

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032621\
 Data File : VL036527.D
 Acq On : 26 Mar 2021 23:49
 Operator : SY/AP
 Sample : M1760-16DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 27 03:31:50 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	1298834	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3006274	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2722676	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	2057609	9.48	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.80%

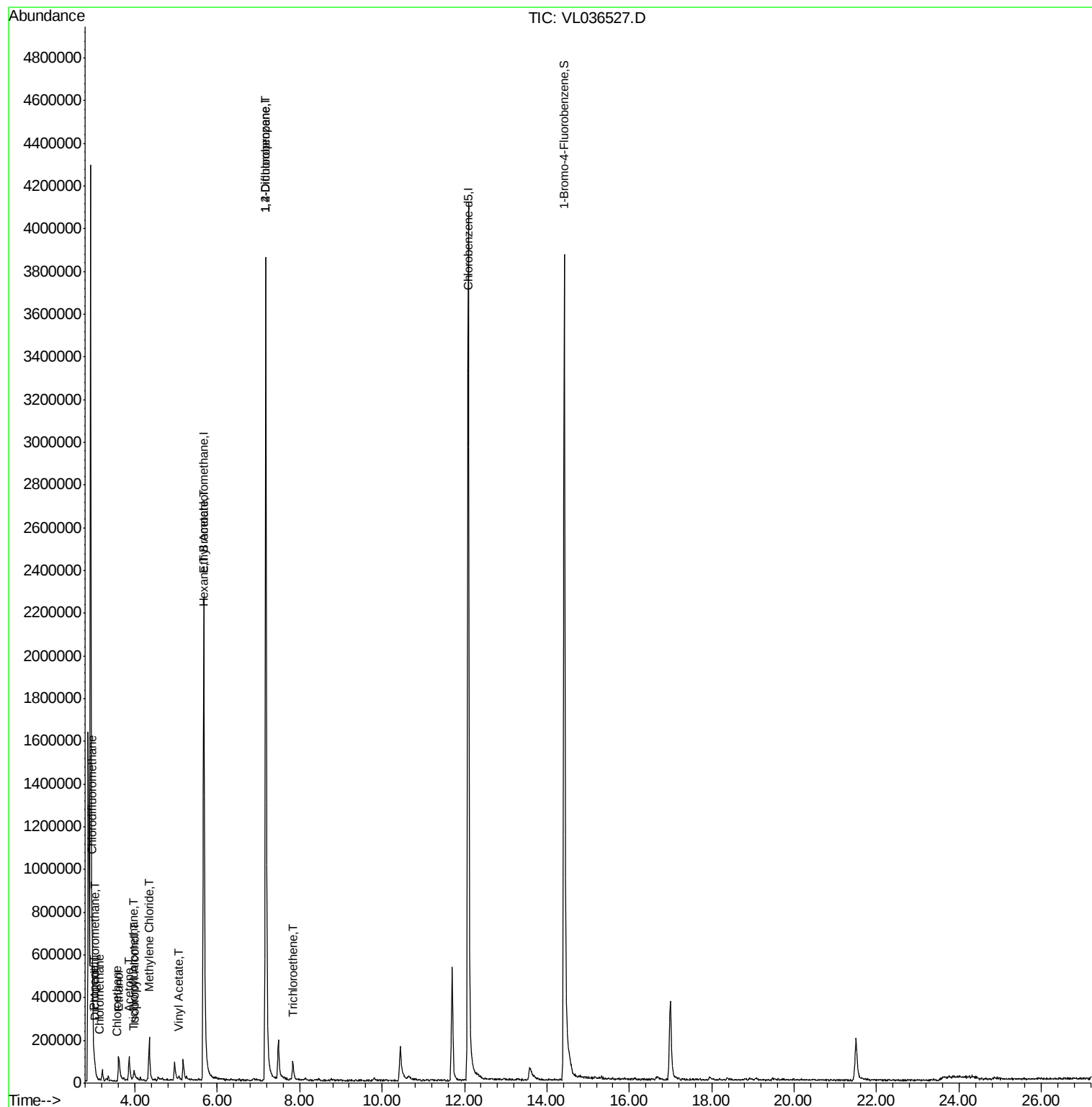
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.04	85	12651	0.060 ppbv #	87
3) Chlorodifluoromethane	2.96	51	374221	1.542 ppbv #	60
4) Chloromethane	3.13	50	2482	0.029 ppbv #	87
7) Chloroethane	3.56	64	610	0.020 ppbv #	42
9) Propene	3.02	41	11504	0.149 ppbv	84
11) Trichlorofluoromethane	3.95	101	5102	0.024 ppbv #	59
13) Ethanol	3.61	45	114120	12.387 ppbv	83
15) Acetone	3.85	43	126415	0.989 ppbv #	70
19) Isopropyl Alcohol	3.98	45	55984	0.796 ppbv #	77
20) Methylene Chloride	4.35	84	69995	1.169 ppbv	94
23) Vinyl Acetate	5.07	43	11228	0.051 ppbv #	60
25) Ethyl Acetate	5.68	43	41043	0.135 ppbv #	94
26) Hexane	5.68	57	28034	0.199 ppbv #	69
38) Trichloroethene	7.84	130	20765	0.192 ppbv #	80
39) 1,2-Dichloropropane	7.18	63	844144	7.506 ppbv #	24

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

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Quant Time: Mar 27 03:31:50 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: VL036527.D

Acq: 26 Mar 2021 23:49

Instrument :

MSVOA_L

ClientSampled :

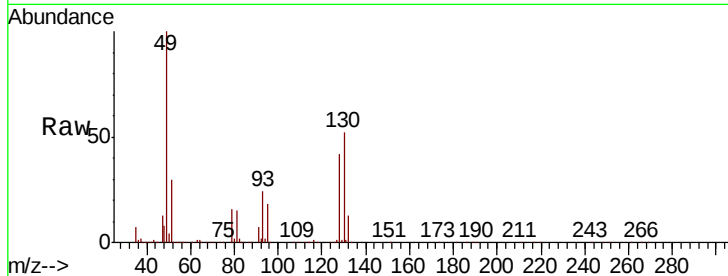
Tot Ion: 49 Resp: 1298834

Ion Ratio Lower Upper

49 100

128 45.2 23.5 70.6

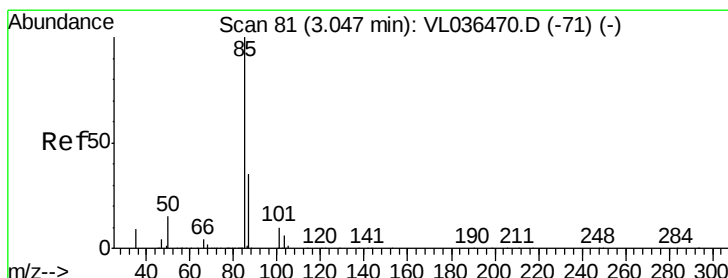
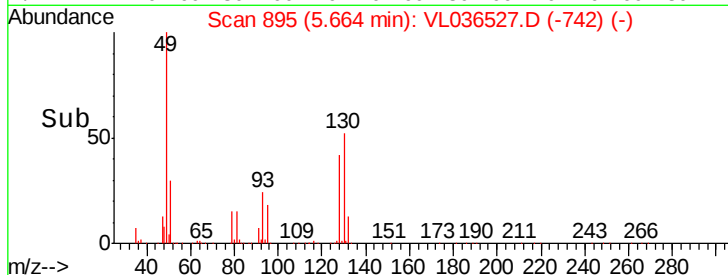
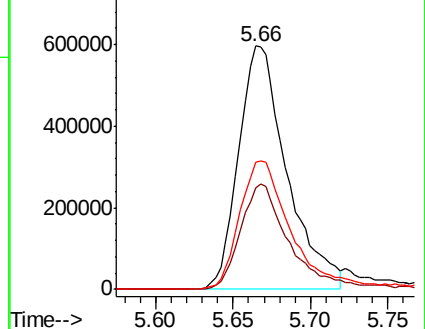
130 58.4 29.1 87.4



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: 0.060 ppbv

RT: 3.04 min Scan# 80

Delta R.T. -0.00 min

Lab File: VL036527.D

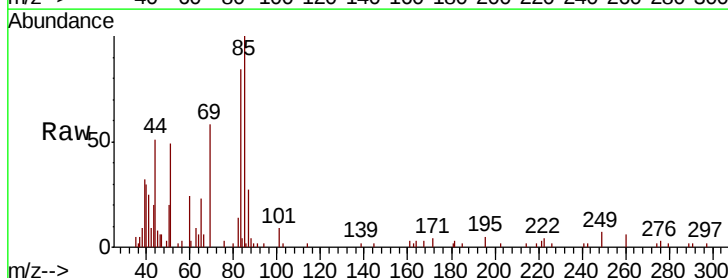
Acq: 26 Mar 2021 23:49

Tgt Ion: 85 Resp: 12651

Ion Ratio Lower Upper

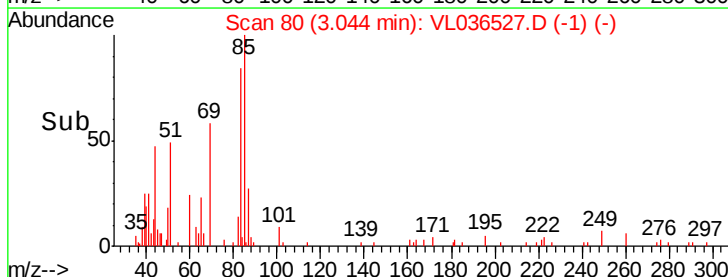
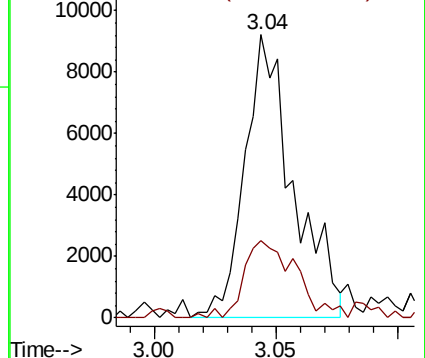
85 100

87 27.4 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: 1.542 ppbv

RT: 2.96 min Scan# 54

Delta R.T. -0.03 min

Lab File: VL036527.D

Acq: 26 Mar 2021 23:49

Instrument :

MSVOA_L

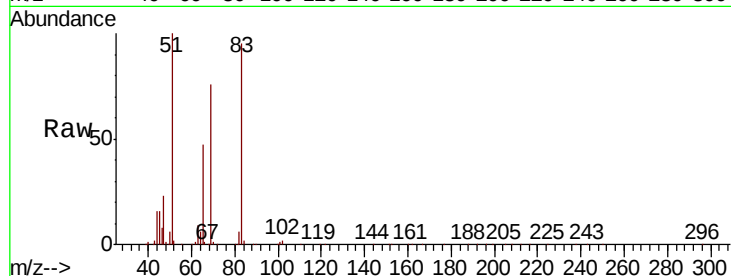
ClientSampled :

Tot Ion: 51 Resp: 374221

Ion Ratio Lower Upper

51 100

67 0.5 14.7 22.1#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

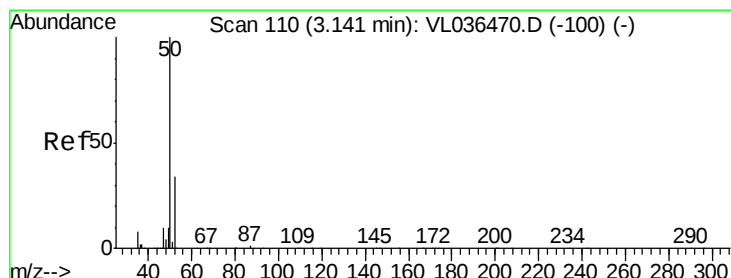
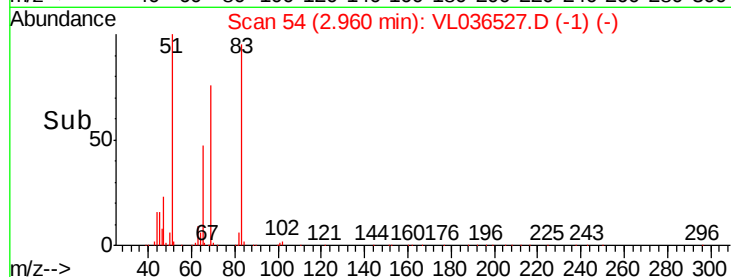
300000

200000

100000

0

Time-->



#4

Chloromethane

Concen: 0.029 ppbv

RT: 3.13 min Scan# 108

Delta R.T. -0.01 min

Lab File: VL036527.D

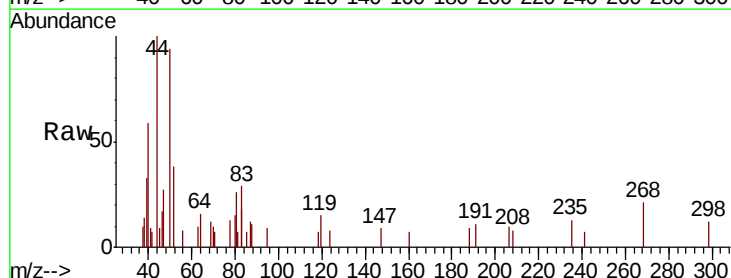
Acq: 26 Mar 2021 23:49

Tgt Ion: 50 Resp: 2482

Ion Ratio Lower Upper

50 100

52 26.6 27.0 40.6#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

2000

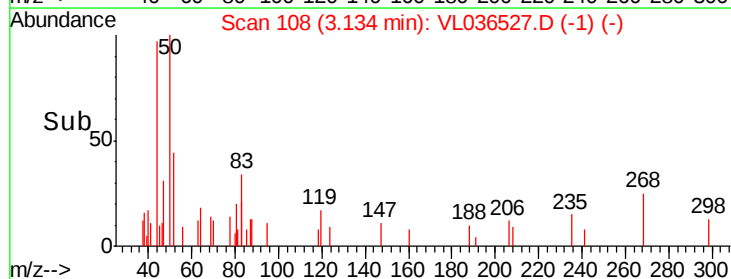
1500

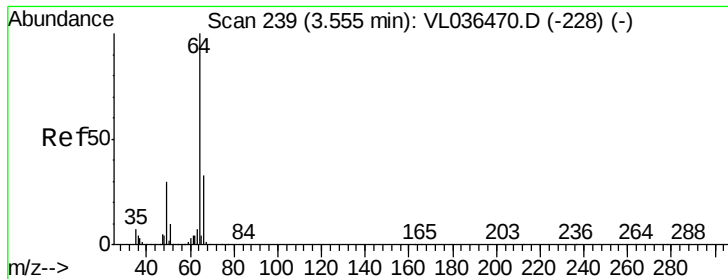
1000

500

0

Time-->





#7

Chloroethane

Concen: 0.020 ppbv

RT: 3.56 min Scan# 239

Delta R.T. -0.00 min

Lab File: VL036527.D

Acq: 26 Mar 2021 23:49

Instrument :

MSVOA_L

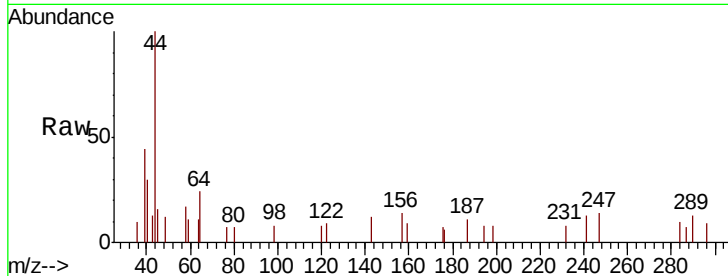
ClientSampleId :

Tot Ion: 64 Resp: 610

Ion Ratio Lower Upper

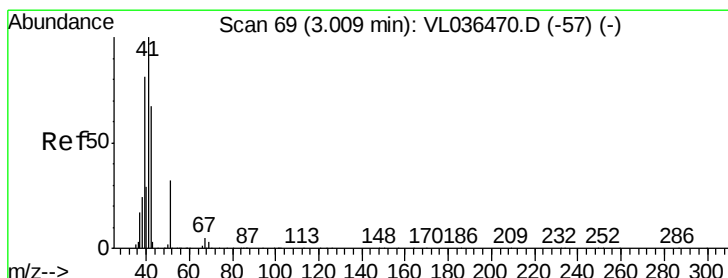
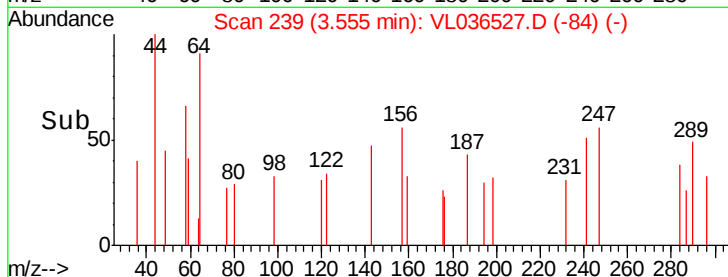
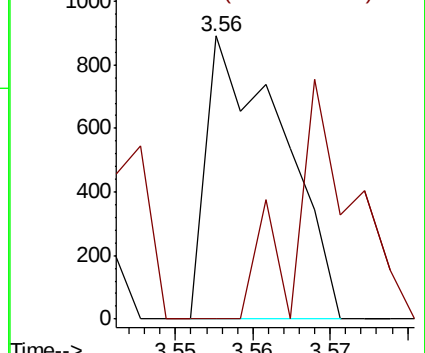
64 100

66 0.0 26.2 39.2#



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#9

Propene

Concen: 0.149 ppbv

RT: 3.02 min Scan# 72

Delta R.T. 0.01 min

Lab File: VL036527.D

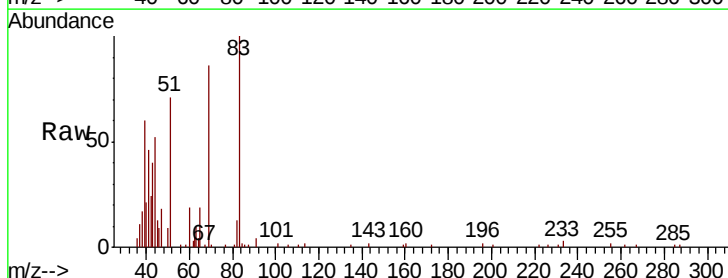
Acq: 26 Mar 2021 23:49

Tgt Ion: 41 Resp: 11504

Ion Ratio Lower Upper

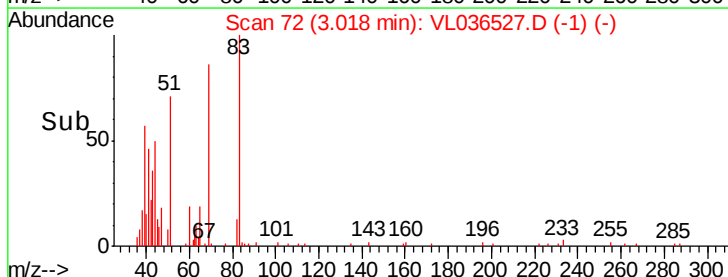
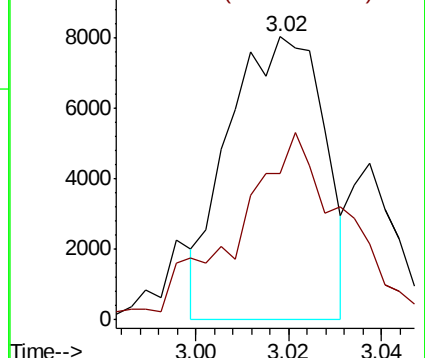
41 100

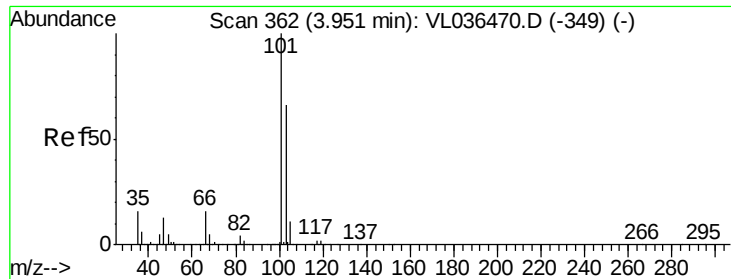
42 84.8 57.0 85.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

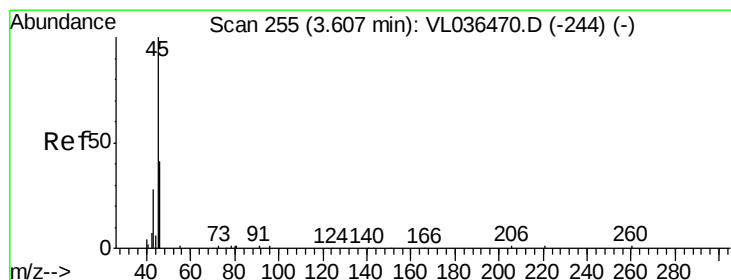
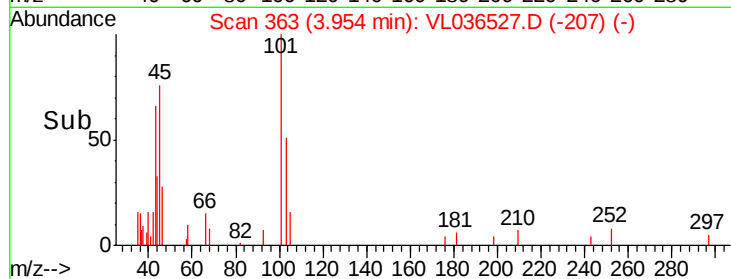
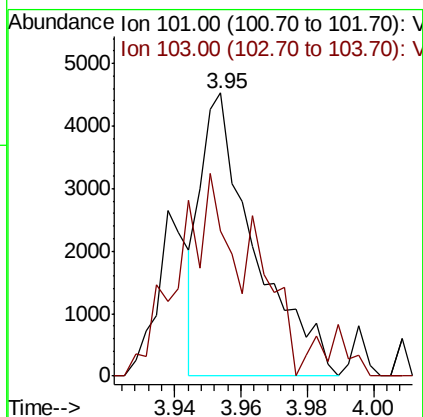
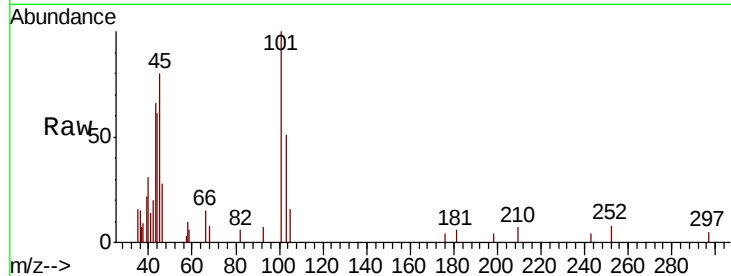




#11
 Trichlorofluoromethane
 Concen: 0.024 ppbv
 RT: 3.95 min Scan# 363
 Delta R.T. 0.00 min
 Lab File: VL036527.D
 Acq: 26 Mar 2021 23:49

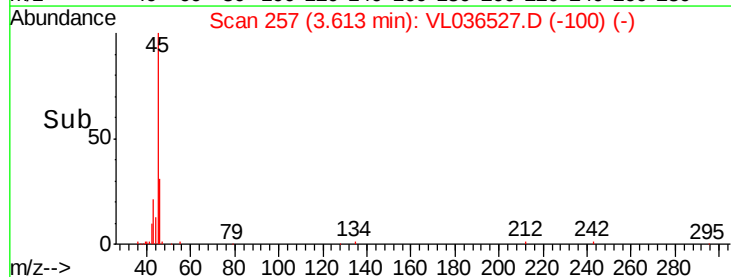
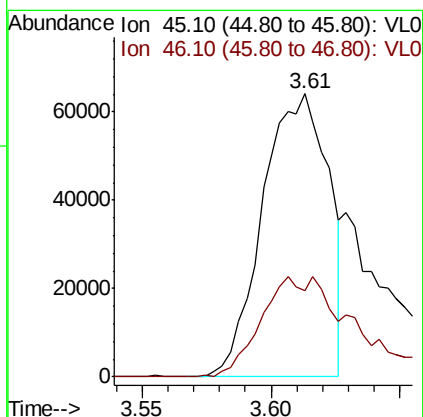
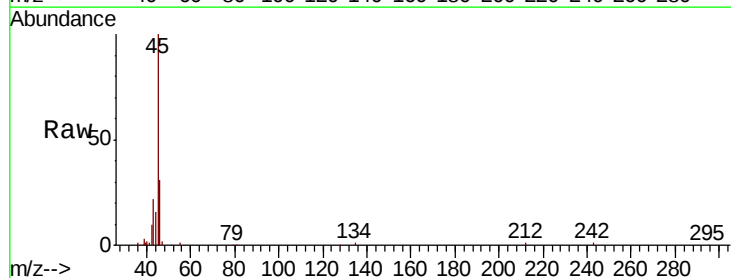
Instrument :
 MSVOA_L
 ClientSampleId :

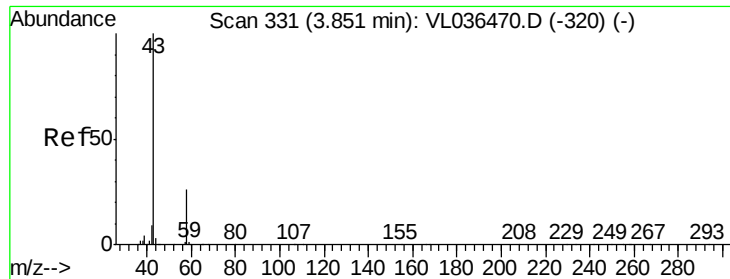
Tot Ion:101 Resp: 5102
 Ion Ratio Lower Upper
 101 100
 103 32.9 52.5 78.7#



#13
 Ethanol
 Concen: 12.387 ppbv
 RT: 3.61 min Scan# 257
 Delta R.T. 0.01 min
 Lab File: VL036527.D
 Acq: 26 Mar 2021 23:49

Tgt Ion: 45 Resp: 114120
 Ion Ratio Lower Upper
 45 100
 46 52.3 16.6 66.2





#15

Acetone

Concen: 0.989 ppbv

RT: 3.85 min Scan# 332

Delta R.T. 0.00 min

Lab File: VL036527.D

Acq: 26 Mar 2021 23:49

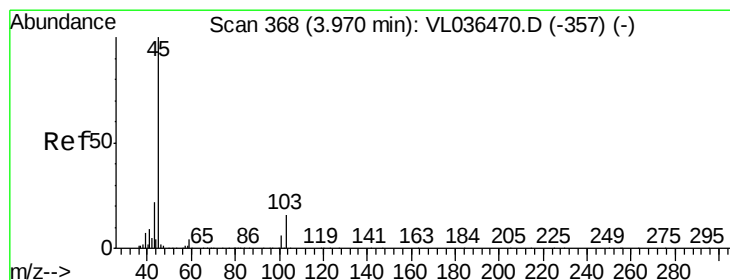
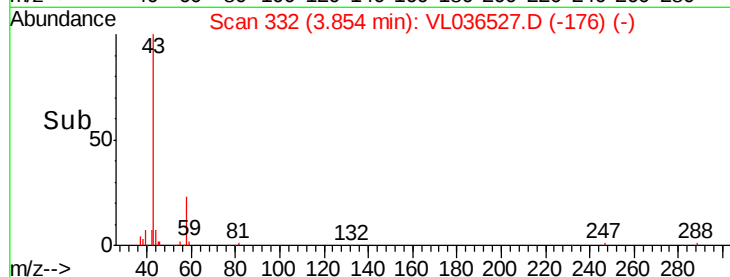
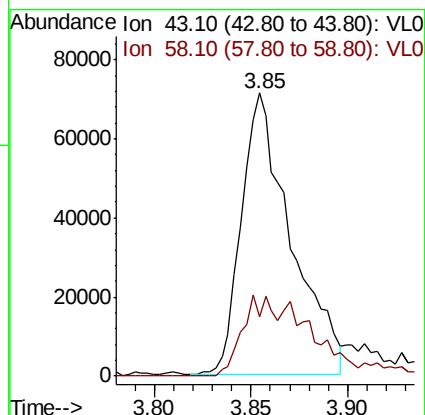
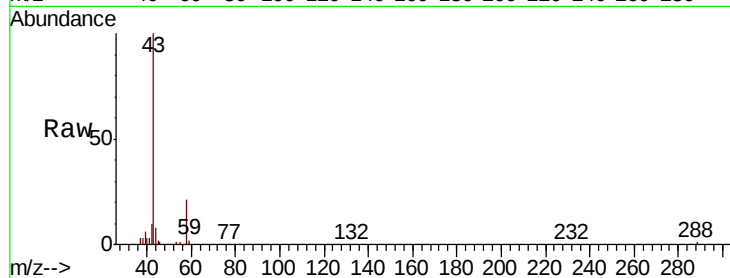
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 126415

Ion Ratio Lower Upper

43 100

58 41.7 21.2 31.8#



#19

Isopropyl Alcohol

Concen: 0.796 ppbv

RT: 3.98 min Scan# 371

Delta R.T. 0.01 min

Lab File: VL036527.D

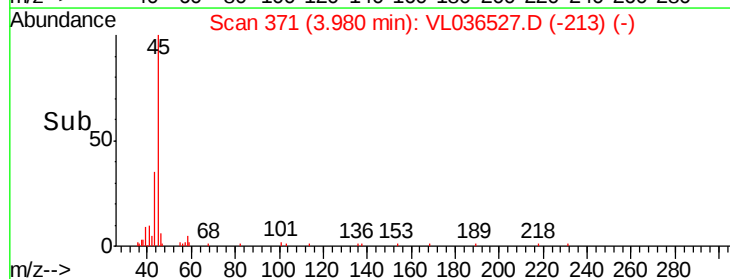
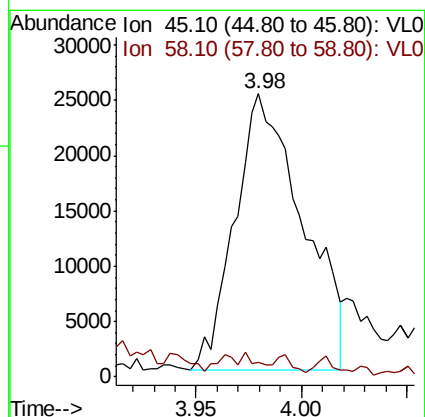
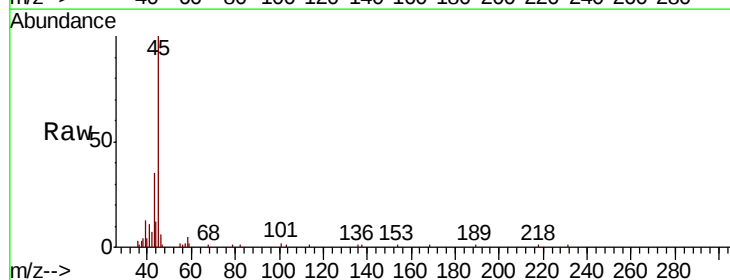
Acq: 26 Mar 2021 23:49

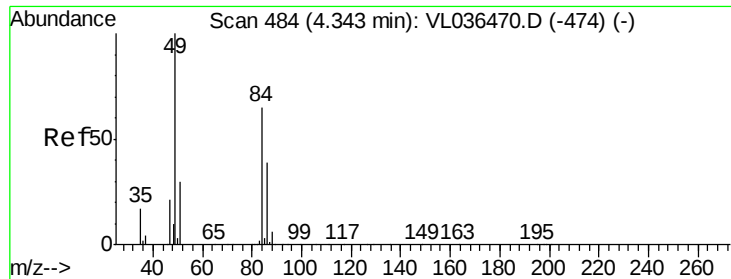
Tgt Ion: 45 Resp: 55984

Ion Ratio Lower Upper

45 100

58 11.0 2.9 4.3#

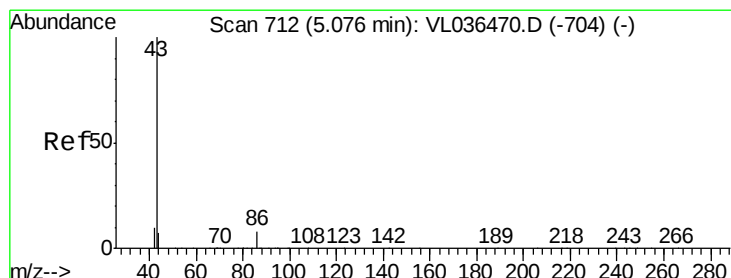
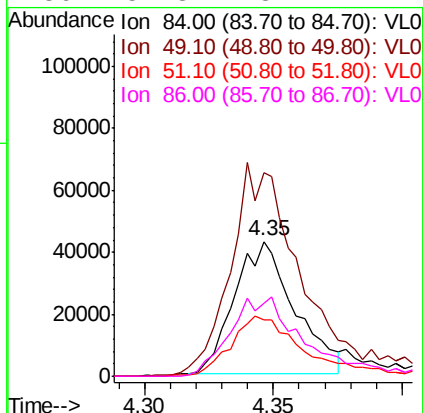
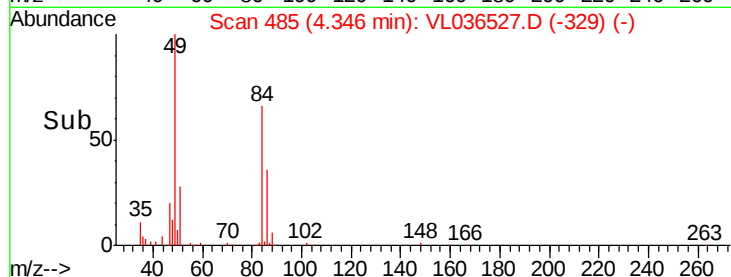
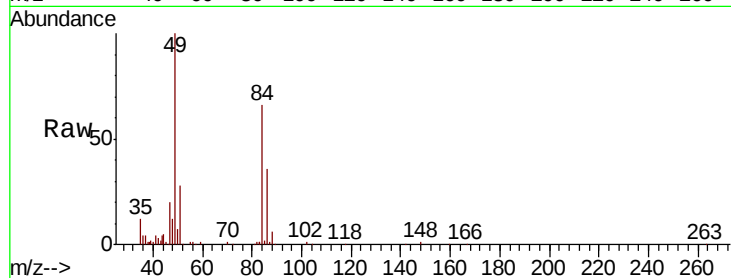




#20
Methvlene Chloride
Concen: 1.169 ppbv
RT: 4.35 min Scan# 485
Delta R.T. 0.00 min
Lab File: VL036527.D
Acq: 26 Mar 2021 23:49

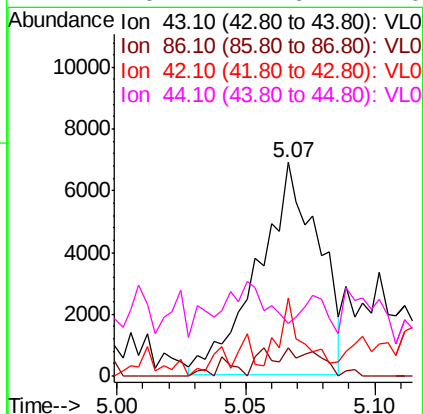
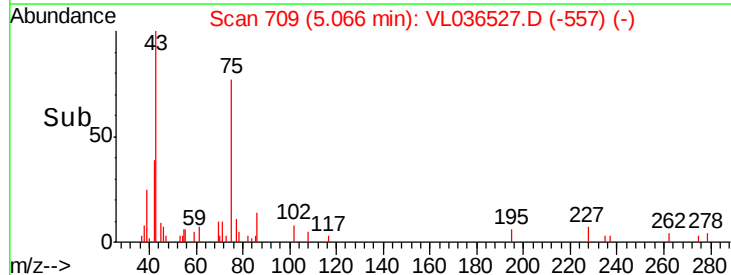
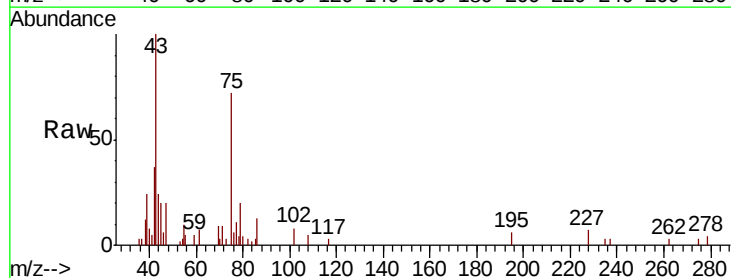
Instrument :
MSVOA_L
ClientSampled :

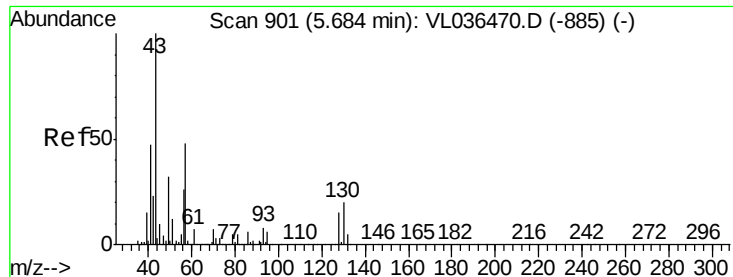
Tot Ion:	84	Resp:	69995
Ion	Ratio	Lower	Upper
84	100		
49	147.8	122.9	184.3
51	41.3	36.9	55.3
86	54.3	48.2	72.4



#23
Vinyl Acetate
Concen: 0.051 ppbv
RT: 5.07 min Scan# 709
Delta R.T. -0.01 min
Lab File: VL036527.D
Acq: 26 Mar 2021 23:49

Tgt Ion:	43	Resp:	11228
Ion	Ratio	Lower	Upper
43	100		
86	13.9	5.4	8.0#
42	38.2	8.5	12.7#
44	6.7	4.6	7.0

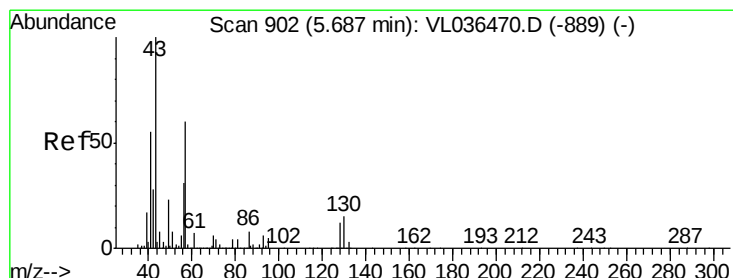
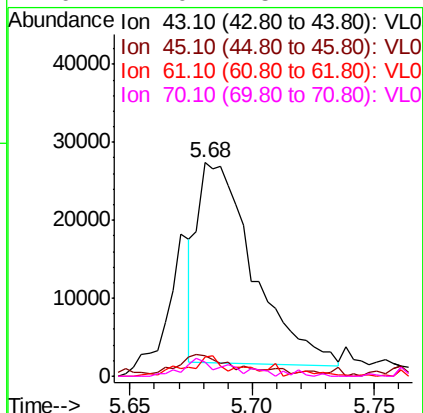
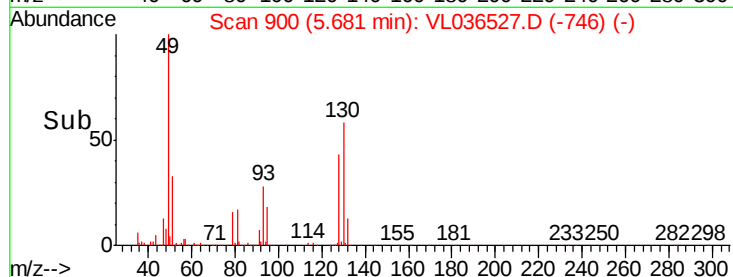
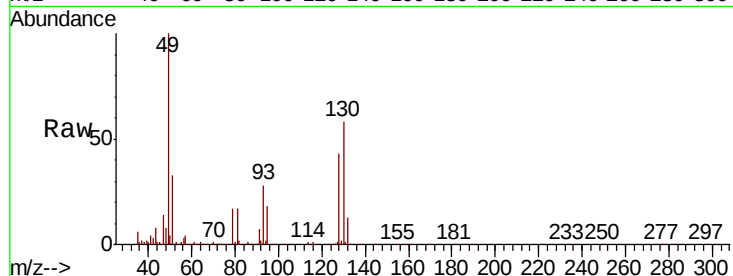




#25
Ethyl Acetate
Concen: 0.135 ppbv
RT: 5.68 min Scan# 900
Delta R.T. -0.00 min
Lab File: VL036527.D
Acq: 26 Mar 2021 23:49

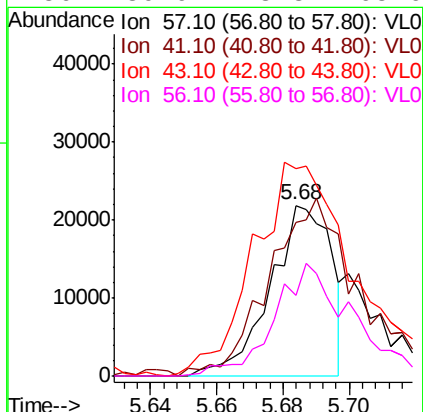
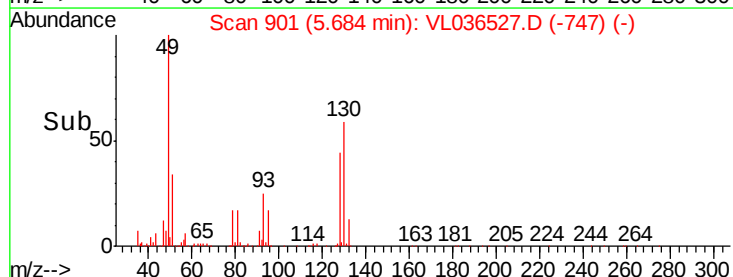
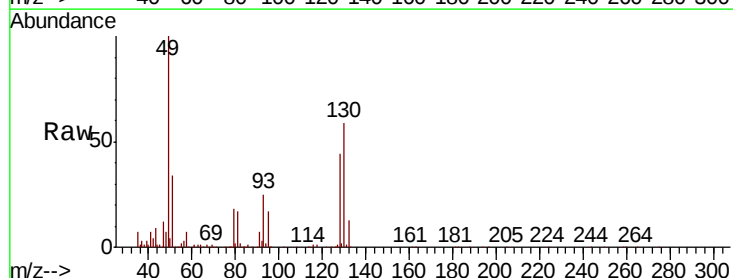
Instrument :
MSVOA_L
ClientSampled :

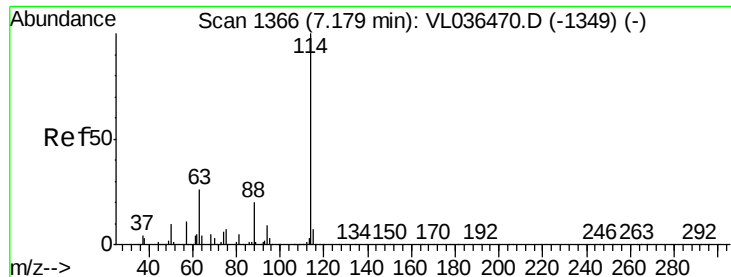
Tot Ion:	43	Resp:	41043
Ion	Ratio	Lower	Upper
43	100		
45	13.5	7.9	11.9#
61	11.5	7.4	11.2#
70	7.0	5.1	7.7



#26
Hexane
Concen: 0.199 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.00 min
Lab File: VL036527.D
Acq: 26 Mar 2021 23:49

Tgt Ion:	57	Resp:	28034
Ion	Ratio	Lower	Upper
57	100		
41	164.8	77.2	115.8#
43	233.0	173.8	260.6
56	89.9	43.8	65.6#

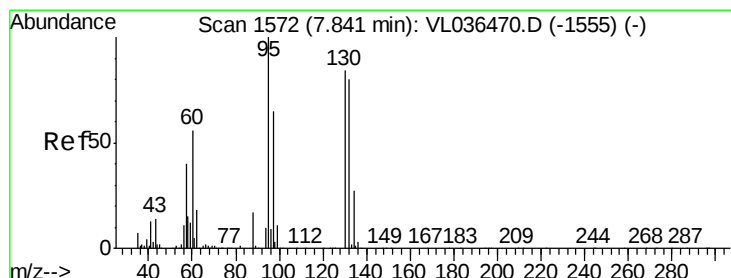
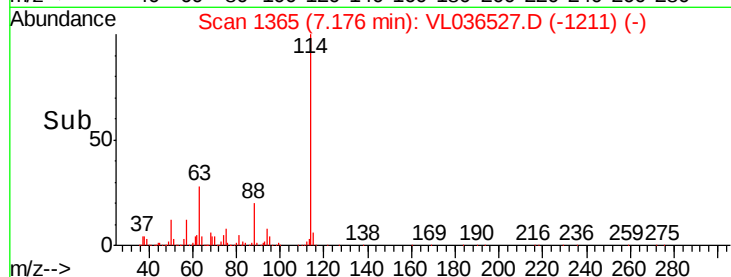
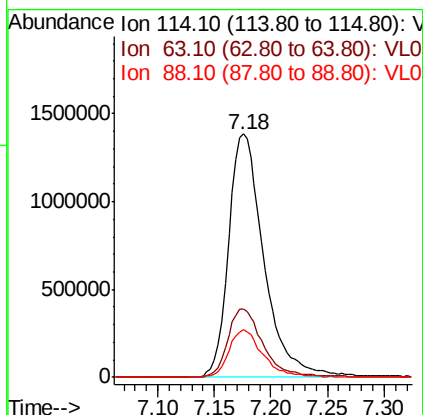
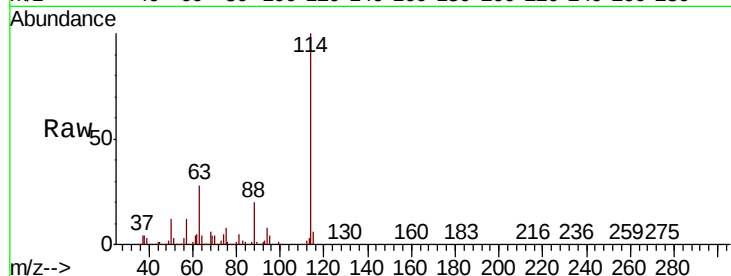




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. -0.00 min
 Lab File: VL036527.D
 Acq: 26 Mar 2021 23:49

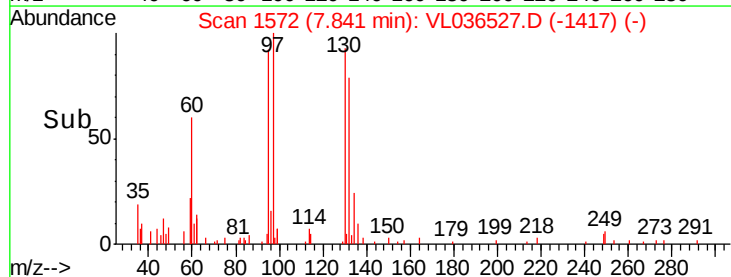
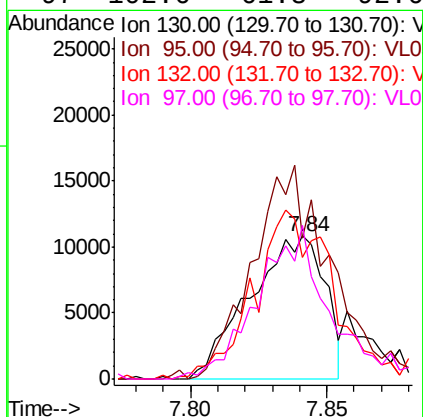
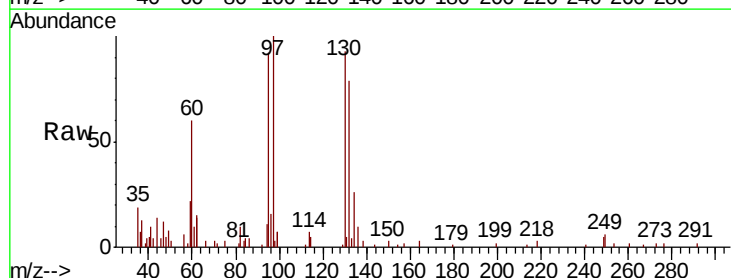
Instrument :
 MSVOA_L
 ClientSampleId :

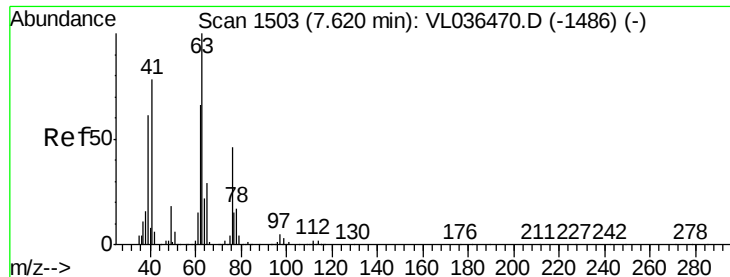
Tot Ion:114 Resp: 3006274
 Ion Ratio Lower Upper
 114 100
 63 28.6 22.4 33.6
 88 19.4 15.4 23.0



#38
 Trichloroethene
 Concen: 0.192 ppbv
 RT: 7.84 min Scan# 1572
 Delta R.T. -0.00 min
 Lab File: VL036527.D
 Acq: 26 Mar 2021 23:49

Tgt Ion:130 Resp: 20765
 Ion Ratio Lower Upper
 130 100
 95 98.4 95.7 143.5
 132 83.2 76.2 114.4
 97 102.6 61.8 92.6#





#39

1,2-Dichloropropane

Concen: 7.506 ppbv

RT: 7.18 min Scan# 1365

Delta R.T. -0.44 min

Lab File: VL036527.D

Acq: 26 Mar 2021 23:49

Instrument :

MSVOA_L

ClientSampled :

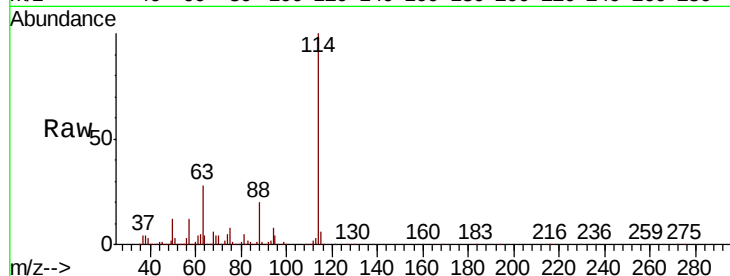
Tot Ion: 63 Resp: 844144

Ion Ratio Lower Upper

63 100

41 0.1 62.4 93.6#

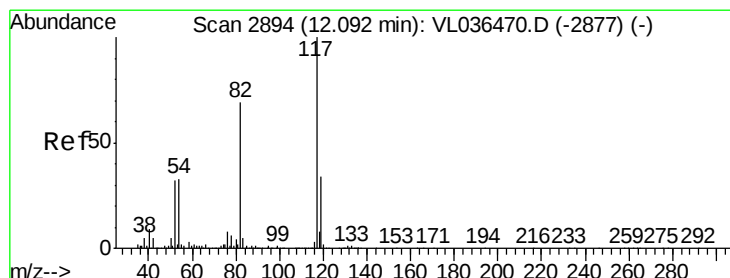
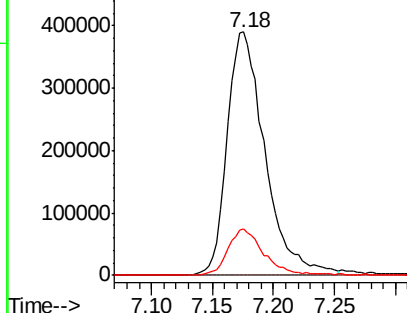
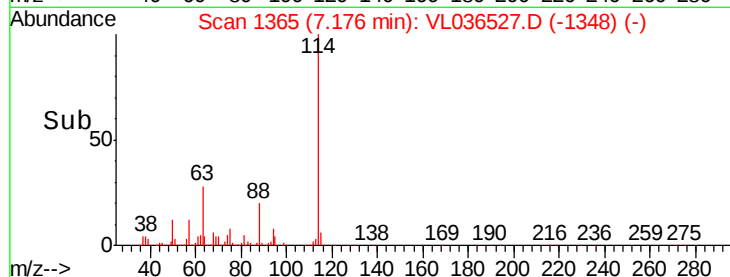
62 19.2 52.8 79.2#



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



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2893

Delta R.T. -0.00 min

Lab File: VL036527.D

Acq: 26 Mar 2021 23:49

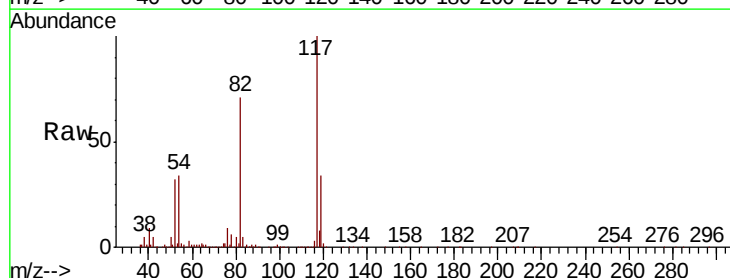
Tgt Ion: 117 Resp: 2722676

Ion Ratio Lower Upper

117 100

82 71.6 57.4 86.0

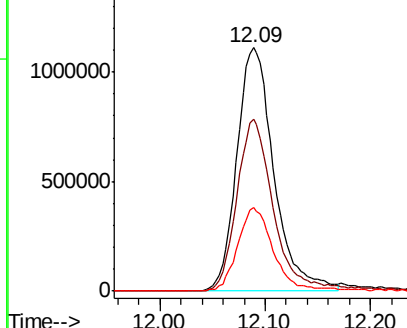
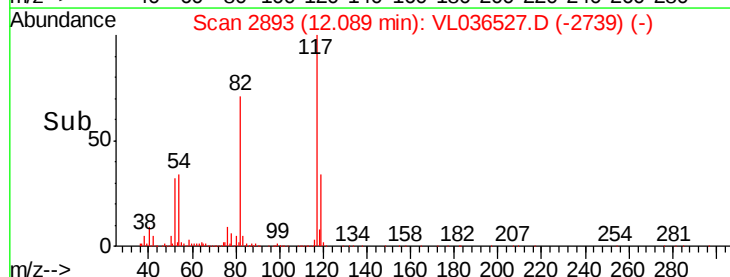
119 33.8 47.4 71.0#

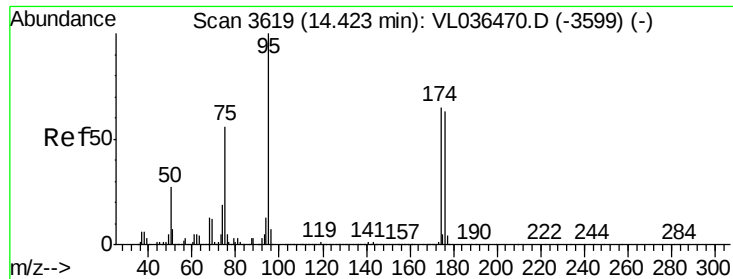


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 9.482 ppbv

RT: 14.42 min Scan# 3619

Delta R.T. -0.00 min

Lab File: VL036527.D

Acq: 26 Mar 2021 23:49

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 95 Resp: 2057609

Ion Ratio Lower Upper

95 100

174 66.5 51.0 76.6

175 4.9 3.9 5.9

