

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032921\
 Data File : VL036539.D
 Acq On : 29 Mar 2021 14:40
 Operator : SY/AP
 Sample : M1760-02
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 30 06:40:15 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	5.66	49	1529874	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3441916	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3015473	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	2266399	9.43	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.30%

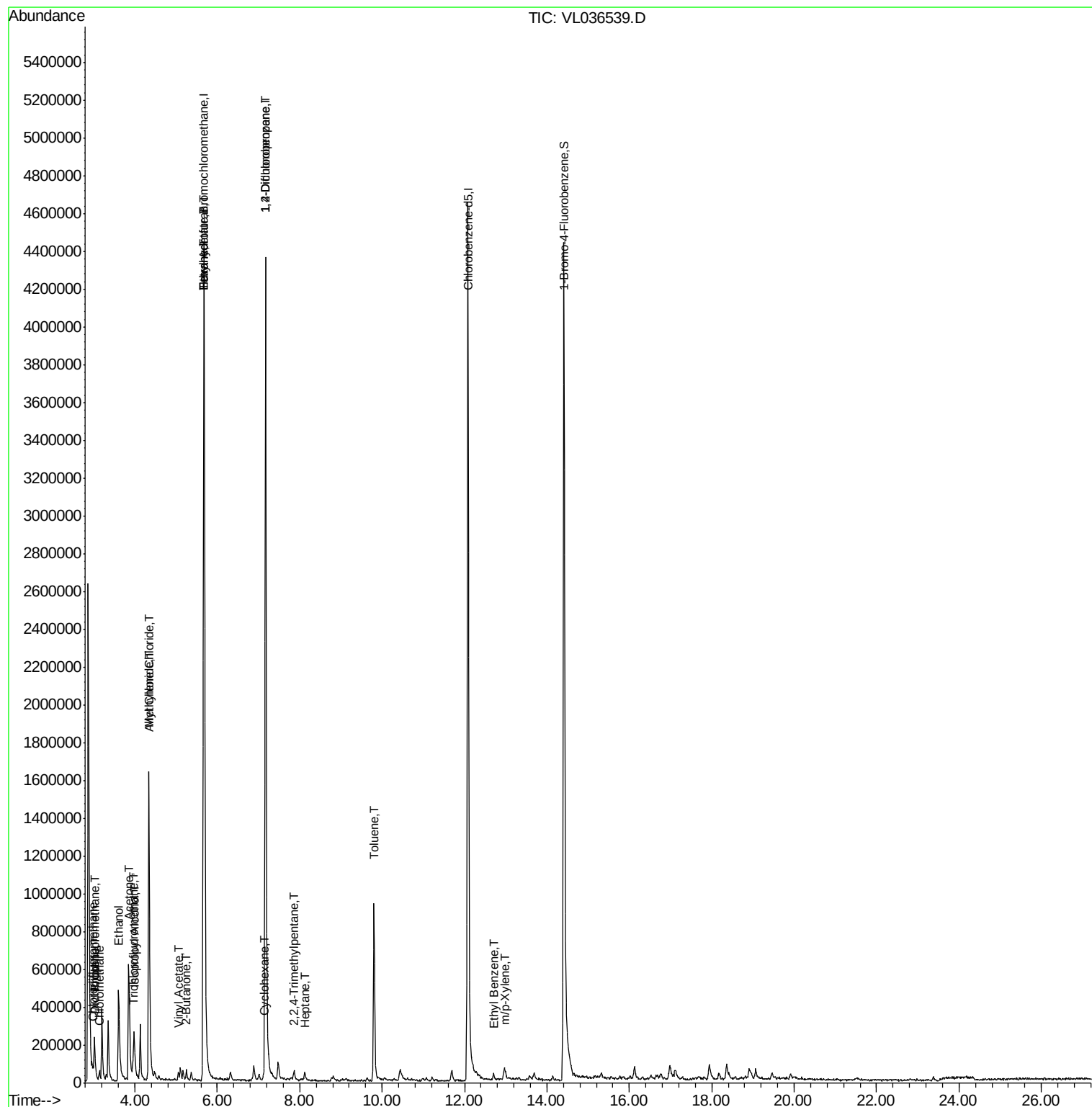
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.04	85	39168	0.157 ppbv	100
3) Chlorodifluoromethane	2.98	51	103069	0.361 ppbv #	84
4) Chloromethane	3.14	50	49936	0.495 ppbv #	82
9) Propene	3.02	41	56985	0.625 ppbv	88
10) Heptane	8.12	43	6372	0.027 ppbv #	1
11) Trichlorofluoromethane	3.95	101	52761	0.207 ppbv	85
13) Ethanol	3.61	45	605435	55.794 ppbv	96
15) Acetone	3.85	43	837089	5.559 ppbv	99
19) Isopropyl Alcohol	3.98	45	299969	3.621 ppbv #	92
20) Methylene Chloride	4.34	84	686353	9.736 ppbv	96
21) Allyl Chloride	4.35	41	7742	0.064 ppbv #	46
23) Vinyl Acetate	5.06	43	10136	0.039 ppbv #	91
25) Ethyl Acetate	5.68	43	1087083	3.037 ppbv #	78
26) Hexane	5.68	57	1455868	8.764 ppbv #	47
30) Cyclohexane	7.13	84	3075	0.023 ppbv #	1
34) 2-Butanone	5.25	43	39979	0.238 ppbv #	63
39) 1,2-Dichloropropane	7.17	63	936028	7.269 ppbv #	23
41) Tetrahydrofuran	5.68	42	619822	8.001 ppbv #	53
44) 2,2,4-Trimethylpentane	7.87	57	16339	0.029 ppbv #	1
53) Toluene	9.80	91	728641	2.155 ppbv	99
58) Ethyl Benzene	12.71	91	10500	0.024 ppbv	94
59) m/p-Xylene	12.99	91	15547	0.041 ppbv #	32

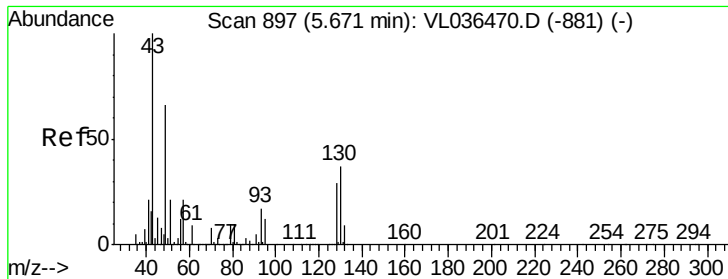
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL032921\
Data File : VL036539.D
Acq On : 29 Mar 2021 14:40
Operator : SY/AP
Sample : M1760-02
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :

Quant Time: Mar 30 06:40:15 2021
Quant Method : Z:\V0ASRV\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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. -0.01 min

Lab File: VL036539.D

Acq: 29 Mar 2021 14:40

Instrument :

MSVOA_L

ClientSampleId :

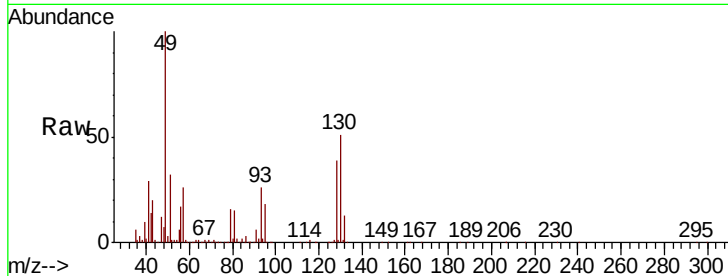
Tot Ion: 49 Resp: 1529874

Ion Ratio Lower Upper

49 100

128 42.7 23.5 70.6

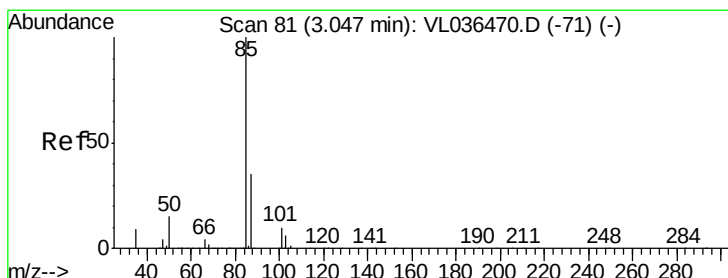
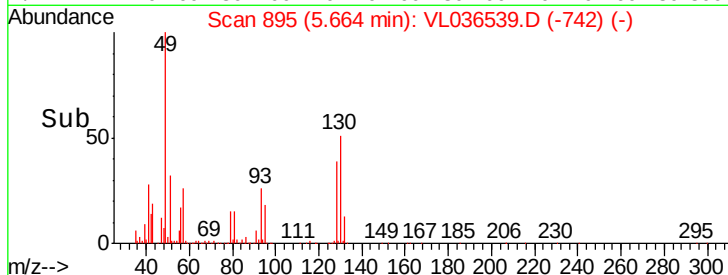
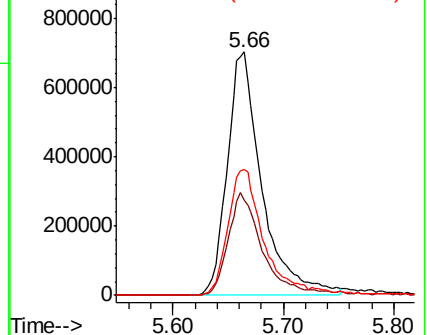
130 55.6 29.1 87.4



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: 0.157 ppbv

RT: 3.04 min Scan# 80

Delta R.T. -0.00 min

Lab File: VL036539.D

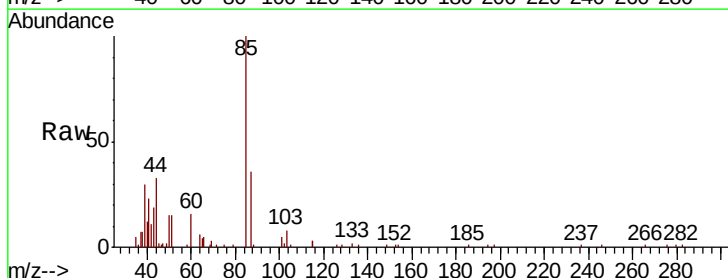
Acq: 29 Mar 2021 14:40

Tgt Ion: 85 Resp: 39168

Ion Ratio Lower Upper

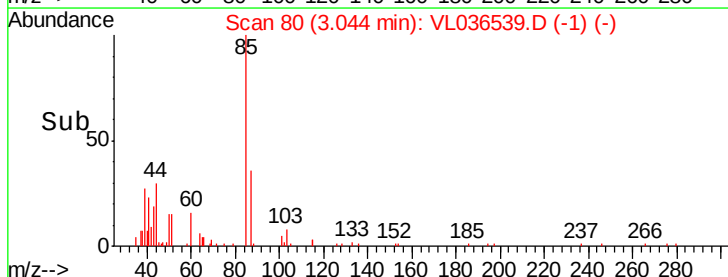
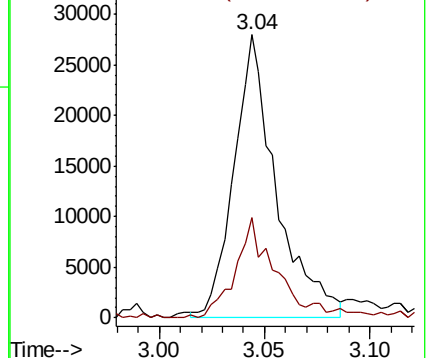
85 100

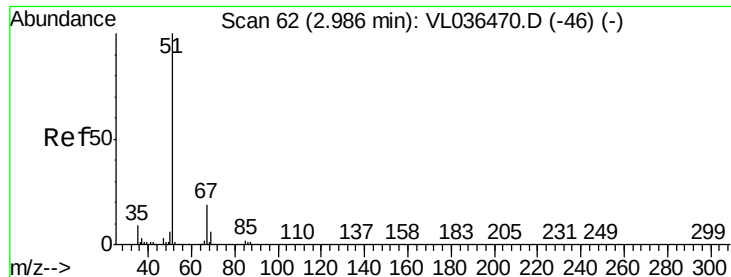
87 35.0 27.8 41.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.361 ppbv

RT: 2.98 min Scan# 61

Delta R.T. -0.00 min

Lab File: VL036539.D

Acq: 29 Mar 2021 14:40

Instrument :

MSVOA_L

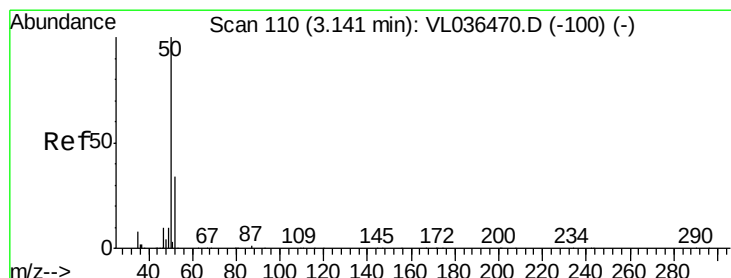
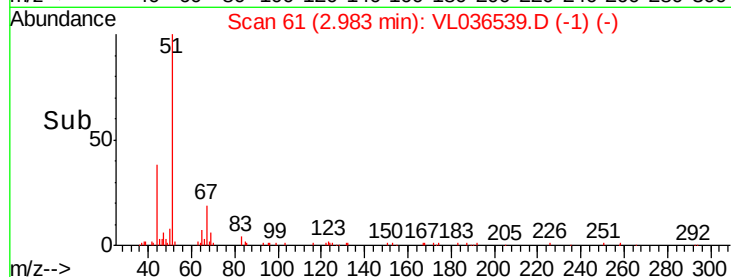
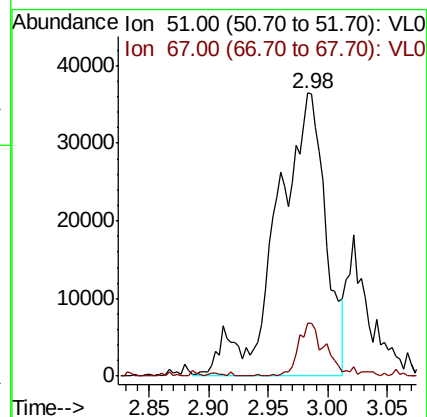
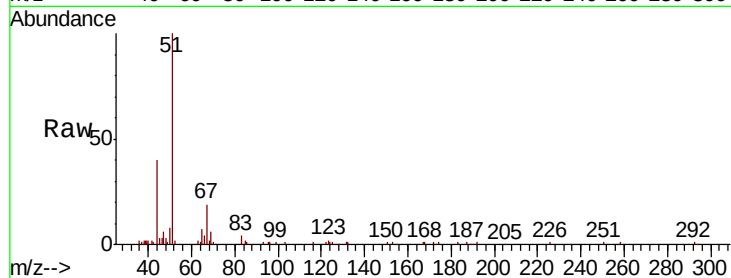
ClientSampleId :

Tot Ion: 51 Resp: 103069

Ion Ratio Lower Upper

51 100

67 11.5 14.7 22.1#



#4

Chloromethane

Concen: 0.495 ppbv

RT: 3.14 min Scan# 109

Delta R.T. -0.00 min

Lab File: VL036539.D

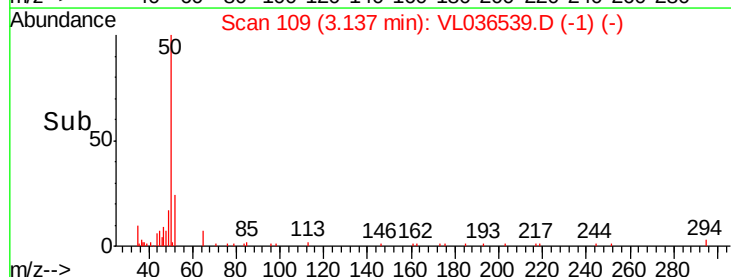
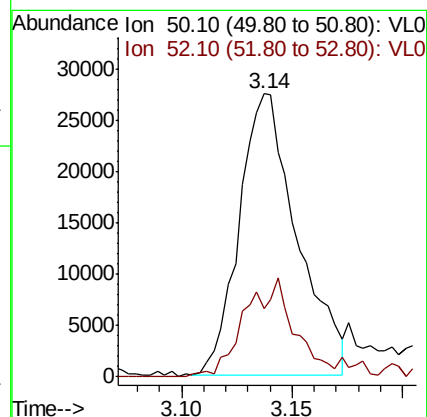
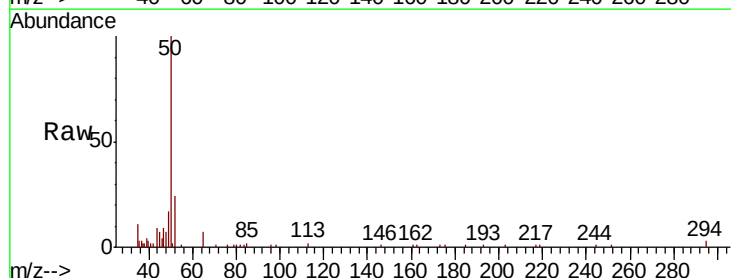
Acq: 29 Mar 2021 14:40

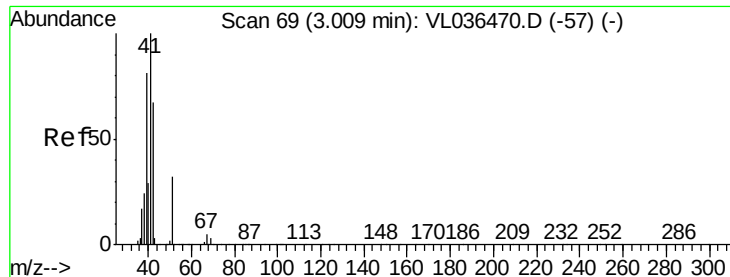
Tgt Ion: 50 Resp: 49936

Ion Ratio Lower Upper

50 100

52 23.4 27.0 40.6#





#9

Propene

Concen: 0.625 ppbv

RT: 3.02 min Scan# 71

Delta R.T. 0.01 min

Lab File: VL036539.D

Acq: 29 Mar 2021 14:40

Instrument :

MSVOA_L

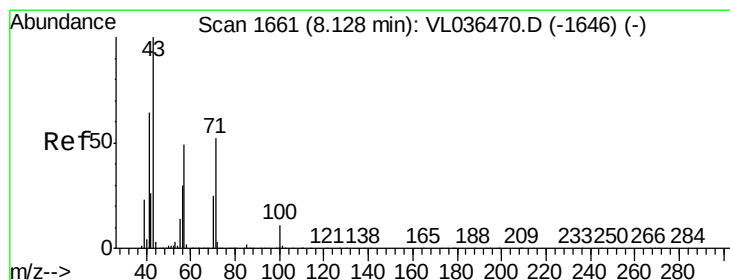
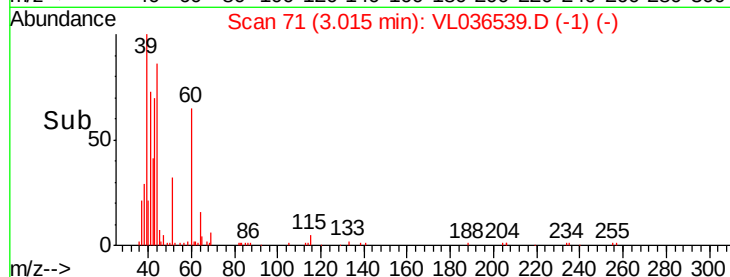
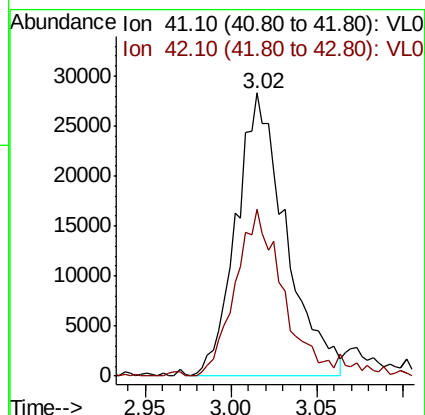
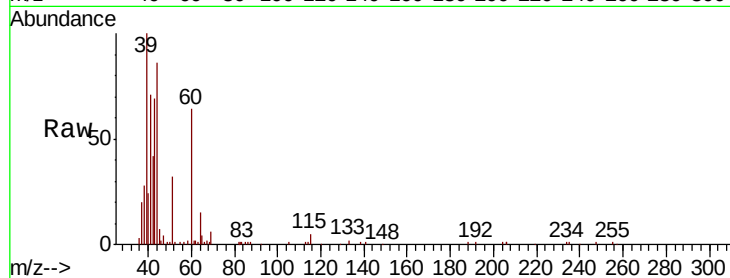
ClientSampleId :

Tot Ion: 41 Resp: 56985

Ion Ratio Lower Upper

41 100

42 61.1 57.0 85.4



#10

Heptane

Concen: 0.027 ppbv

RT: 8.12 min Scan# 1658

Delta R.T. -0.01 min

Lab File: VL036539.D

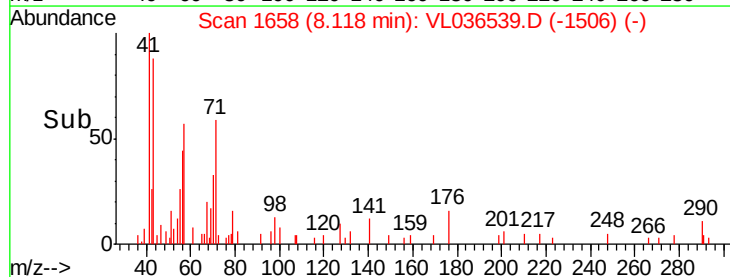
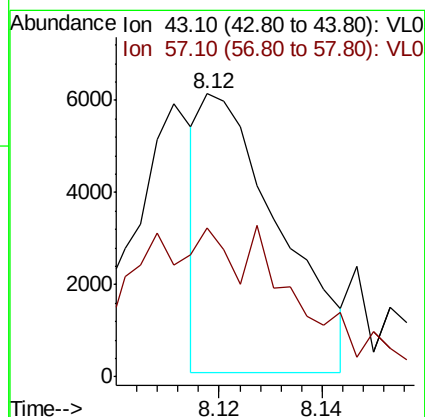
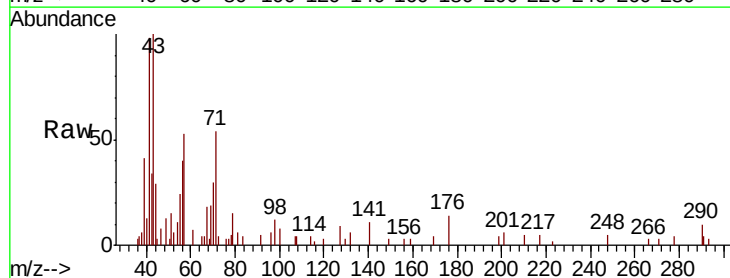
Acq: 29 Mar 2021 14:40

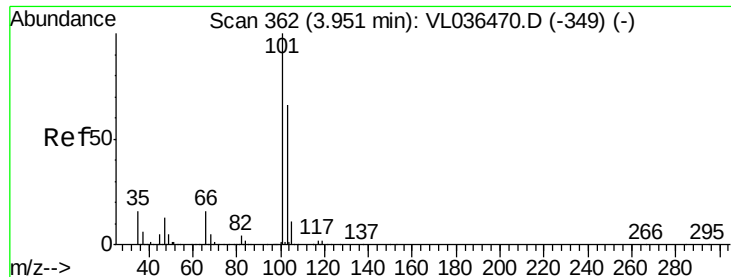
Tgt Ion: 43 Resp: 6372

Ion Ratio Lower Upper

43 100

57 126.5 39.0 58.6#

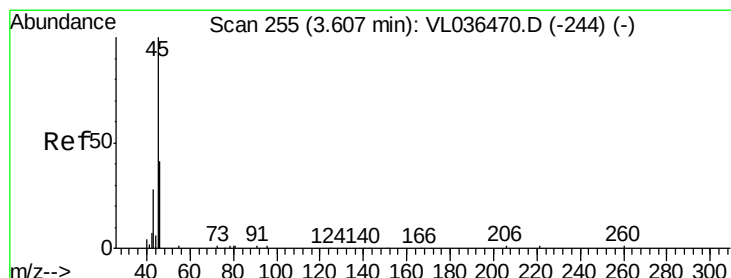
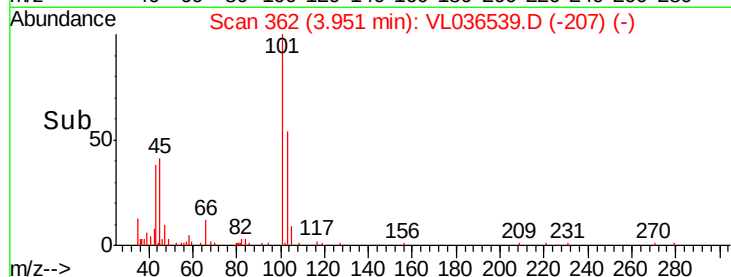
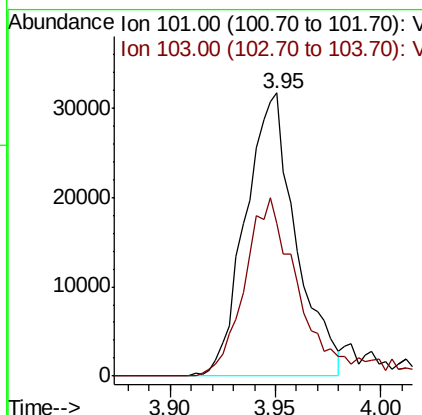
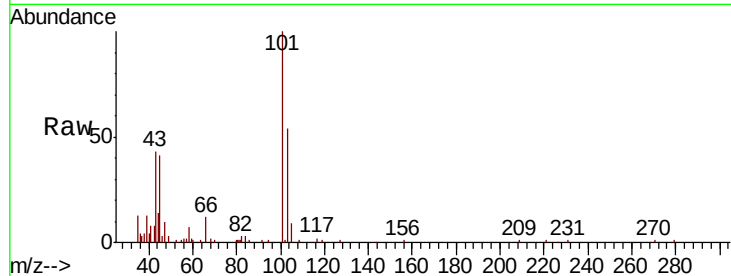




#11
 Trichlorofluoromethane
 Concen: 0.207 ppbv
 RT: 3.95 min Scan# 362
 Delta R.T. -0.00 min
 Lab File: VL036539.D
 Acq: 29 Mar 2021 14:40

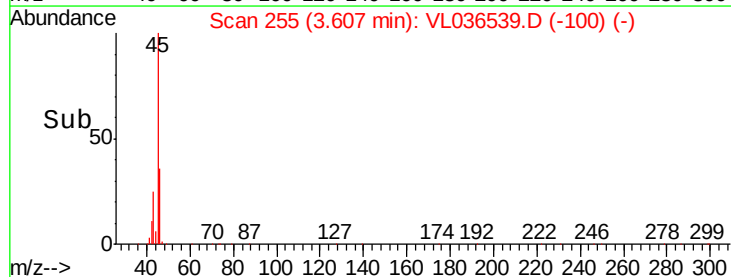
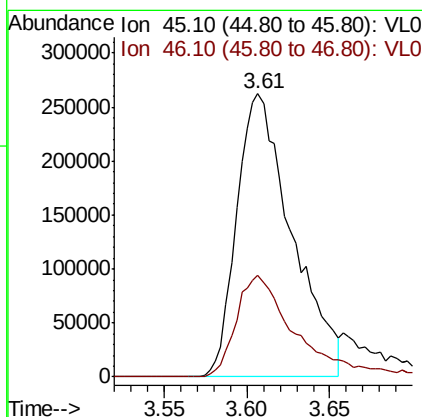
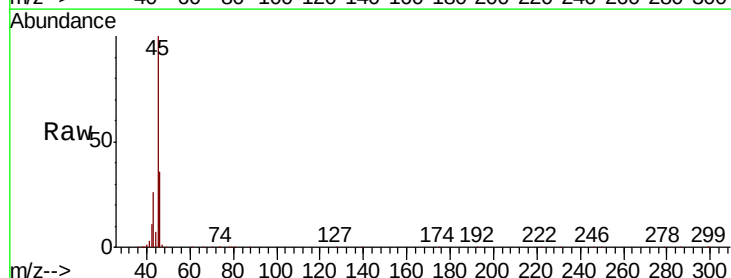
Instrument :
 MSVOA_L
 ClientSampleId :

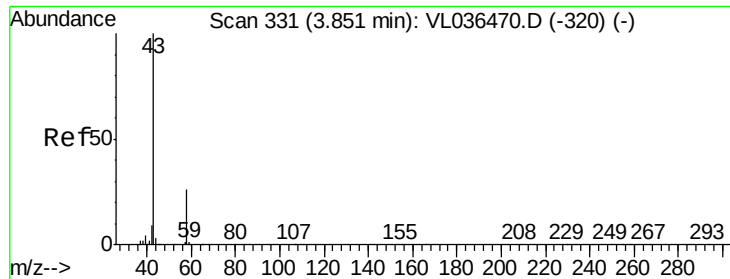
Tot Ion:101 Resp: 52761
 Ion Ratio Lower Upper
 101 100
 103 53.8 52.5 78.7



#13
 Ethanol
 Concen: 55.794 ppbv
 RT: 3.61 min Scan# 255
 Delta R.T. -0.00 min
 Lab File: VL036539.D
 Acq: 29 Mar 2021 14:40

Tgt Ion: 45 Resp: 605435
 Ion Ratio Lower Upper
 45 100
 46 38.9 16.6 66.2

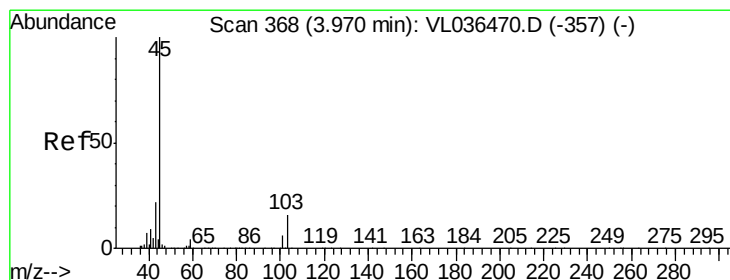
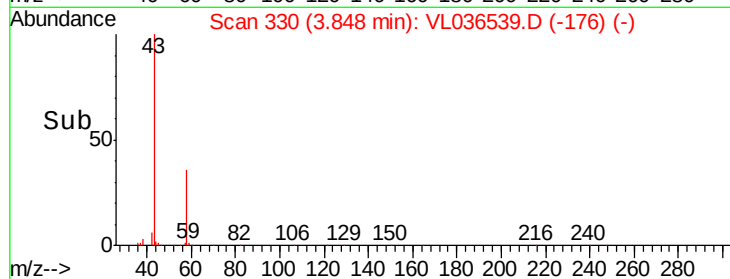
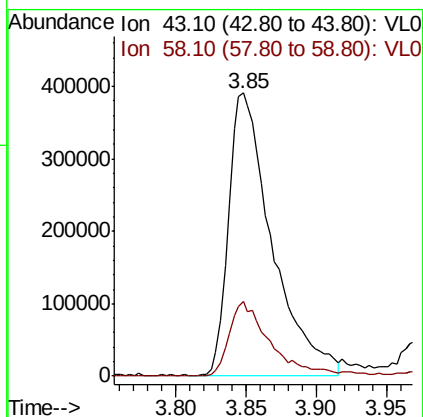
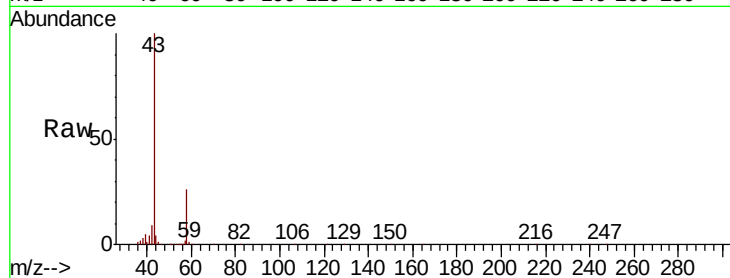




#15
Acetone
Concen: 5.559 ppbv
RT: 3.85 min Scan# 330
Delta R.T. -0.00 min
Lab File: VL036539.D
Acq: 29 Mar 2021 14:40

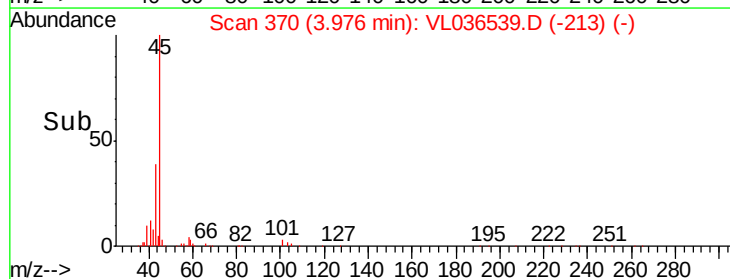
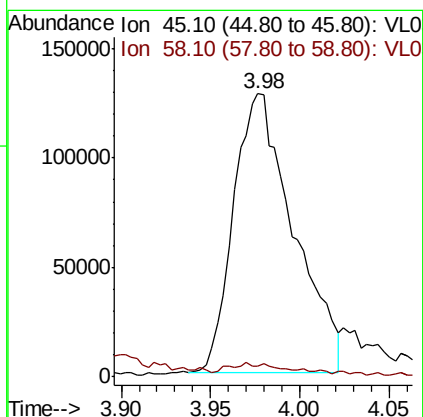
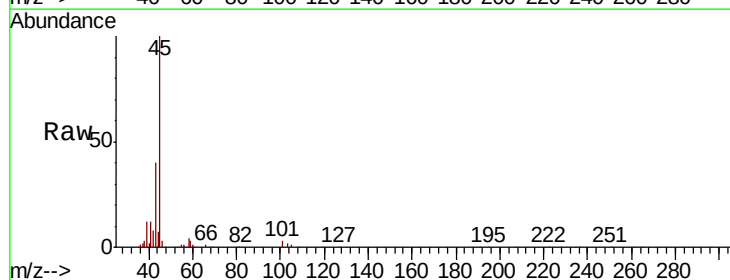
Instrument :
MSVOA_L
ClientSampleId :

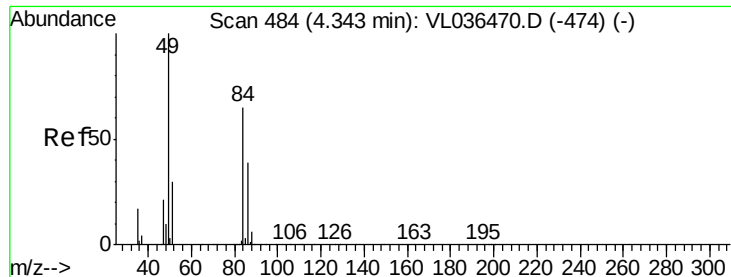
Tot Ion: 43 Resp: 837089
Ion Ratio Lower Upper
43 100
58 25.8 21.2 31.8



#19
Isopropyl Alcohol
Concen: 3.621 ppbv
RT: 3.98 min Scan# 370
Delta R.T. 0.01 min
Lab File: VL036539.D
Acq: 29 Mar 2021 14:40

Tgt Ion: 45 Resp: 299969
Ion Ratio Lower Upper
45 100
58 6.1 2.9 4.3#

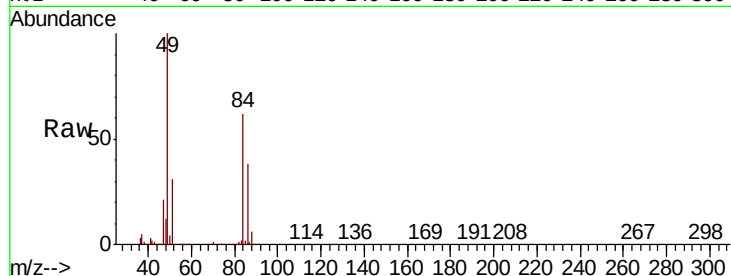




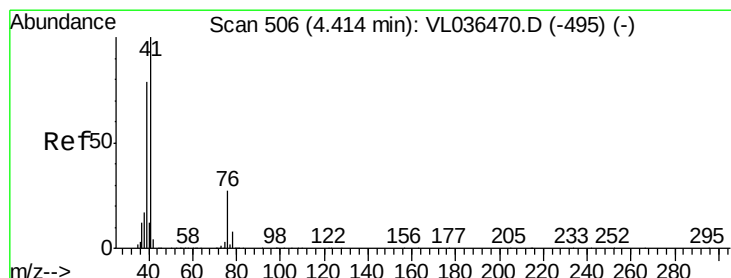
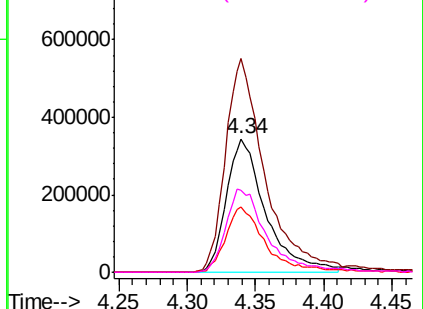
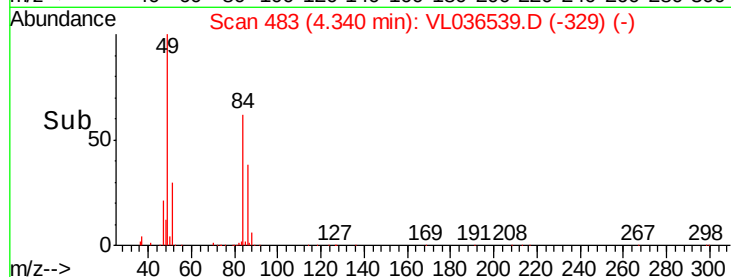
#20
Methylene Chloride
Concen: 9.736 ppbv
RT: 4.34 min Scan# 483
Delta R.T. -0.00 min
Lab File: VL036539.D
Acq: 29 Mar 2021 14:40

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 84 Resp: 686353
Ion Ratio Lower Upper
84 100
49 160.0 122.9 184.3
51 48.9 36.9 55.3
86 61.2 48.2 72.4

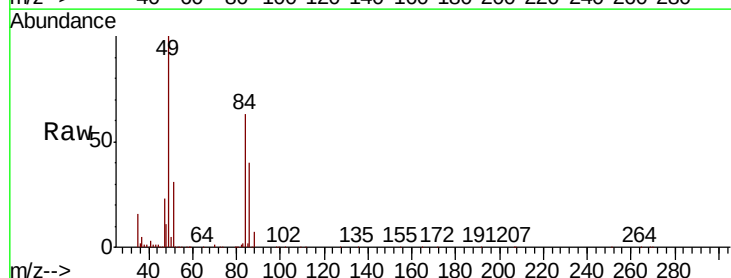


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

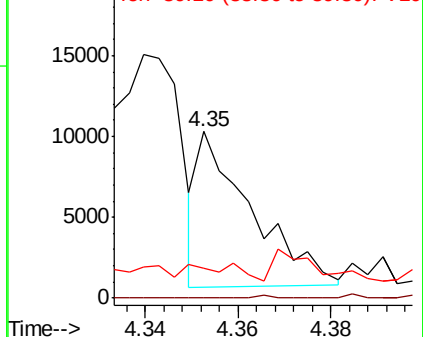
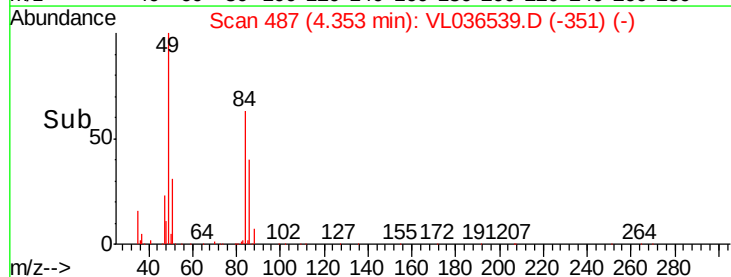


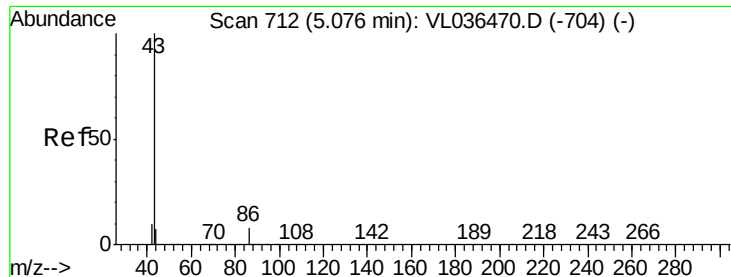
#21
Allyl Chloride
Concen: 0.064 ppbv
RT: 4.35 min Scan# 487
Delta R.T. -0.06 min
Lab File: VL036539.D
Acq: 29 Mar 2021 14:40

Tgt Ion: 41 Resp: 7742
Ion Ratio Lower Upper
41 100
76 2.3 22.9 34.3#
39 33.8 67.3 100.9#



Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0





#23

Vinyl Acetate

Concen: 0.039 ppbv

RT: 5.06 min Scan# 708

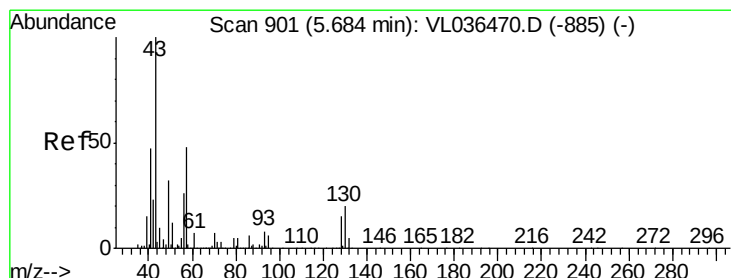
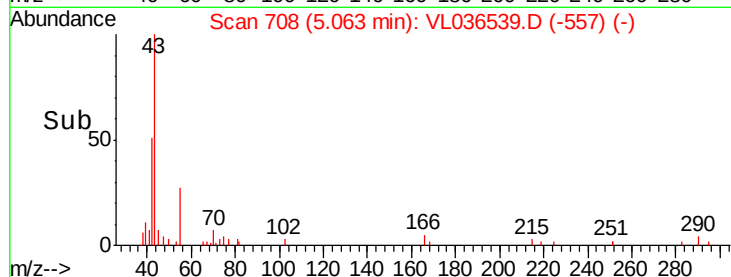
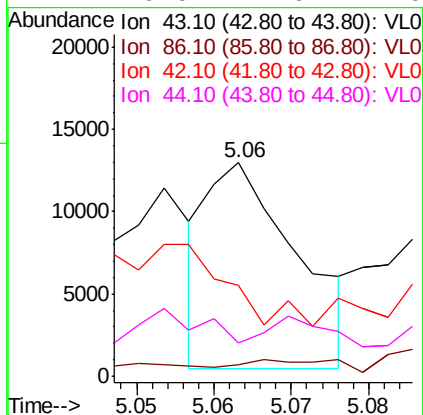
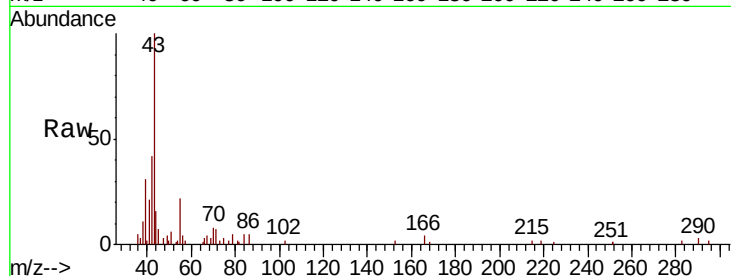
Delta R.T. -0.01 min

Lab File: VL036539.D

Acq: 29 Mar 2021 14:40

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:	43	Resp:	10136
Ion	Ratio	Lower	Upper
43	100		
86	1.5	5.4	8.0#
42	11.0	8.5	12.7
44	0.0	4.6	7.0#



#25

Ethyl Acetate

Concen: 3.037 ppbv

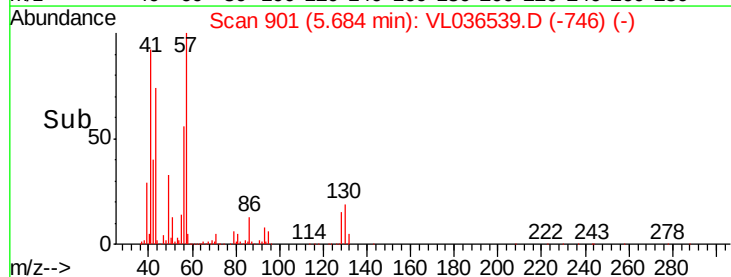
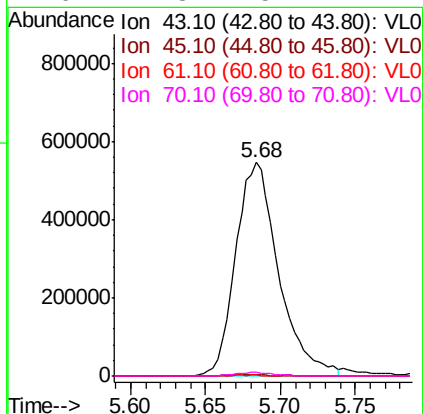
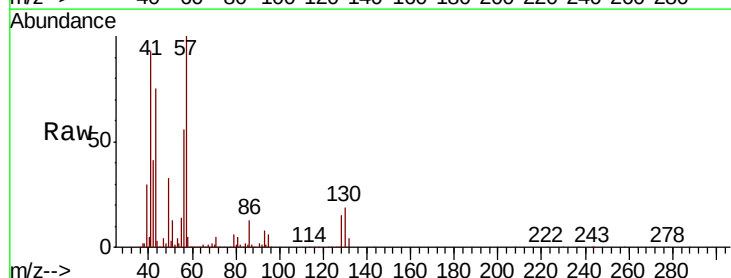
RT: 5.68 min Scan# 901

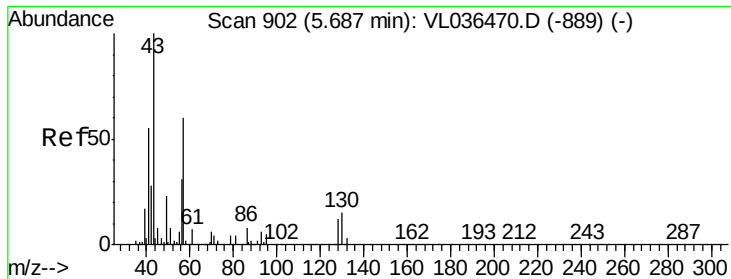
Delta R.T. -0.00 min

Lab File: VL036539.D

Acq: 29 Mar 2021 14:40

Tgt Ion:	43	Resp:	1087083
Ion	Ratio	Lower	Upper
43	100		
45	0.9	7.9	11.9#
61	0.6	7.4	11.2#
70	1.8	5.1	7.7#

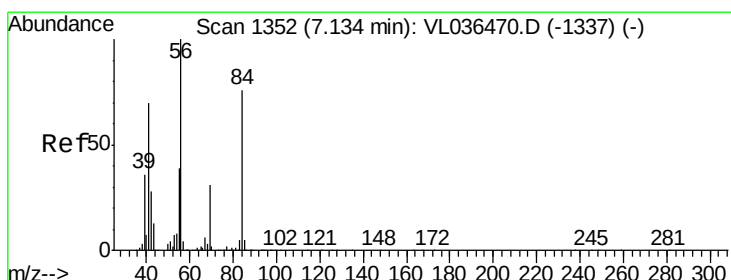
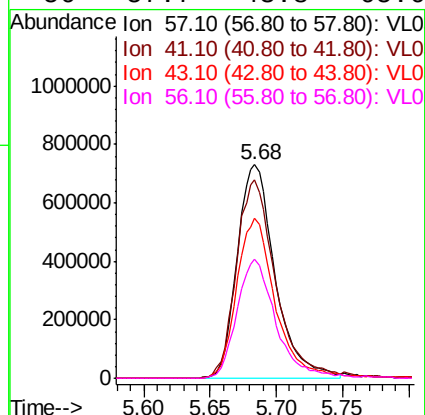
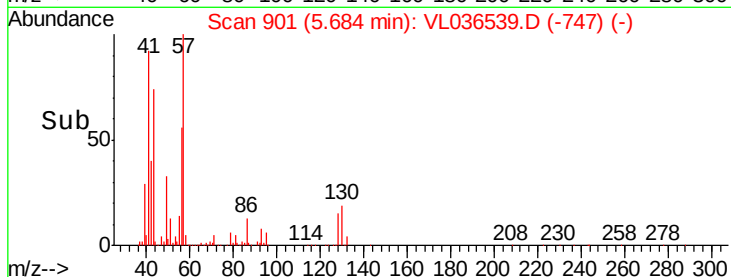
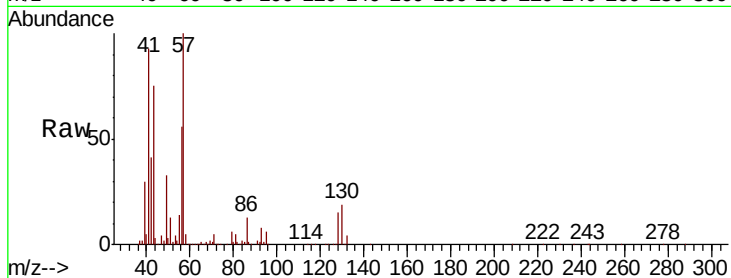




#26
Hexane
Concen: 8.764 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.00 min
Lab File: VL036539.D
Acq: 29 Mar 2021 14:40

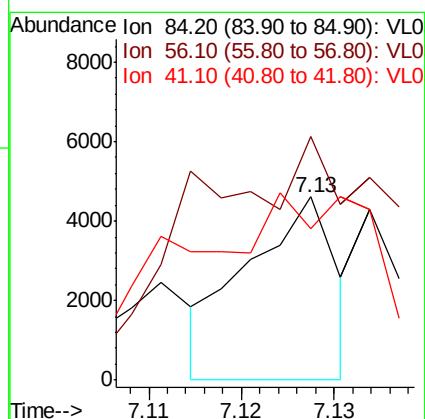
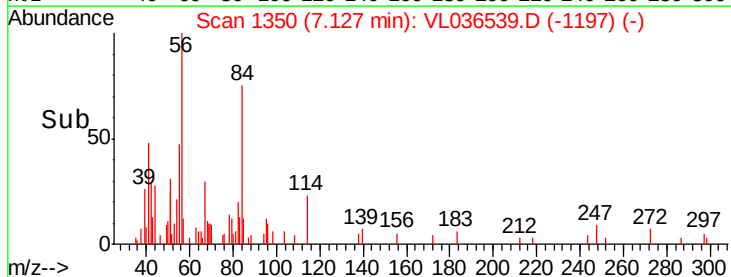
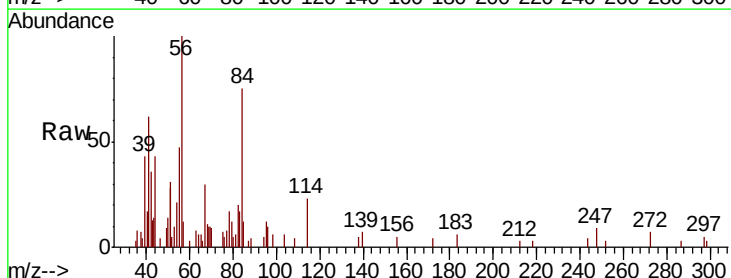
Instrument :
MSVOA_L
ClientSampleId :

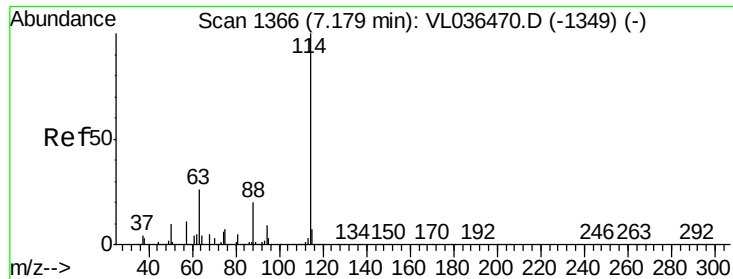
Tot Ion: 57 Resp: 1455868
Ion Ratio Lower Upper
57 100
41 97.6 77.2 115.8
43 77.1 173.8 260.6#
56 57.7 43.8 65.6



#30
Cyclohexane
Concen: 0.023 ppbv
RT: 7.13 min Scan# 1350
Delta R.T. -0.01 min
Lab File: VL036539.D
Acq: 29 Mar 2021 14:40

Tgt Ion: 84 Resp: 3075
Ion Ratio Lower Upper
84 100
56 0.0 114.6 171.8#
41 383.1 75.3 112.9#

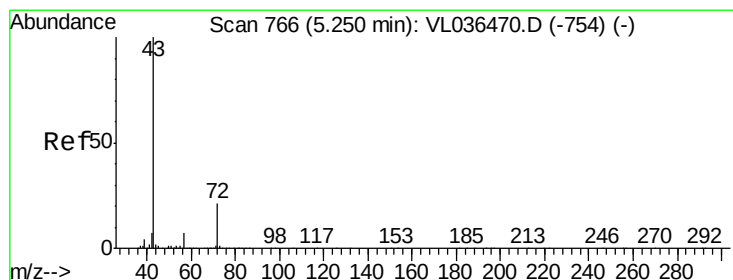
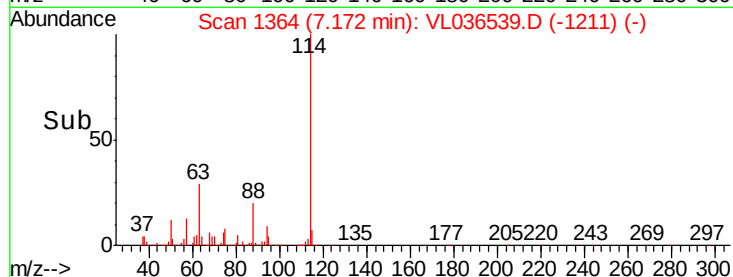
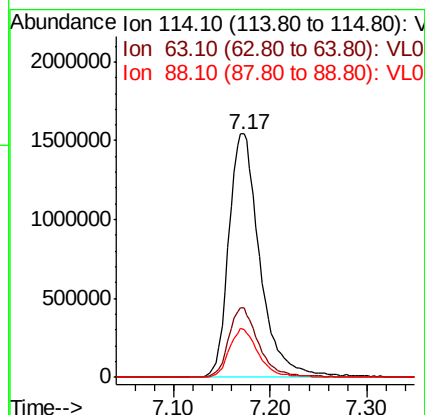
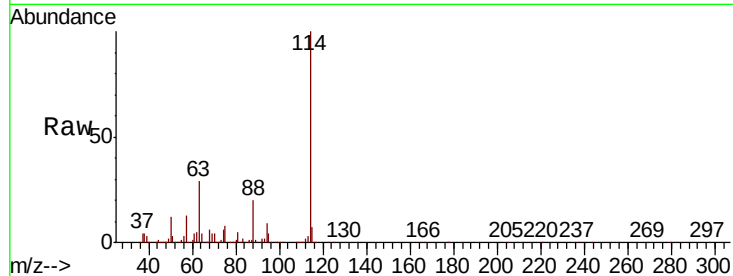




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1364
 Delta R.T. -0.01 min
 Lab File: VL036539.D
 Acq: 29 Mar 2021 14:40

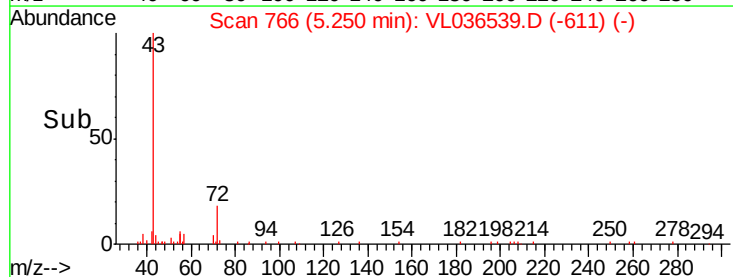
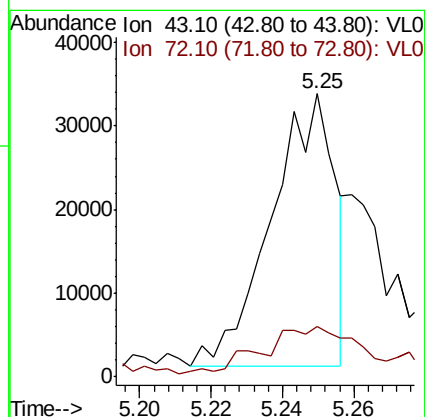
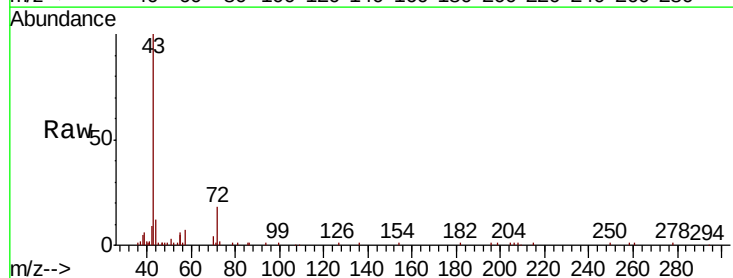
Instrument :
 MSVOA_L
 ClientSampleId :

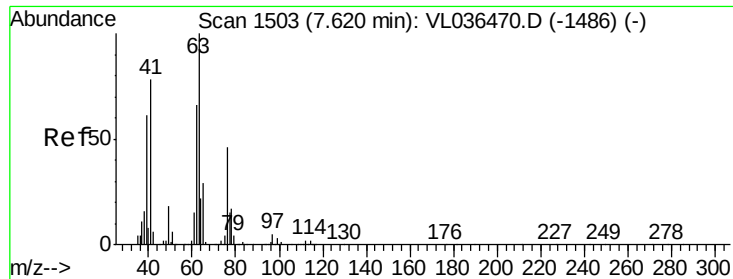
Tot Ion:114 Resp: 3441916
 Ion Ratio Lower Upper
 114 100
 63 27.9 22.4 33.6
 88 19.2 15.4 23.0



#34
 2-Butanone
 Concen: 0.238 ppbv
 RT: 5.25 min Scan# 766
 Delta R.T. -0.00 min
 Lab File: VL036539.D
 Acq: 29 Mar 2021 14:40

Tgt Ion: 43 Resp: 39979
 Ion Ratio Lower Upper
 43 100
 72 38.9 17.0 25.6#





#39

1,2-Dichloropropane

Concen: 7.269 ppbv

RT: 7.17 min Scan# 1364

Delta R.T. -0.45 min

Lab File: VL036539.D

Acq: 29 Mar 2021 14:40

Instrument :

MSVOA_L

ClientSampleId :

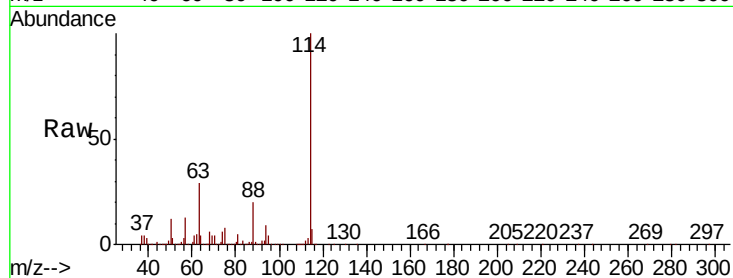
Tot Ion: 63 Resp: 936028

Ion Ratio Lower Upper

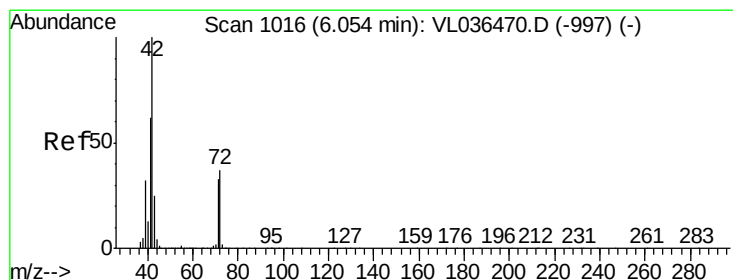
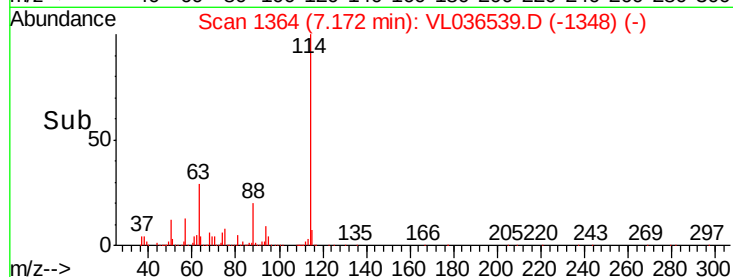
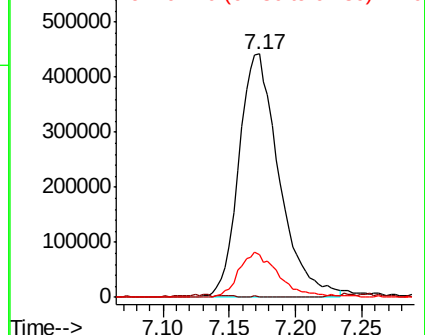
63 100

41 0.0 62.4 93.6#

62 17.2 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: 8.001 ppbv

RT: 5.68 min Scan# 901

Delta R.T. -0.37 min

Lab File: VL036539.D

Acq: 29 Mar 2021 14:40

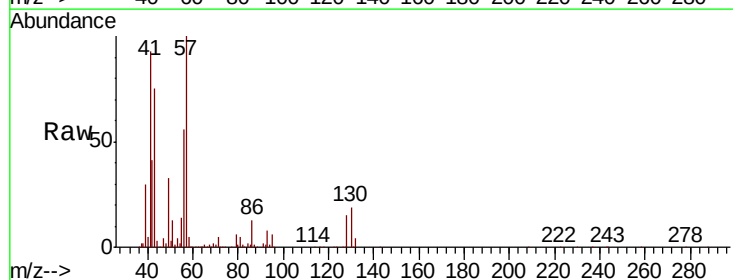
Tgt Ion: 42 Resp: 619822

Ion Ratio Lower Upper

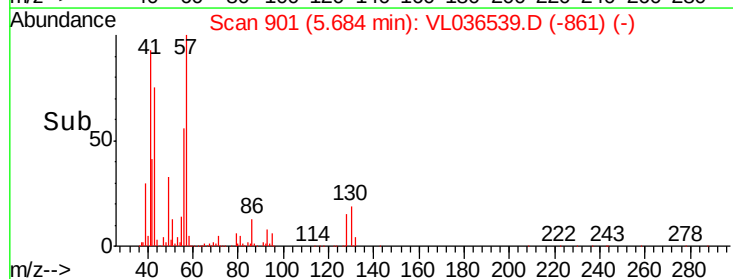
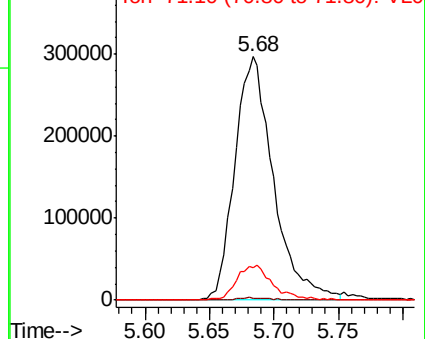
42 100

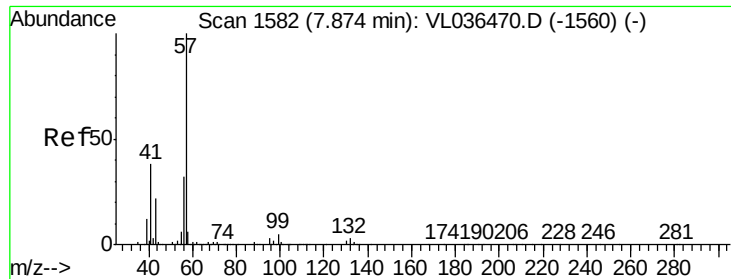
72 1.0 27.6 41.4#

71 13.6 27.0 40.4#



Abundance Ion 42.10 (41.80 to 42.80): VL0
Ion 72.10 (71.80 to 72.80): VL0
Ion 71.10 (70.80 to 71.80): VL0





#44

2,2,4-Trimethylpentane

Concen: 0.029 ppbv

RT: 7.87 min Scan# 1581

Delta R.T. -0.00 min

Lab File: VL036539.D

Acq: 29 Mar 2021 14:40

Instrument :

MSVOA_L

ClientSampleId :

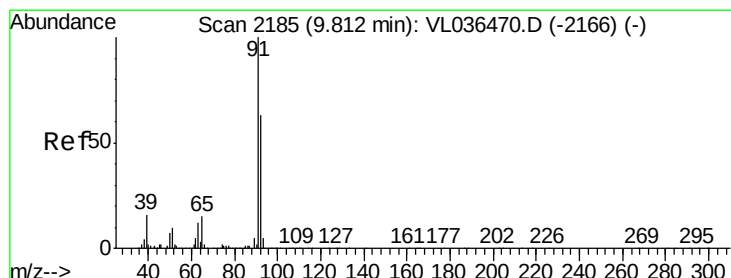
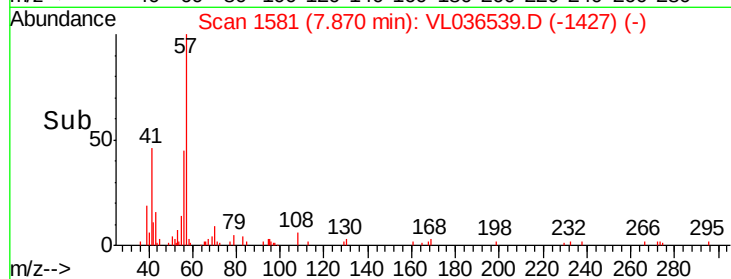
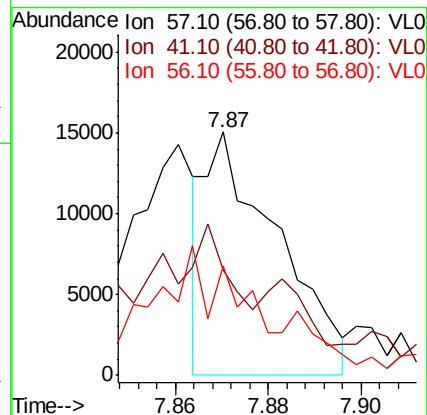
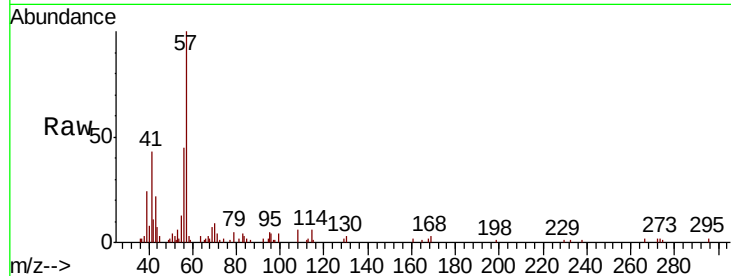
Tot Ion: 57 Resp: 16339

Ion Ratio Lower Upper

57 100

41 128.7 28.8 43.2#

56 108.5 26.1 39.1#



#53

Toluene

Concen: 2.155 ppbv

RT: 9.80 min Scan# 2181

Delta R.T. -0.01 min

Lab File: VL036539.D

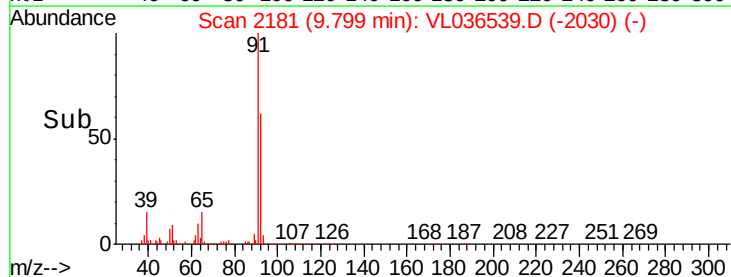
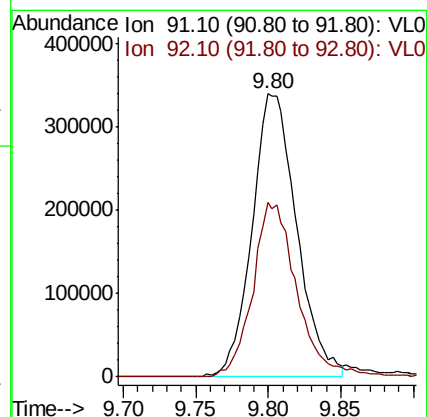
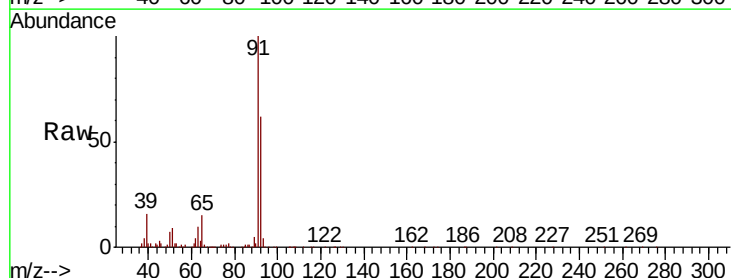
Acq: 29 Mar 2021 14:40

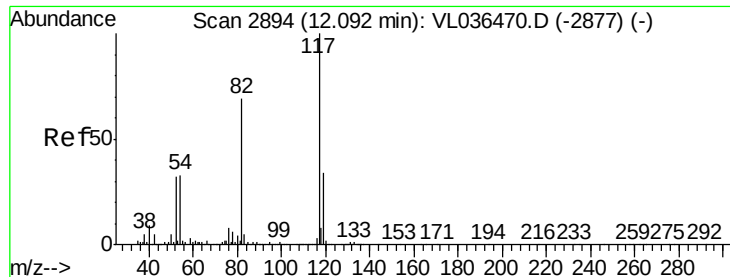
Tgt Ion: 91 Resp: 728641

Ion Ratio Lower Upper

91 100

92 61.5 48.8 73.2

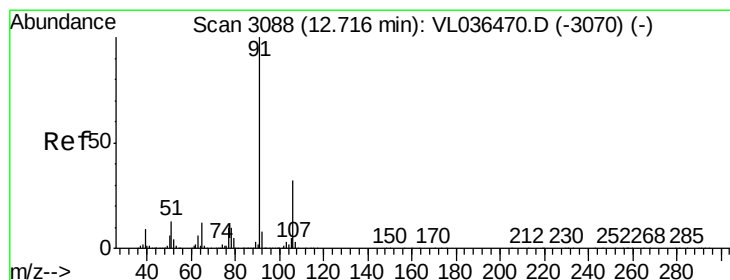
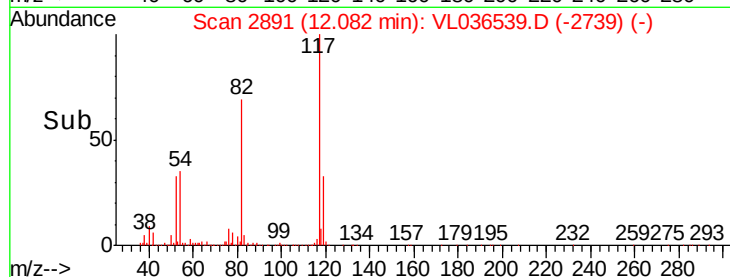
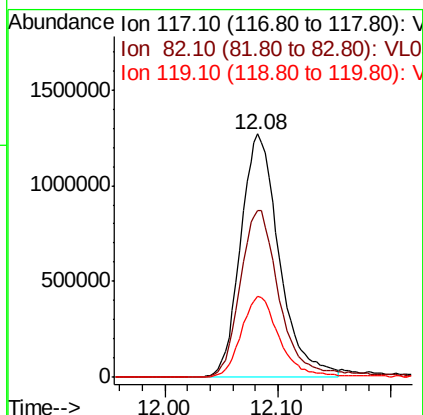
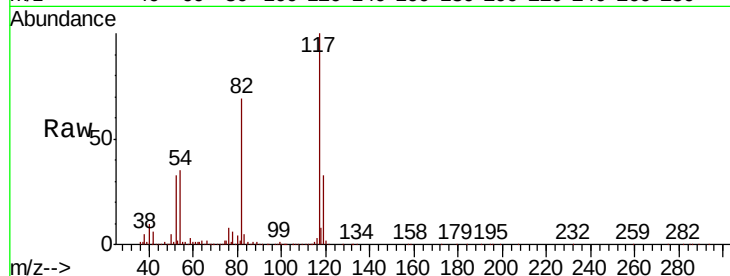




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min Scan# 2891
Delta R.T. -0.01 min
Lab File: VL036539.D
Acq: 29 Mar 2021 14:40

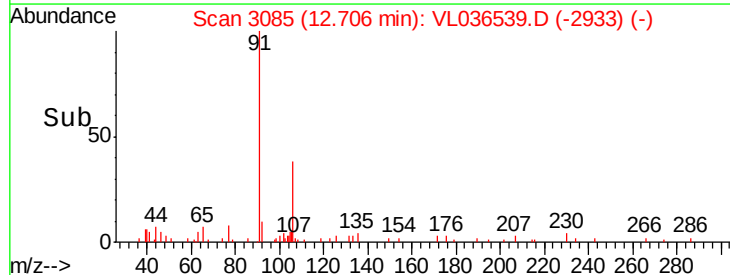
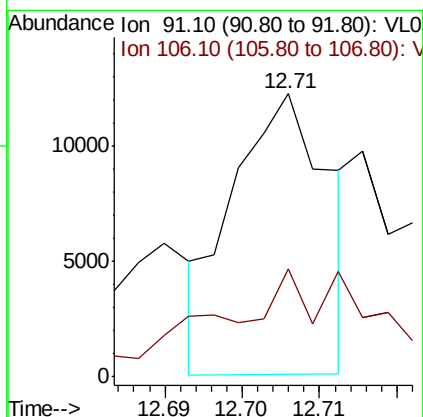
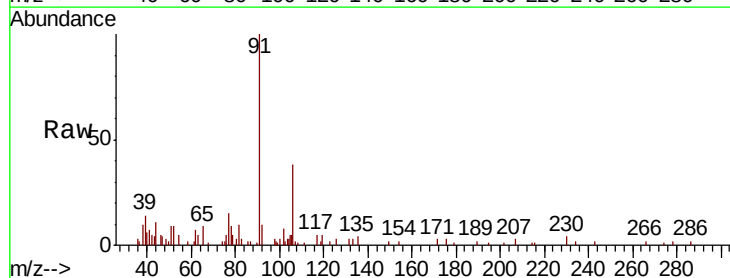
Instrument :
MSVOA_L
ClientSampleId :

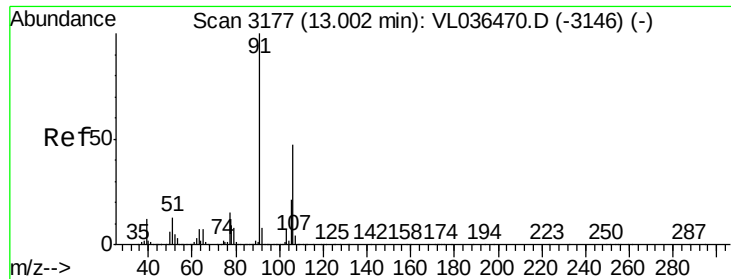
Tot Ion:117 Resp: 3015473
Ion Ratio Lower Upper
117 100
82 71.0 57.4 86.0
119 33.7 47.4 71.0#



#58
Ethyl Benzene
Concen: 0.024 ppbv
RT: 12.71 min Scan# 3085
Delta R.T. -0.01 min
Lab File: VL036539.D
Acq: 29 Mar 2021 14:40

Tgt Ion: 91 Resp: 10500
Ion Ratio Lower Upper
91 100
106 28.4 25.3 37.9

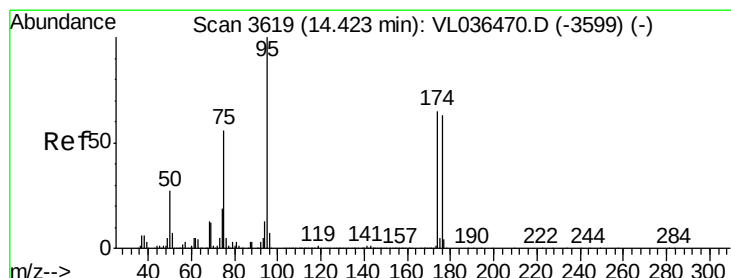
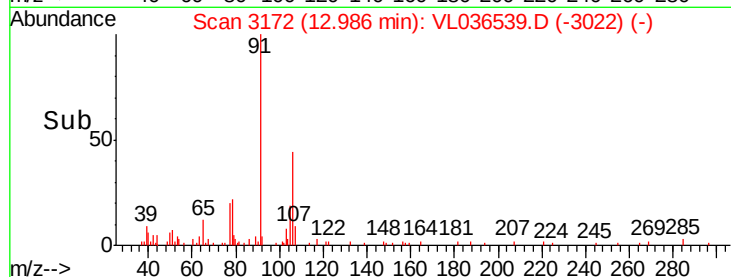
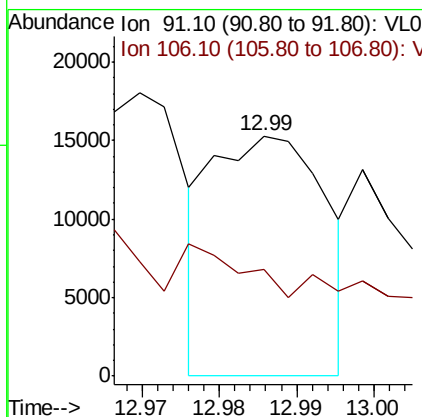
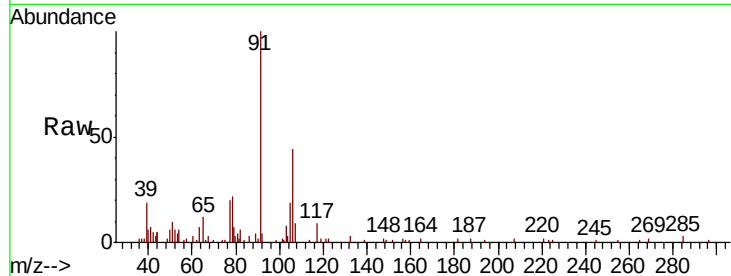




#59
m/p-Xylene
Concen: 0.041 ppbv
RT: 12.99 min Scan# 3172
Delta R.T. -0.02 min
Lab File: VL036539.D
Acq: 29 Mar 2021 14:40

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 91 Resp: 15547
Ion Ratio Lower Upper
91 100
106 0.0 35.3 52.9#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.430 ppbv
RT: 14.41 min Scan# 3616
Delta R.T. -0.01 min
Lab File: VL036539.D
Acq: 29 Mar 2021 14:40

Tgt Ion: 95 Resp: 2266399
Ion Ratio Lower Upper
95 100
174 69.6 51.0 76.6
175 5.3 3.9 5.9

