper

39 100

54 9.0 63.9 95.9#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.35

20000

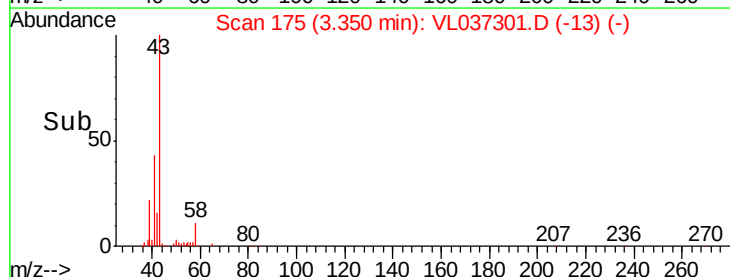
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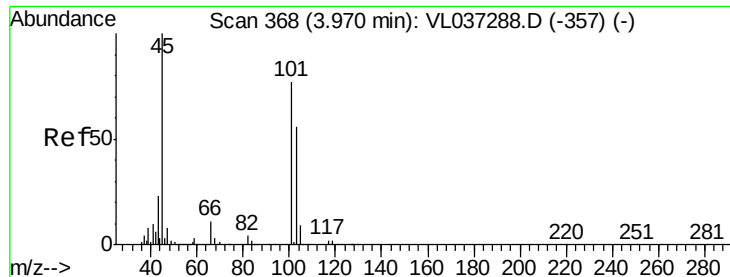
10000

5000

0

Time-->





#19

Isopropyl Alcohol

Concen: 2.180 ppbv

RT: 3.98 min Scan# 370

Delta R.T. 0.01 min

Lab File: VL037301.D

Acq: 31 Jul 2021 3:19

Instrument :

MSVOA_L

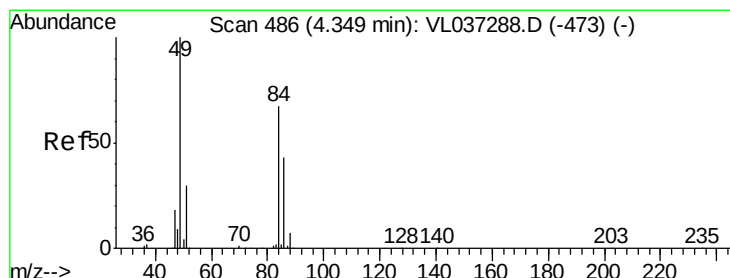
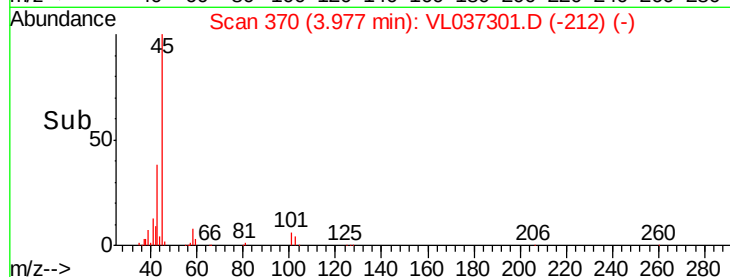
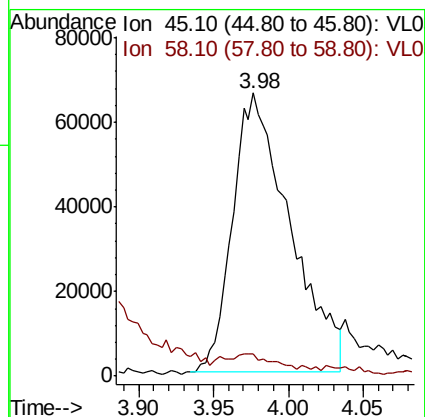
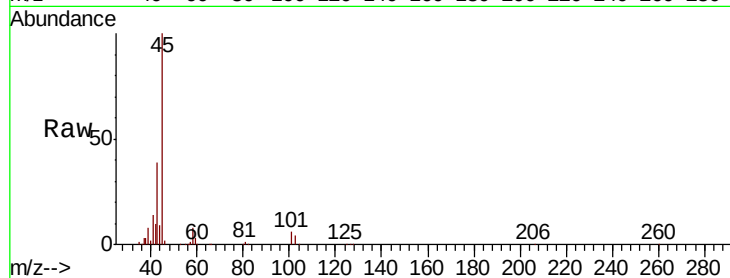
ClientSampleId :

Tot Ion: 45 Resp: 175668

Ion Ratio Lower Upper

45 100

58 4.8 2.2 3.2#



#20

Methylene Chloride

Concen: 8.979 ppbv

RT: 4.34 min Scan# 482

Delta R.T. -0.01 min

Lab File: VL037301.D

Acq: 31 Jul 2021 3:19

Tgt Ion: 84 Resp: 723831

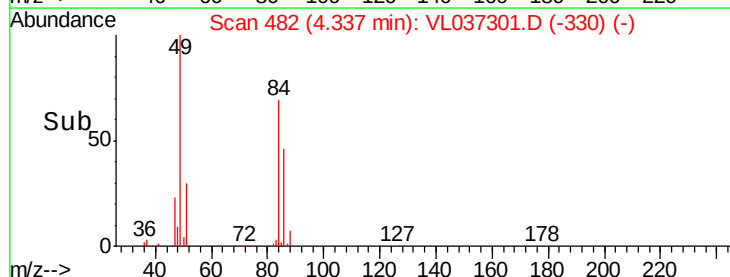
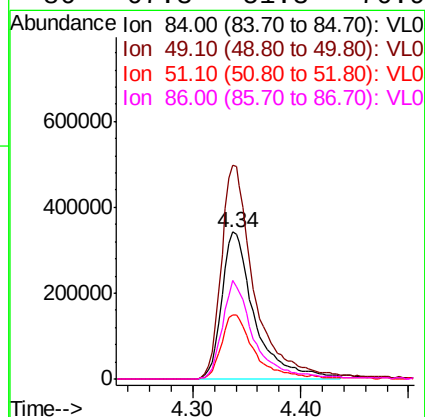
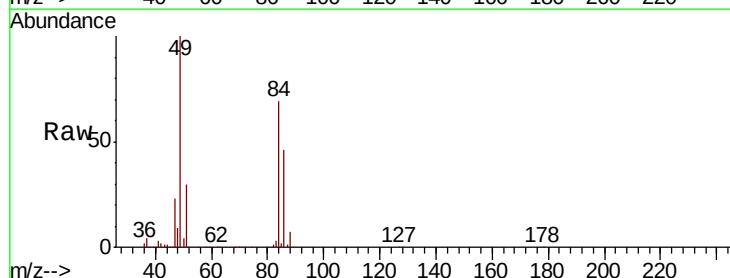
Ion Ratio Lower Upper

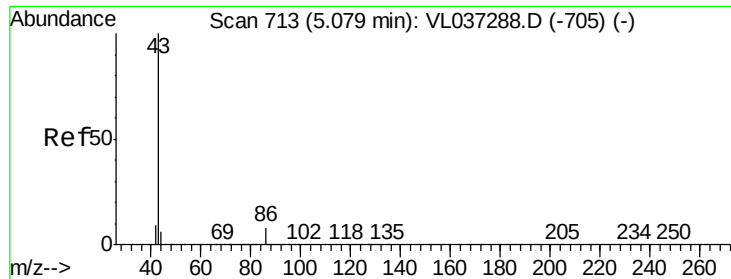
84 100

49 145.6 120.2 180.4

51 43.7 36.5 54.7

86 67.3 51.3 76.9

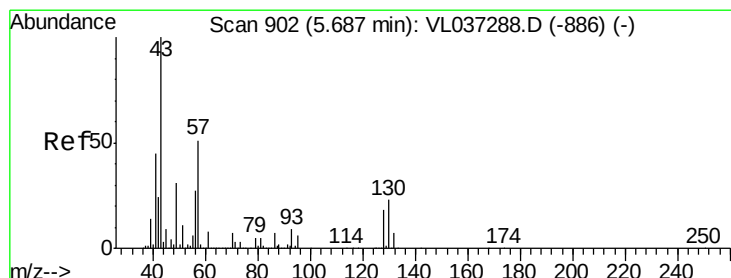
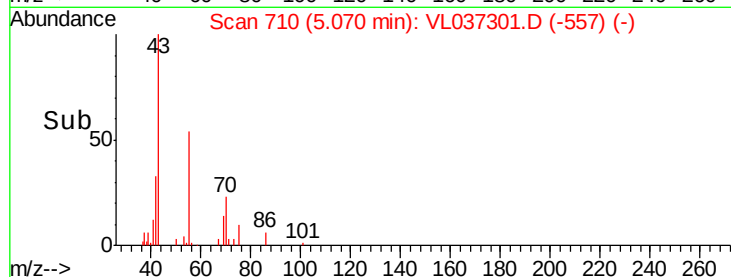
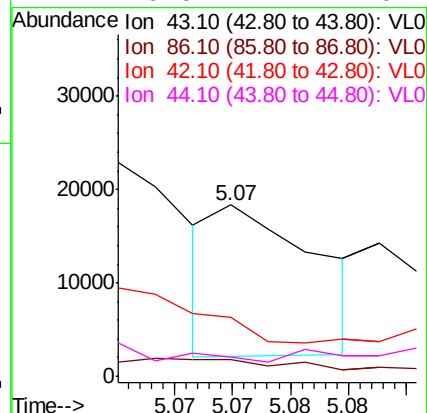
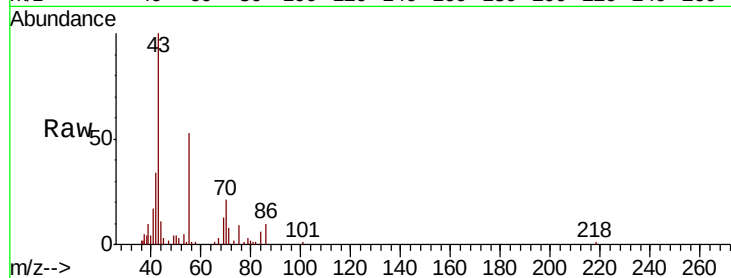




#23
 Vinyl Acetate
 Concen: 0.056 ppbv
 RT: 5.07 min Scan# 710
 Delta R.T. -0.01 min
 Lab File: VL037301.D
 Acq: 31 Jul 2021 3:19

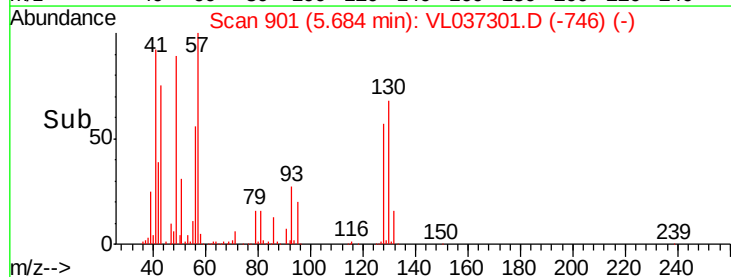
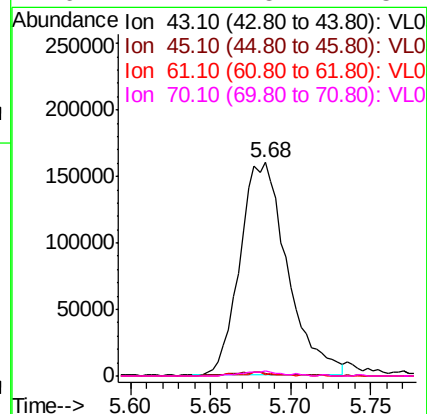
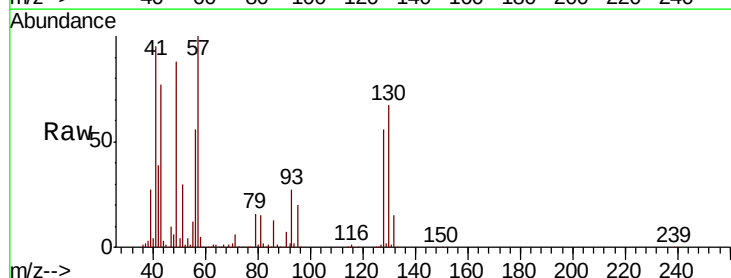
Instrument :
 MSVOA_L
 ClientSampleId :

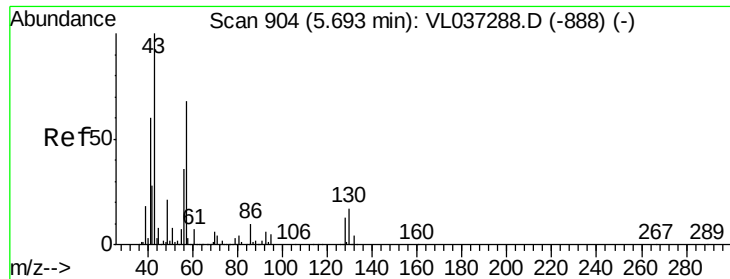
Tot Ion:	43	Resp:	9873
Ion	Ratio	Lower	Upper
43	100		
86	20.4	5.7	8.5#
42	39.5	8.1	12.1#
44	0.0	4.1	6.1#



#25
 Ethyl Acetate
 Concen: 1.070 ppbv
 RT: 5.68 min Scan# 901
 Delta R.T. -0.00 min
 Lab File: VL037301.D
 Acq: 31 Jul 2021 3:19

Tgt Ion:	43	Resp:	323442
Ion	Ratio	Lower	Upper
43	100		
45	2.4	7.4	11.2#
61	1.4	7.8	11.6#
70	2.4	5.4	8.2#

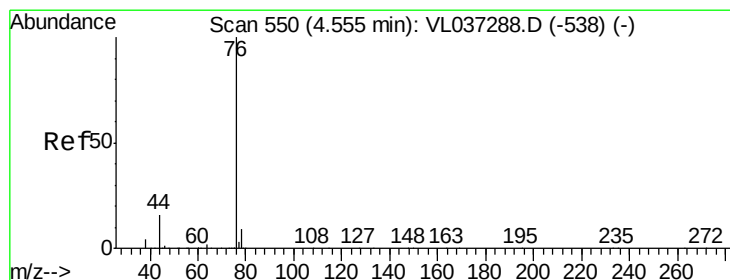
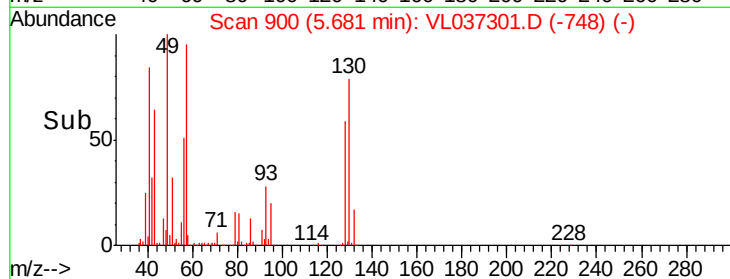
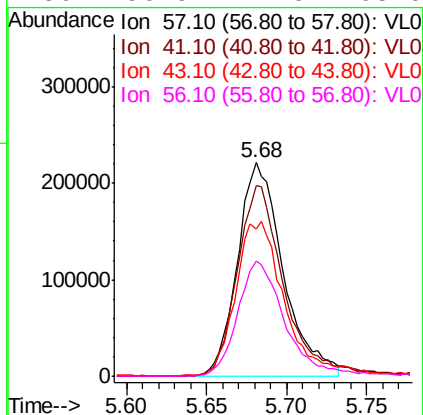
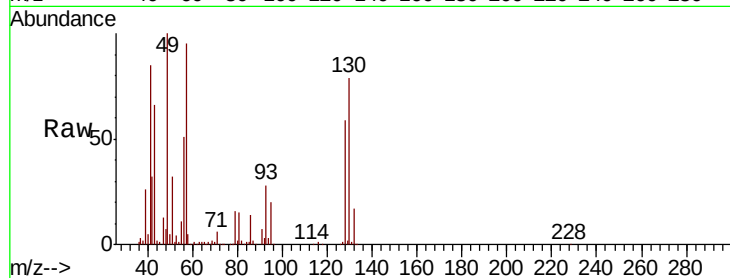




#26
Hexane
Concen: 2.668 ppbv
RT: 5.68 min Scan# 900
Delta R.T. -0.01 min
Lab File: VL037301.D
Acq: 31 Jul 2021 3:19

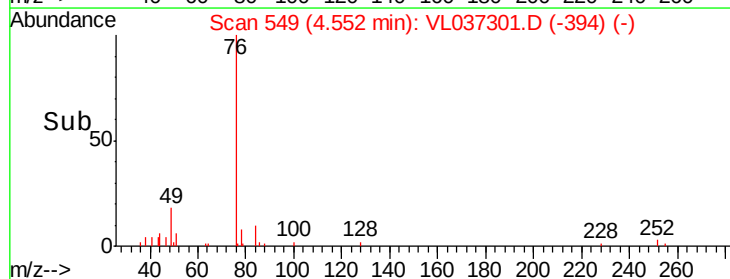
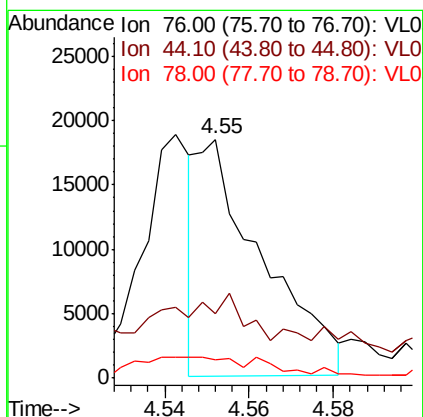
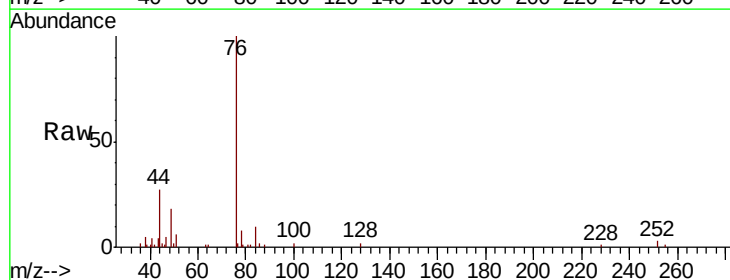
Instrument :
MSVOA_L
ClientSampleId :

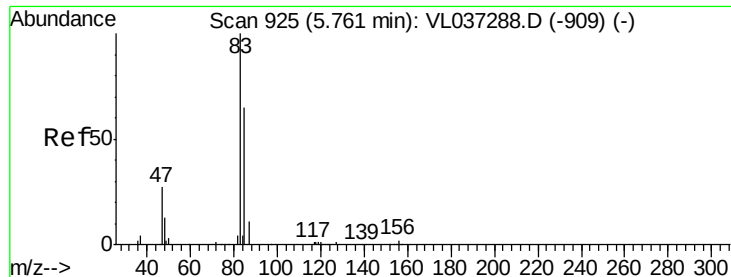
Tot Ion	57	Resp	430998
Ion	Ratio	Lower	Upper
57	100		
41	93.3	71.0	106.6
43	80.2	155.0	232.4#
56	56.9	42.0	63.0



#27
Carbon Disulfide
Concen: 0.146 ppbv
RT: 4.55 min Scan# 549
Delta R.T. -0.00 min
Lab File: VL037301.D
Acq: 31 Jul 2021 3:19

Tgt Ion	76	Resp	19465
Ion	Ratio	Lower	Upper
76	100		
44	53.4	14.1	21.1#
78	0.0	8.0	12.0#





#29

Chloroform

Concen: 0.068 ppbv

RT: 5.74 min Scan# 919

Delta R.T. -0.02 min

Lab File: VL037301.D

Acq: 31 Jul 2021 3:19

Instrument :

MSVOA_L

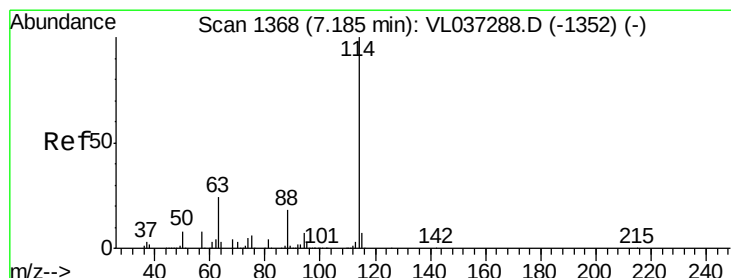
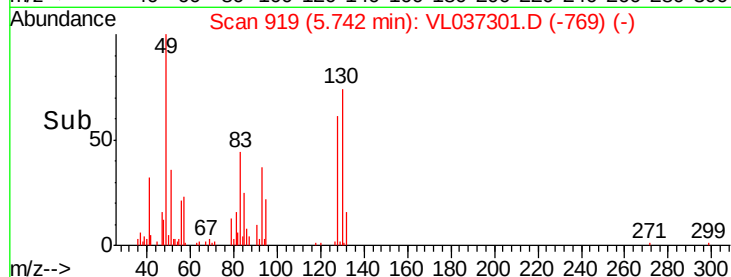
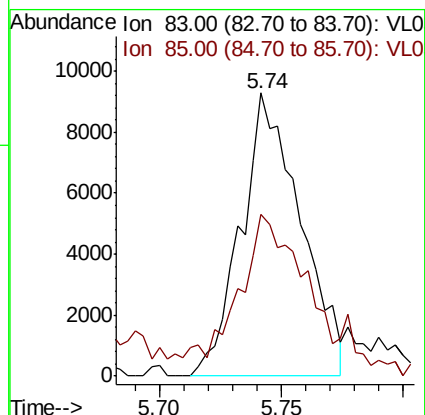
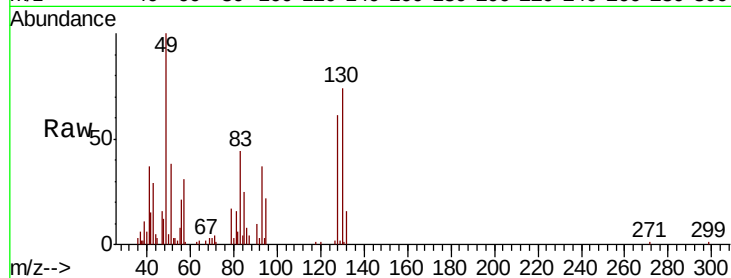
ClientSampled :

Tot Ion: 83 Resp: 15709

Ion Ratio Lower Upper

83 100

85 46.9 51.9 77.9#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 min Scan# 1364

Delta R.T. -0.01 min

Lab File: VL037301.D

Acq: 31 Jul 2021 3:19

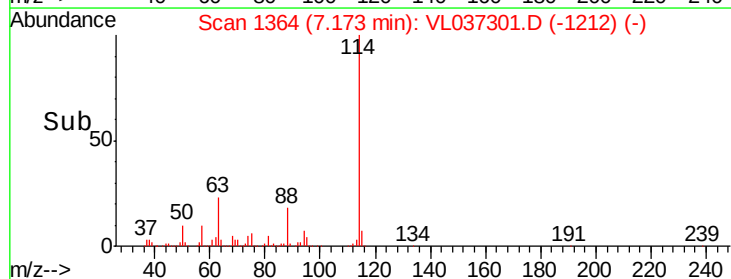
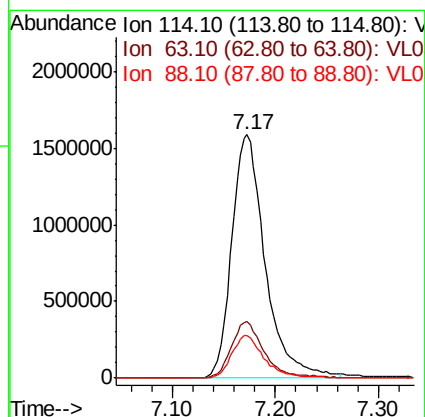
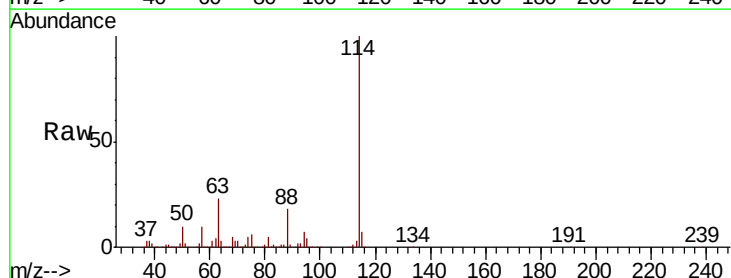
Tgt Ion: 114 Resp: 3585389

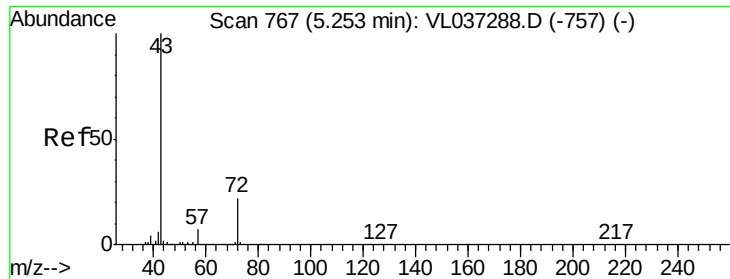
Ion Ratio Lower Upper

114 100

63 23.1 19.0 28.4

88 17.3 14.0 21.0

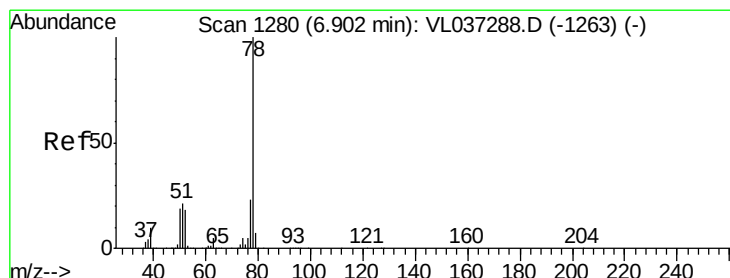
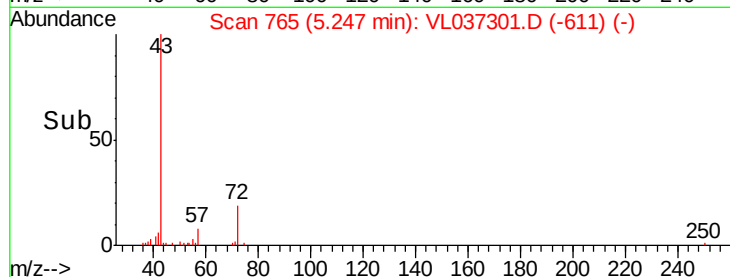
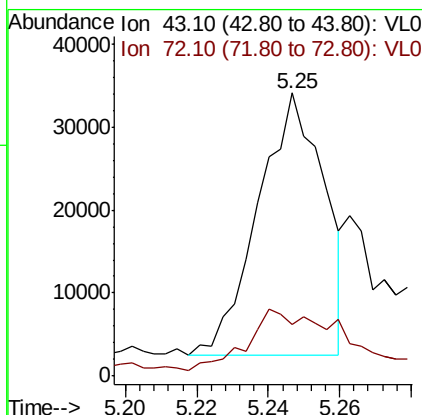
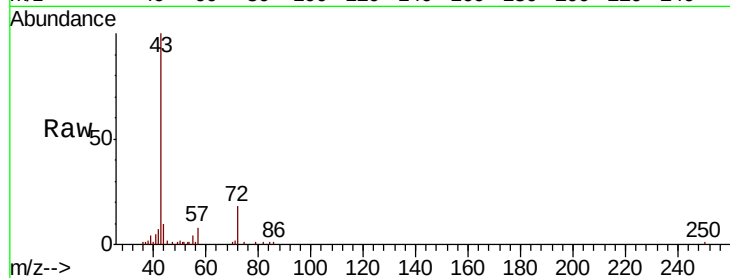




#34
2-Butanone
Concen: 0.264 ppbv
RT: 5.25 min Scan# 765
Delta R.T. -0.01 min
Lab File: VL037301.D
Acq: 31 Jul 2021 3:19

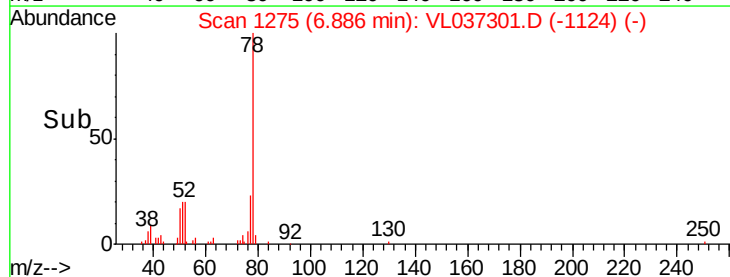
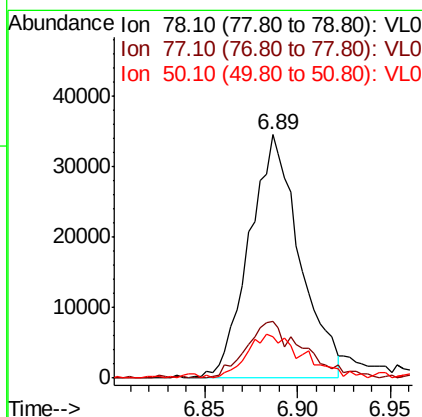
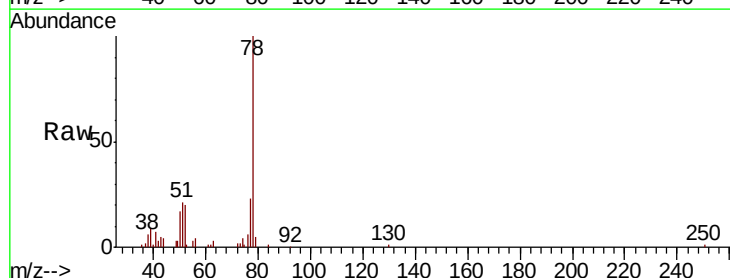
Instrument :
MSVOA_L
ClientSampleId :

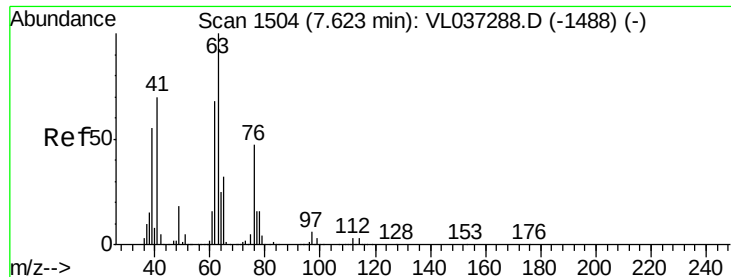
Tot Ion: 43 Resp: 40538
Ion Ratio Lower Upper
43 100
72 44.8 18.5 27.7#



#36
Benzene
Concen: 0.215 ppbv
RT: 6.89 min Scan# 1275
Delta R.T. -0.02 min
Lab File: VL037301.D
Acq: 31 Jul 2021 3:19

Tgt Ion: 78 Resp: 65367
Ion Ratio Lower Upper
78 100
77 23.5 18.3 27.5
50 15.4 15.5 23.3#

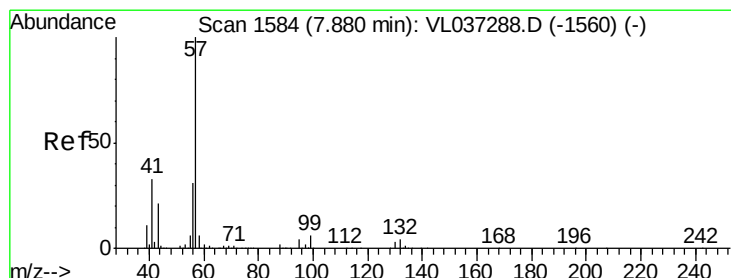
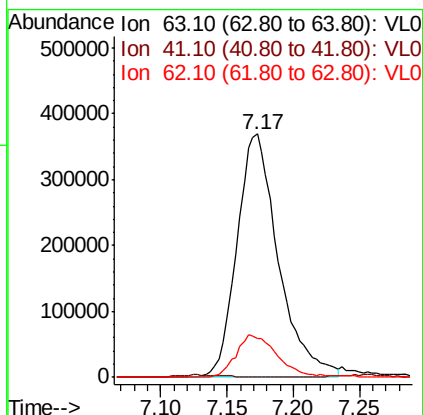
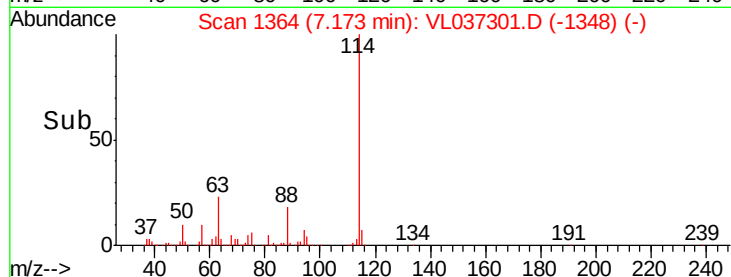
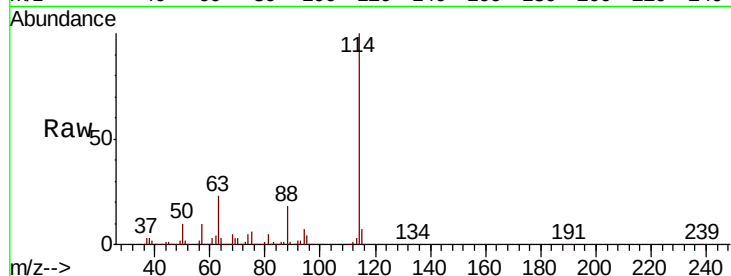




#39
 1,2-Dichloropropane
 Concen: 7.037 ppbv
 RT: 7.17 min Scan# 1364
 Delta R.T. -0.45 min
 Lab File: VL037301.D
 Acq: 31 Jul 2021 3:19

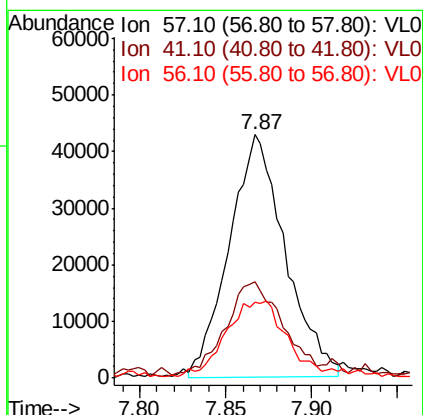
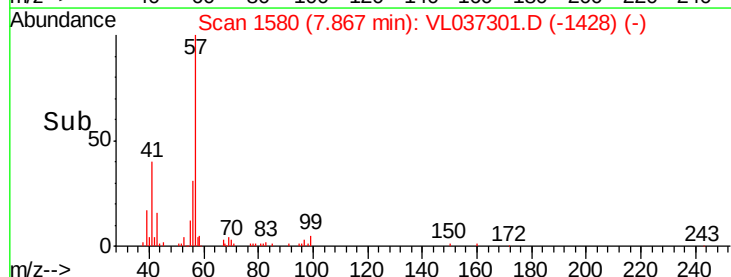
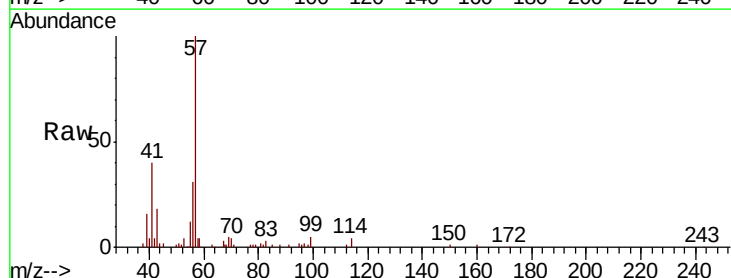
Instrument :
 MSVOA_L
 ClientSampleId :

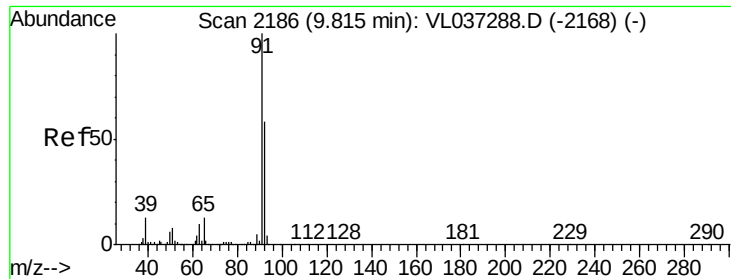
Tot Ion	Ratio	Lower	Upper
63	100		
41	0.0	56.4	84.6#
62	16.1	54.6	82.0#



#44
 2,2,4-Trimethylpentane
 Concen: 0.196 ppbv
 RT: 7.87 min Scan# 1580
 Delta R.T. -0.01 min
 Lab File: VL037301.D
 Acq: 31 Jul 2021 3:19

Tgt Ion	Ratio	Lower	Upper
57	100		
41	41.3	26.6	40.0#
56	39.3	25.3	37.9#





#53

Toluene

Concen: 0.882 ppbv

RT: 9.80 min Scan# 2182

Delta R.T. -0.01 min

Lab File: VL037301.D

Acq: 31 Jul 2021 3:19

Instrument :

MSVOA_L

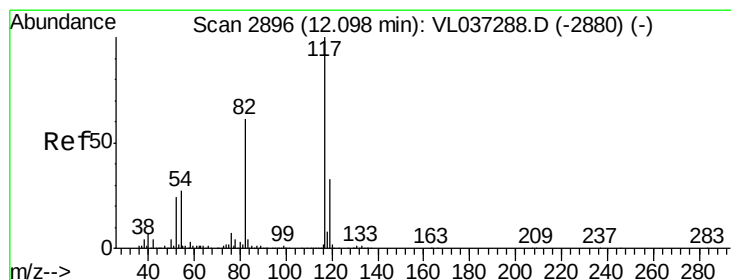
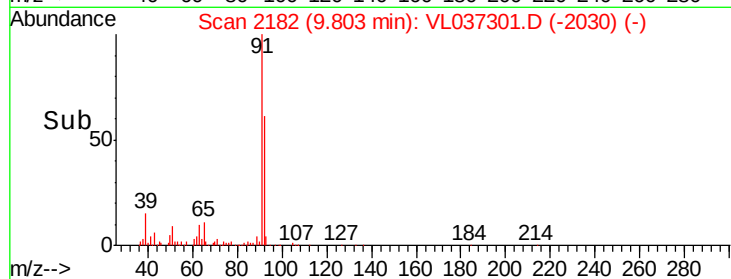
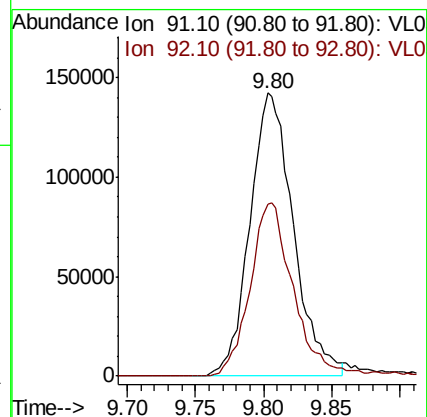
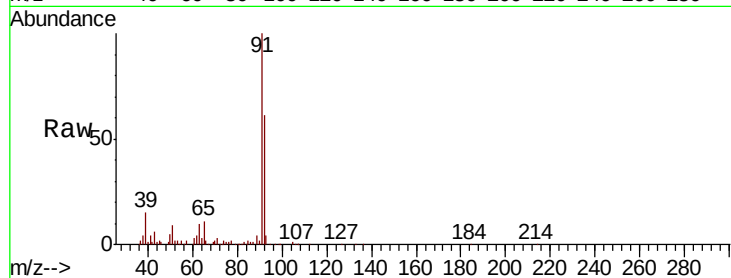
ClientSampleId :

Tot Ion: 91 Resp: 314759

Ion Ratio Lower Upper

91 100

92 62.5 48.2 72.2



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2892

Delta R.T. -0.01 min

Lab File: VL037301.D

Acq: 31 Jul 2021 3:19

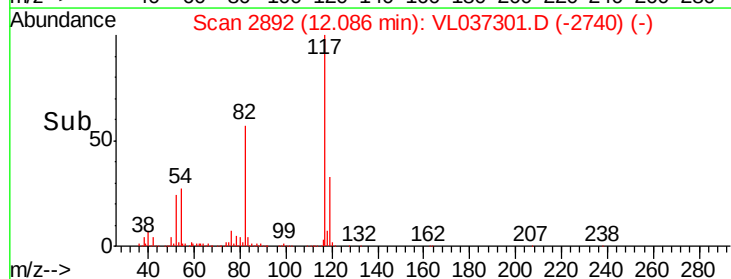
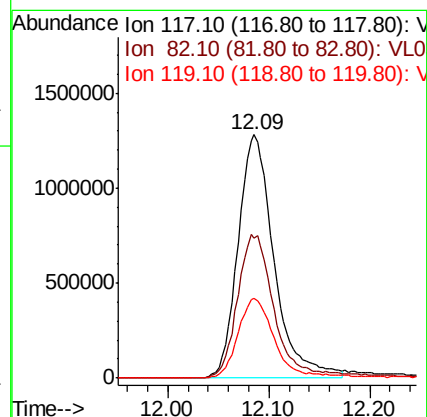
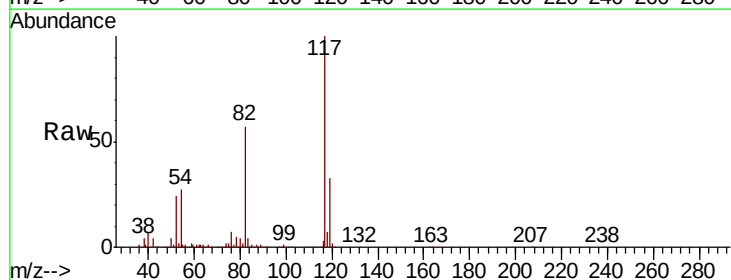
Tgt Ion: 117 Resp: 3181136

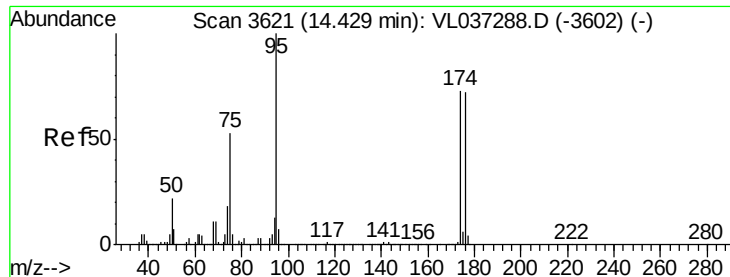
Ion Ratio Lower Upper

117 100

82 62.6 47.2 70.8

119 34.8 45.8 68.8#





#68

1-Bromo-4-Fluorobenzene

Concen: 9.764 ppbv

RT: 14.42 min Scan# 3617

Delta R.T. -0.01 min

Lab File: VL037301.D

Acq: 31 Jul 2021 3:19

Instrument :

MSVOA_L

ClientSampleId :

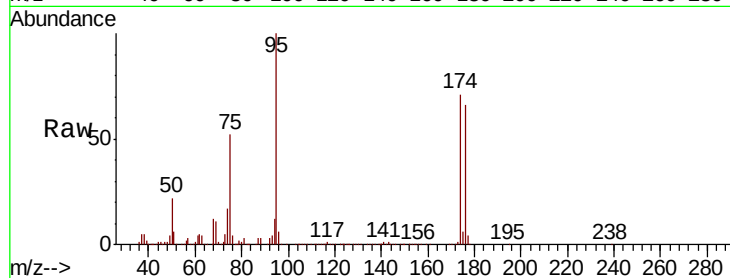
Tot Ion: 95 Resp: 2259801

Ion Ratio Lower Upper

95 100

174 79.2 59.8 89.6

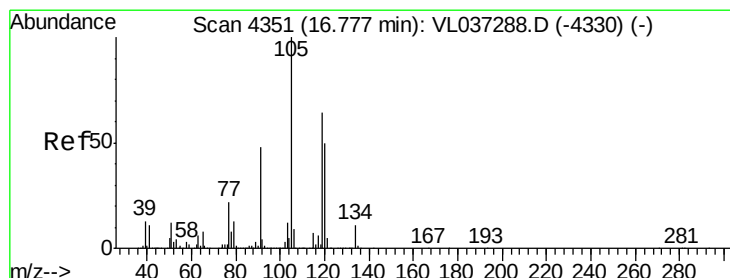
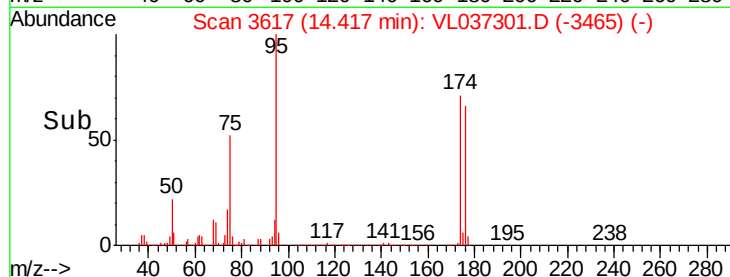
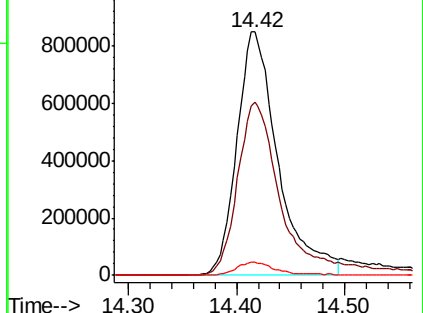
175 5.8 4.5 6.7



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: 0.036 ppbv

RT: 16.76 min Scan# 4346

Delta R.T. -0.02 min

Lab File: VL037301.D

Acq: 31 Jul 2021 3:19

Tgt Ion: 105 Resp: 15503

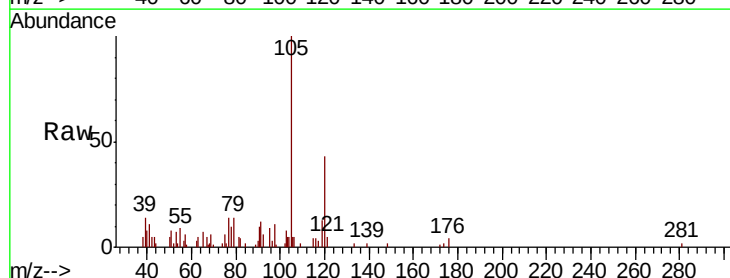
Ion Ratio Lower Upper

105 100

120 41.9 40.2 60.4

91 23.3 39.0 58.6#

77 13.3 17.4 26.0#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

