

Data File : VL037169.D
Acq On : 16 Jun 2021 12:33
Operator : SY/AP
Sample : VSTDIC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

Quant Time: Jun 16 13:52:42 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL061621AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jun 16 11:33:05 2021
QLast Update : Wed Jun 16 11:33:05 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1429408	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	4274909	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	3731766	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2776366	10.10	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.00%

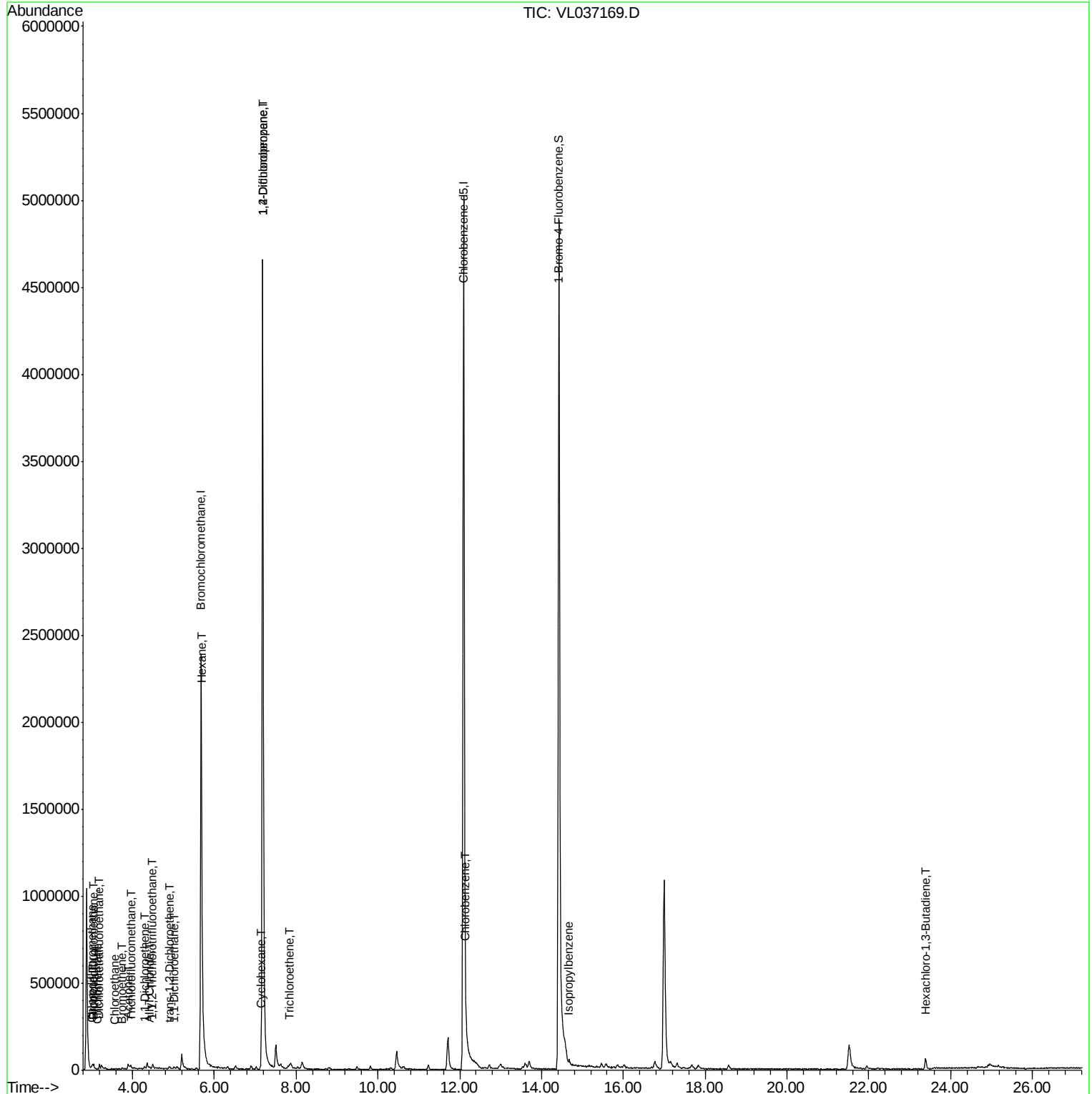
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.05	85	7775	0.034	ppbv #	73
3) Chlorodifluoromethane	2.99	51	14630	0.055	ppbv	98
4) Chloromethane	3.15	50	2121	0.023	ppbv	95
7) Chloroethane	3.56	64	780	0.023	ppbv #	42
8) Dichlorotetrafluoroethane	3.19	85	12504	0.051	ppbv	97
9) Propene	3.02	41	10070	0.114	ppbv	87
11) Trichlorofluoromethane	3.96	101	10561	0.041	ppbv	84
12) 1,1,2-Trichlorotrifluoroet	4.49	101	8377	0.047	ppbv	88
14) Bromoethene	3.74	108	2737	0.036	ppbv #	77
15) Acetone	3.89	43	25478	0.149	ppbv #	45
18) 1,1-Dichloroethene	4.29	96	1886	0.024	ppbv #	80
21) Allyl Chloride	4.42	41	3374	0.030	ppbv #	1
22) trans-1,2-Dichloroethene	4.90	96	3376	0.043	ppbv	82
24) 1,1-Dichloroethane	5.01	63	4579	0.025	ppbv #	89
26) Hexane	5.69	57	6152	0.037	ppbv #	58
30) Cyclohexane	7.14	84	3399	0.023	ppbv #	1
38) Trichloroethene	7.84	130	3031	0.021	ppbv #	49
39) 1,2-Dichloropropane	7.18	63	1019077	7.869	ppbv #	23
57) Chlorobenzene	12.15	112	9057	0.030	ppbv #	66
62) Isopropylbenzene	14.68	105	17810	0.030	ppbv	97
78) Hexachloro-1,3-Butadiene	23.38	225	5605	0.028	ppbv #	1

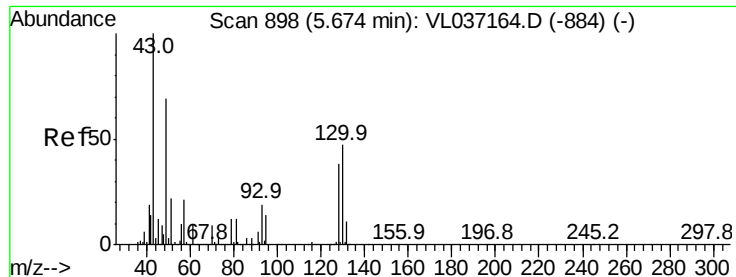
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

ALS Vial : 1 Sample Multiplier: 1

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 898

Delta R.T. 0.00 min

Lab File: VL037169.D

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VSTDIC0.03

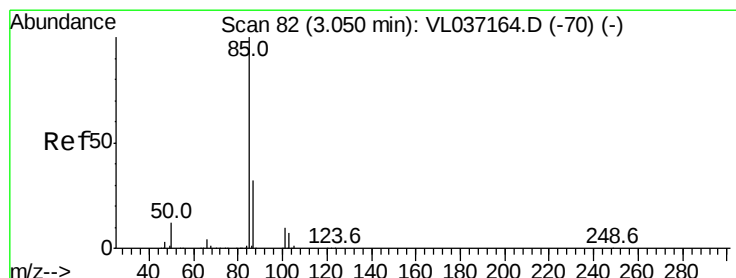
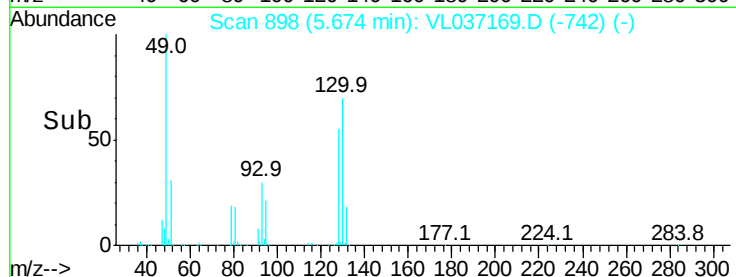
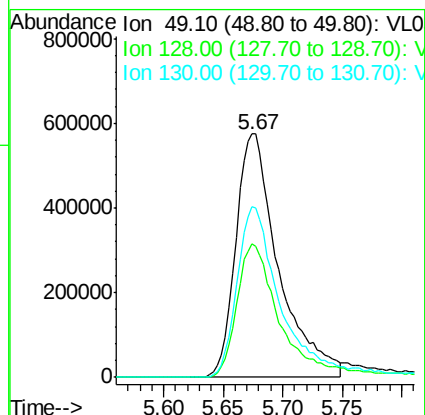
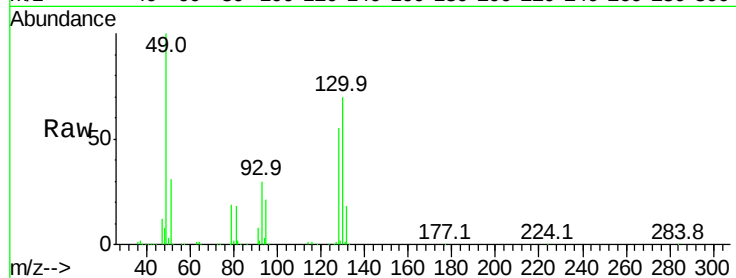
Tgt Ion: 49 Resp: 1429408

Ion Ratio Lower Upper

49 100

128 57.7 29.3 88.0

130 75.3 35.9 107.8



#2

Dichlorodifluoromethane

Concen: 0.034 ppbv

RT: 3.05 min Scan# 81

Delta R.T. -0.00 min

Lab File: VL037169.D

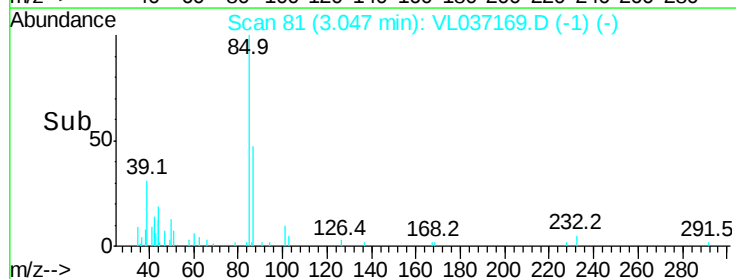
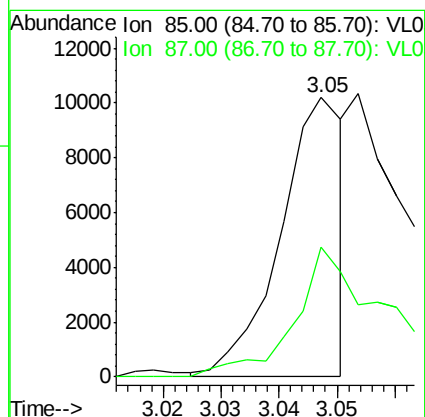
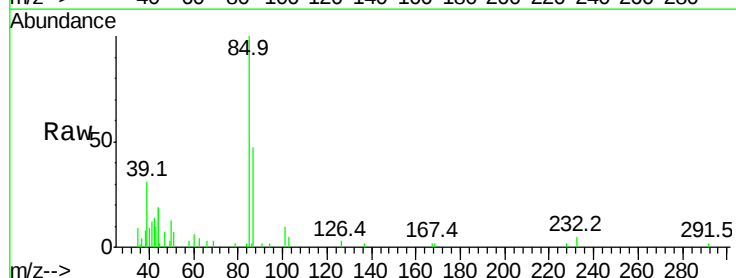
Acq: 16 Jun 2021 12:33

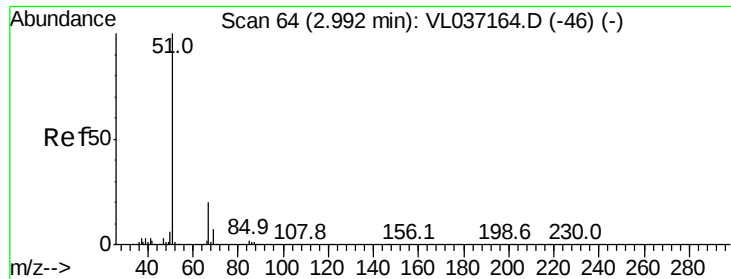
Tgt Ion: 85 Resp: 7775

Ion Ratio Lower Upper

85 100

87 47.4 25.8 38.6#





#3

Chlorodifluoromethane

Concen: 0.055 ppbv

RT: 2.99 min Scan# 63

Delta R.T. -0.00 min

Lab File: VL037169.D

Acq: 16 Jun 2021 12:33

Instrument :

MSVOA_L

ClientSampleId :

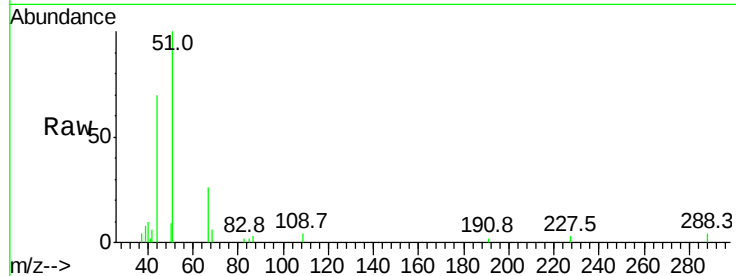
VSTDIC0.03

Tgt Ion: 51 Resp: 14630

Ion Ratio Lower Upper

51 100

67 20.8 15.8 23.6



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

2.99

8000

6000

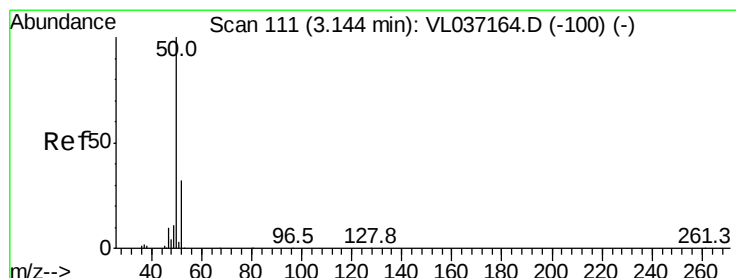
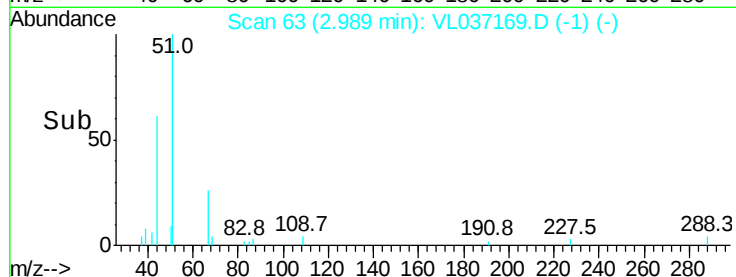
4000

2000

0

Time-->

2.90 3.00 3.10



#4

Chloromethane

Concen: 0.023 ppbv

RT: 3.15 min Scan# 112

Delta R.T. 0.00 min

Lab File: VL037169.D

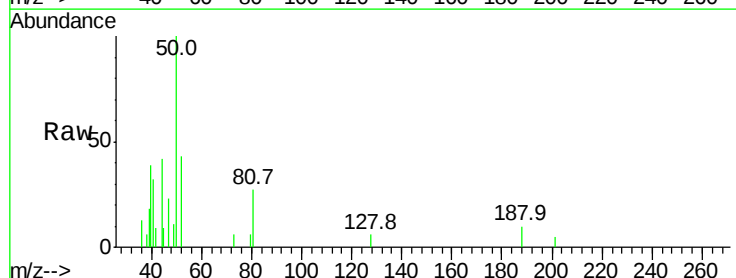
Acq: 16 Jun 2021 12:33

Tgt Ion: 50 Resp: 2121

Ion Ratio Lower Upper

50 100

52 29.3 25.8 38.8



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

3.15

3000

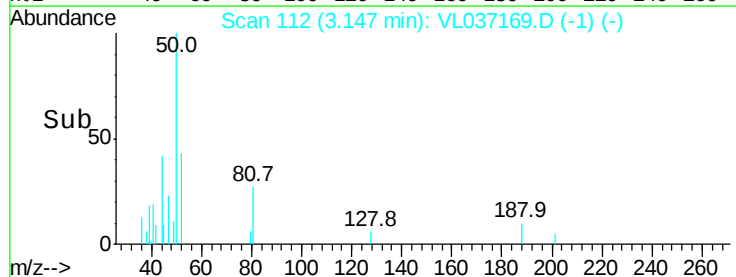
2000

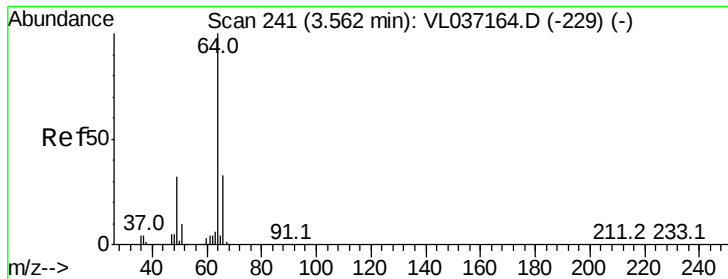
1000

0

Time-->

3.13 3.14 3.15





#7

Chloroethane

Concen: 0.023 ppbv

RT: 3.56 min Scan# 241

Delta R.T. 0.00 min

Lab File: VL037169.D

Acq: 16 Jun 2021 12:33

Instrument :

MSVOA_L

ClientSampleId :

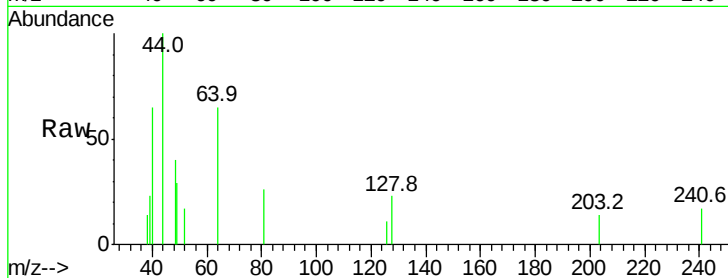
VSTDIC0.03

Tgt Ion: 64 Resp: 780

Ion Ratio Lower Upper

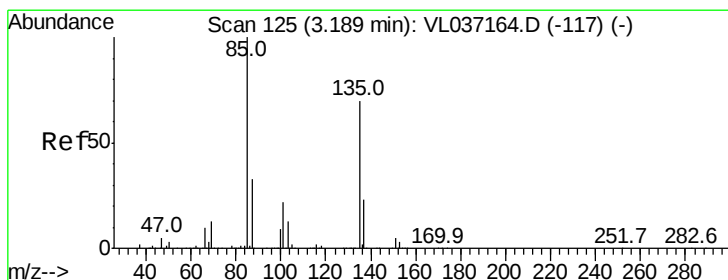
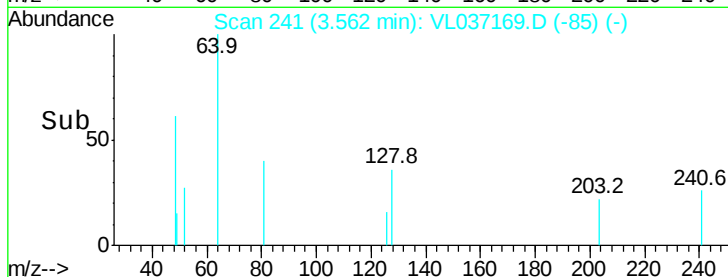
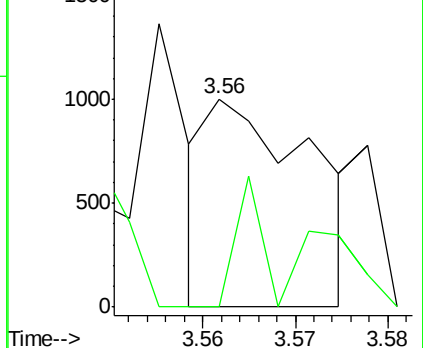
64 100

66 0.0 26.2 39.4#



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.051 ppbv

RT: 3.19 min Scan# 125

Delta R.T. 0.00 min

Lab File: VL037169.D

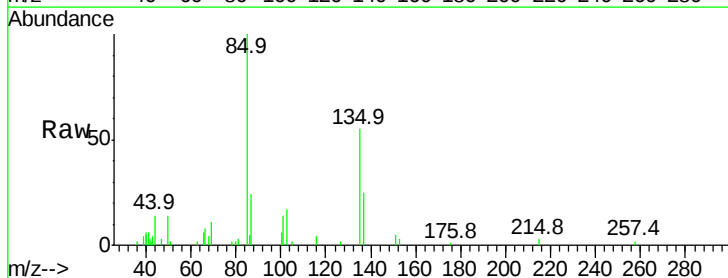
Acq: 16 Jun 2021 12:33

Tgt Ion: 85 Resp: 12504

Ion Ratio Lower Upper

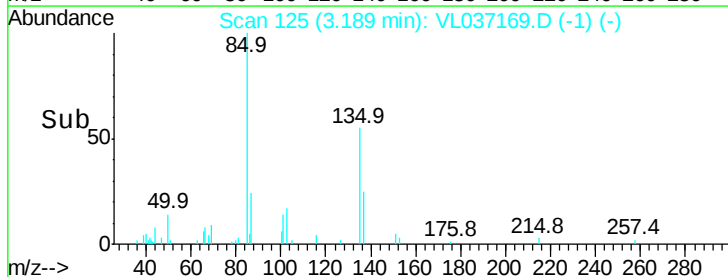
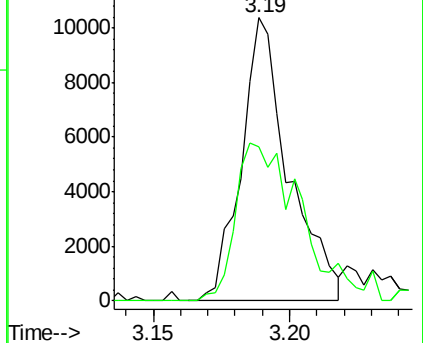
85 100

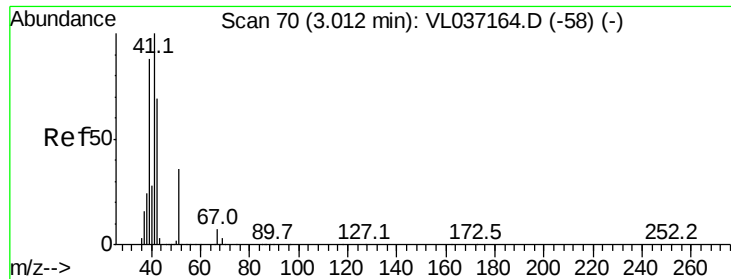
135 78.0 60.4 90.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.114 ppbv

RT: 3.02 min Scan# 73

Delta R.T. 0.01 min

Lab File: VL037169.D

Acq: 16 Jun 2021 12:33

Instrument :

MSVOA_L

ClientSampleId :

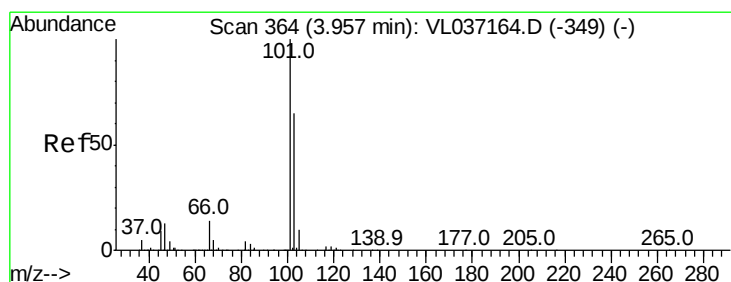
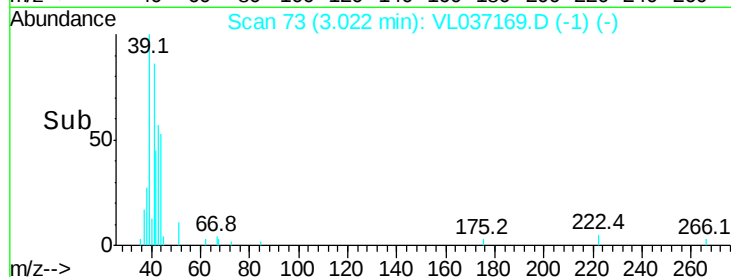
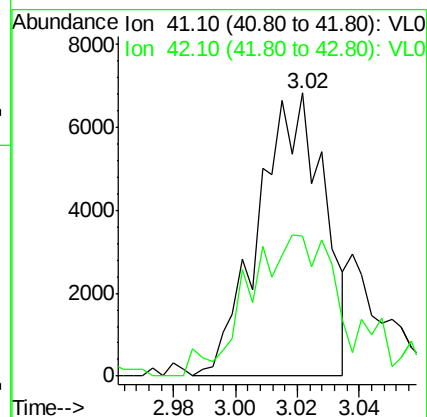
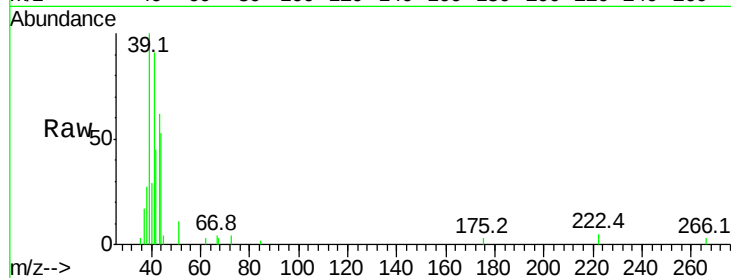
VSTDIC0.03

Tgt Ion: 41 Resp: 10070

Ion Ratio Lower Upper

41 100

42 78.5 54.5 81.7



#11

Trichlorofluoromethane

Concen: 0.041 ppbv

RT: 3.96 min Scan# 364

Delta R.T. 0.00 min

Lab File: VL037169.D

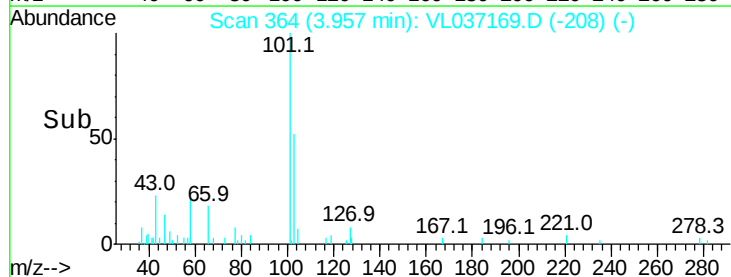
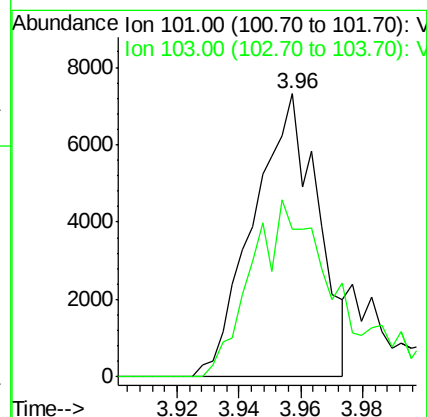
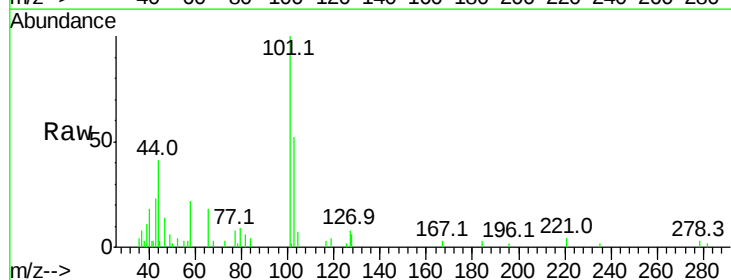
Acq: 16 Jun 2021 12:33

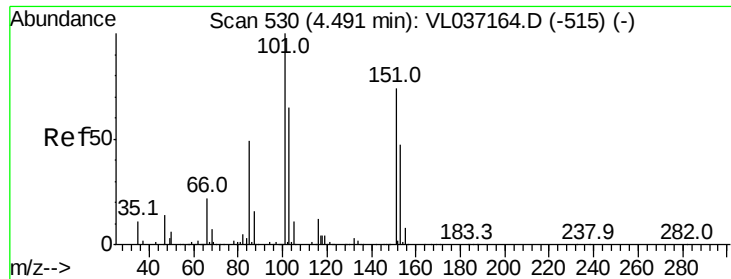
Tgt Ion: 101 Resp: 10561

Ion Ratio Lower Upper

101 100

103 52.3 52.2 78.4





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.047 ppbv

RT: 4.49 min Scan# 531

Delta R.T. 0.00 min

Lab File: VL037169.D

Acq: 16 Jun 2021 12:33

Instrument :

MSVOA_L

ClientSampleId :

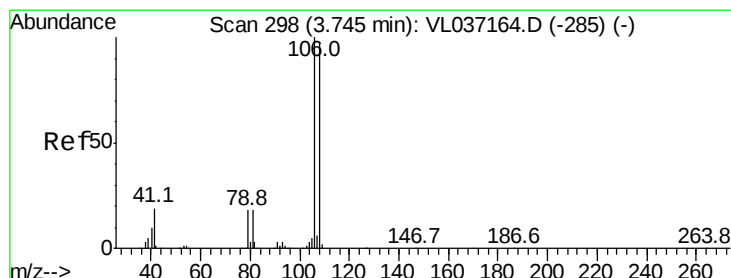
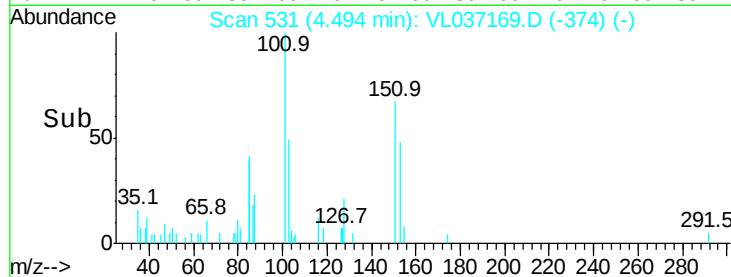
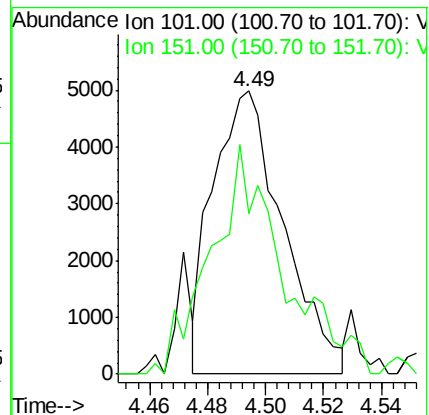
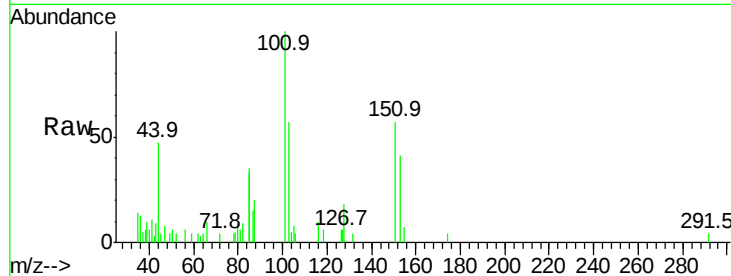
VSTDIC0.03

Tgt Ion:101 Resp: 8377

Ion Ratio Lower Upper

101 100

151 84.3 59.1 88.7



#14

Bromoethene

Concen: 0.036 ppbv

RT: 3.74 min Scan# 297

Delta R.T. -0.00 min

Lab File: VL037169.D

Acq: 16 Jun 2021 12:33

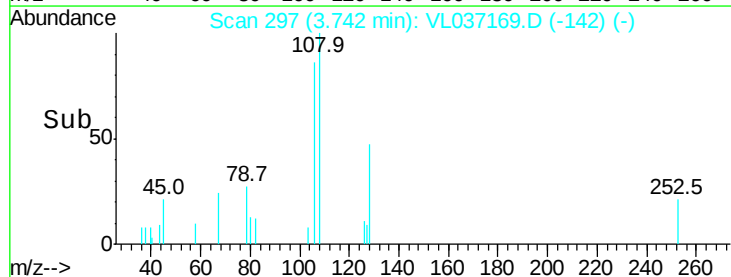
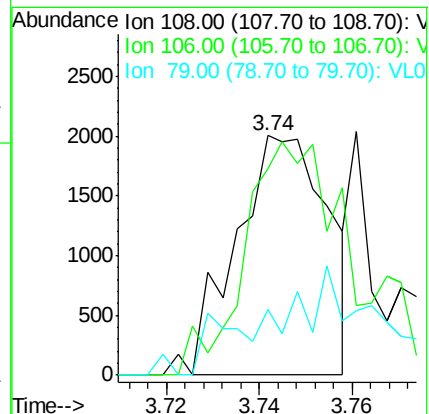
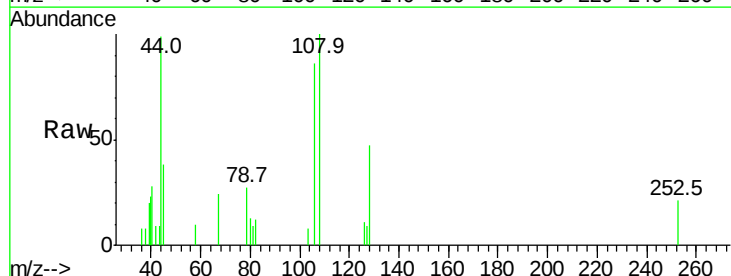
Tgt Ion:108 Resp: 2737

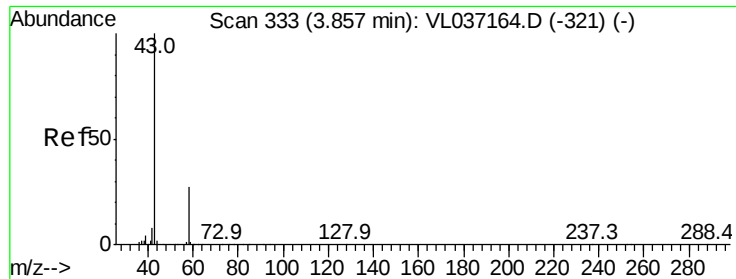
Ion Ratio Lower Upper

108 100

106 128.9 86.8 130.2

79 0.0 15.6 23.4#





#15

Acetone

Concen: 0.149 ppbv

RT: 3.89 min Scan# 342

Delta R.T. 0.03 min

Lab File: VL037169.D

Acq: 16 Jun 2021 12:33

Instrument :

MSVOA_L

ClientSampleId :

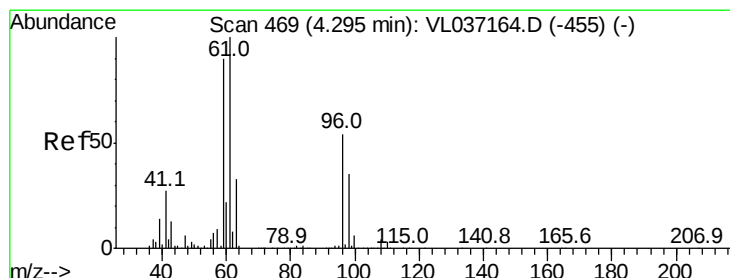
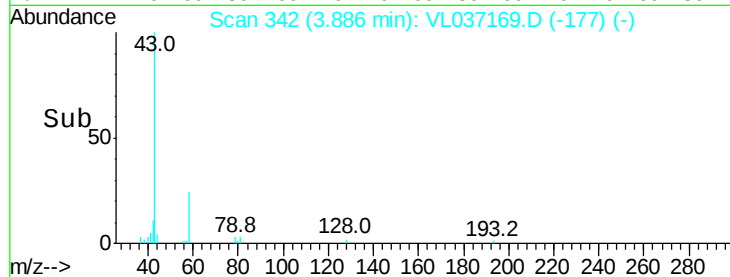
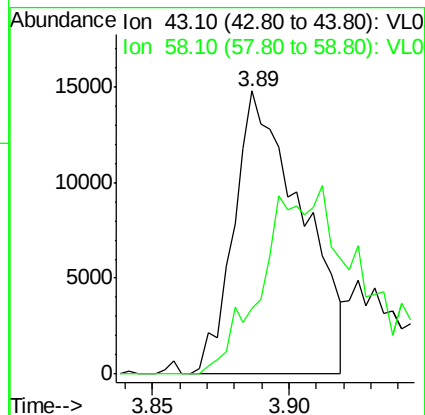
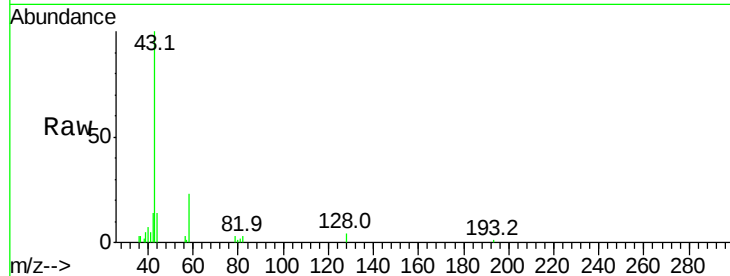
VSTDIC0.03

Tgt Ion: 43 Resp: 25478

Ion Ratio Lower Upper

43 100

58 0.0 23.7 35.5#



#18

1,1-Dichloroethene

Concen: 0.024 ppbv

RT: 4.29 min Scan# 469

Delta R.T. 0.00 min

Lab File: VL037169.D

Acq: 16 Jun 2021 12:33

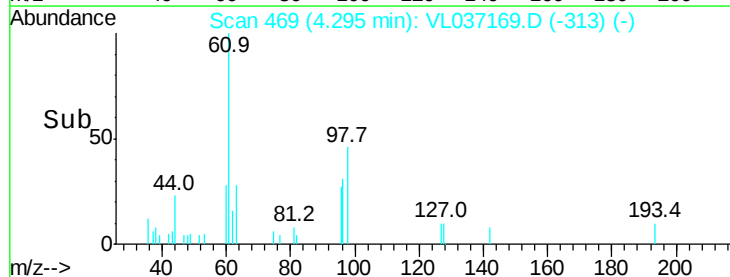
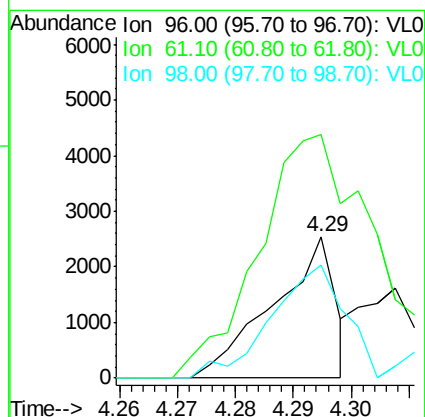
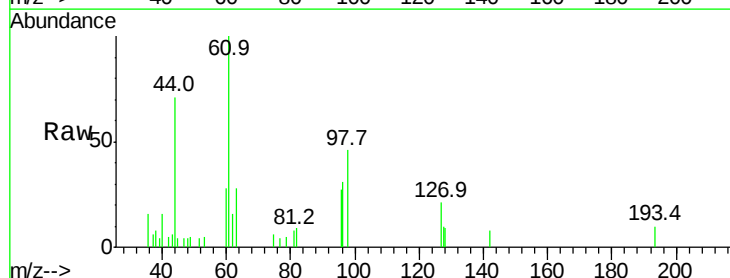
Tgt Ion: 96 Resp: 1886

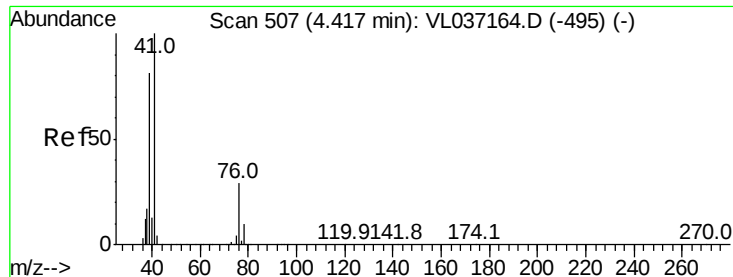
Ion Ratio Lower Upper

96 100

61 156.7 148.6 222.8

98 79.4 51.9 77.9#

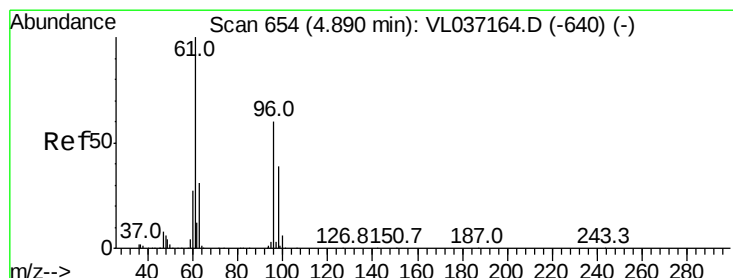
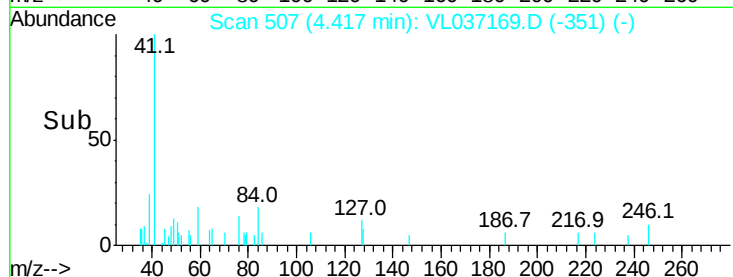
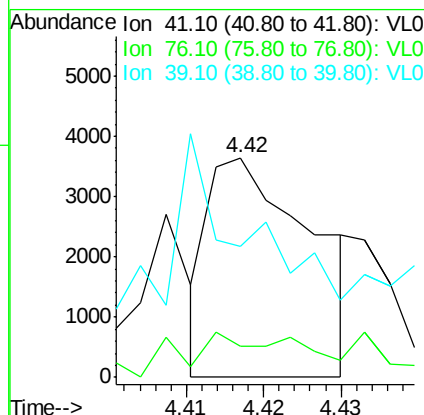
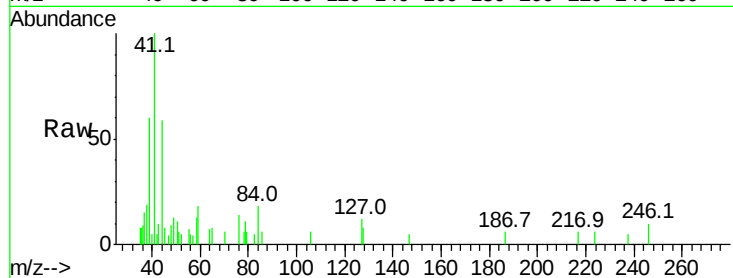




#21
 Allyl Chloride
 Concen: 0.030 ppbv
 RT: 4.42 min Scan# 507
 Delta R.T. 0.00 min
 Lab File: VL037169.D
 Acq: 16 Jun 2021 12:33

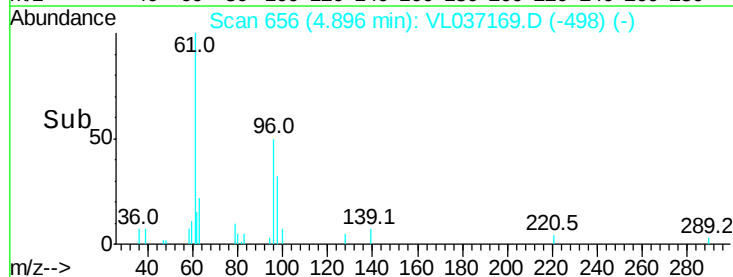
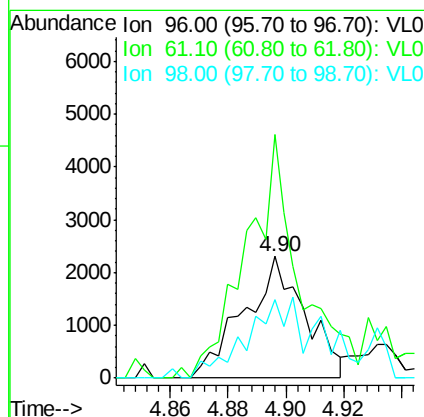
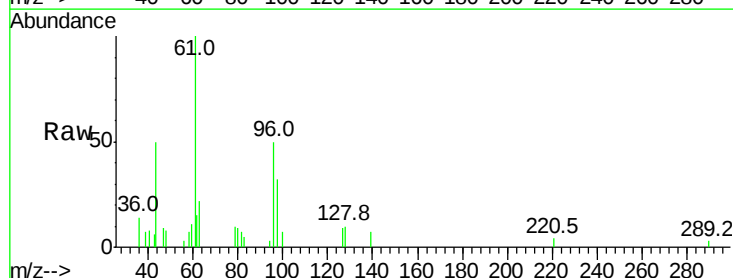
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

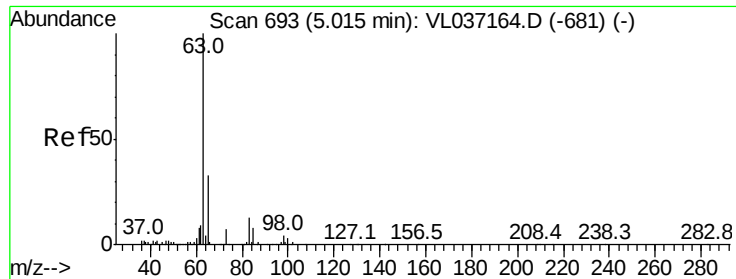
Tgt Ion: 41 Resp: 3374
 Ion Ratio Lower Upper
 41 100
 76 31.3 24.6 37.0
 39 210.4 65.4 98.0#



#22
 trans-1,2-Dichloroethene
 Concen: 0.043 ppbv
 RT: 4.90 min Scan# 656
 Delta R.T. 0.01 min
 Lab File: VL037169.D
 Acq: 16 Jun 2021 12:33

Tgt Ion: 96 Resp: 3376
 Ion Ratio Lower Upper
 96 100
 61 200.4 133.9 200.9
 98 64.6 52.9 79.3





#24

1,1-Dichloroethane

Concen: 0.025 ppbv

RT: 5.01 min Scan# 691

Delta R.T. -0.01 min

Lab File: VL037169.D

Acq: 16 Jun 2021 12:33

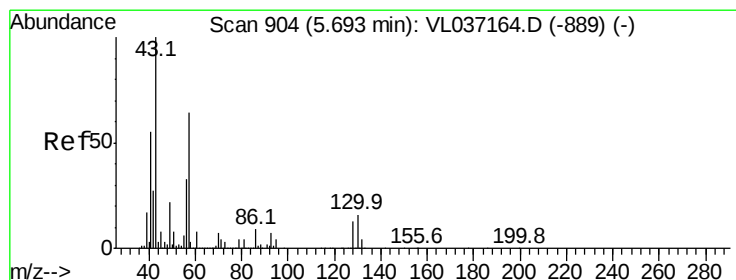
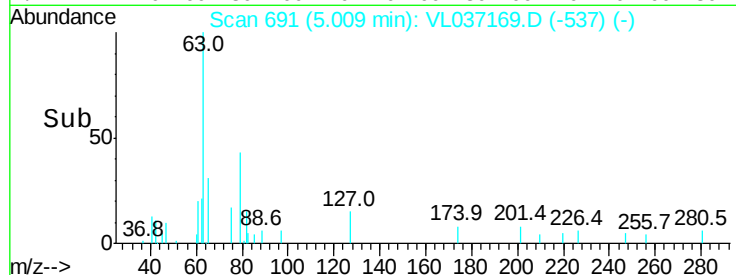
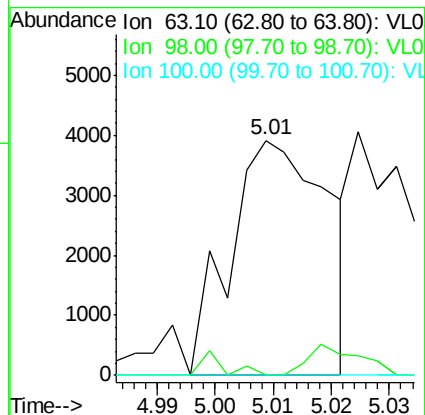
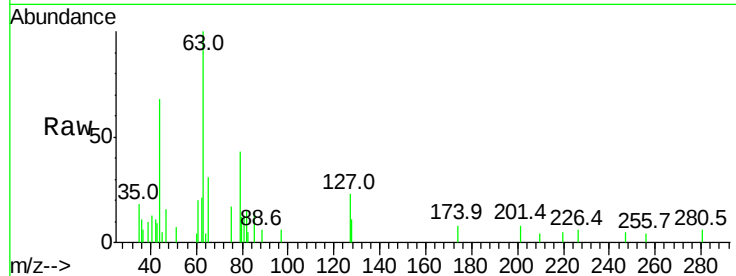
Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

Tgt Ion:	63	Resp:	4579
Ion	Ratio	Lower	Upper
63	100		
98	0.0	2.1	6.5#
100	0.0	1.4	4.0#



#26

Hexane

Concen: 0.037 ppbv

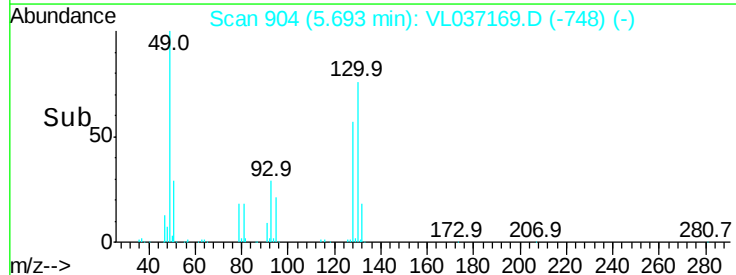
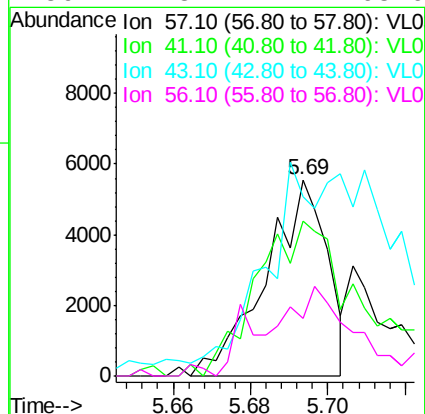
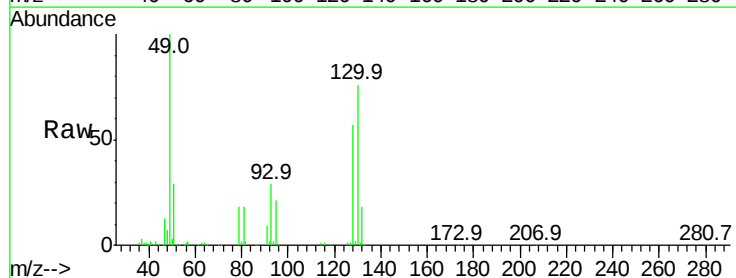
RT: 5.69 min Scan# 904

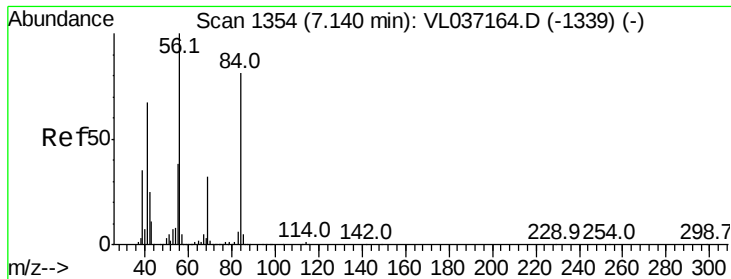
Delta R.T. 0.00 min

Lab File: VL037169.D

Acq: 16 Jun 2021 12:33

Tgt Ion:	57	Resp:	6152
Ion	Ratio	Lower	Upper
57	100		
41	160.5	73.5	110.3#
43	264.9	170.7	256.1#
56	72.8	42.4	63.6#

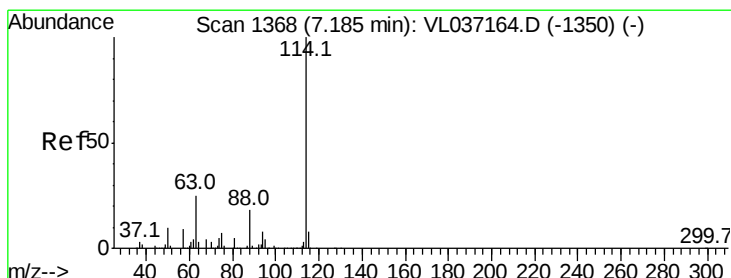
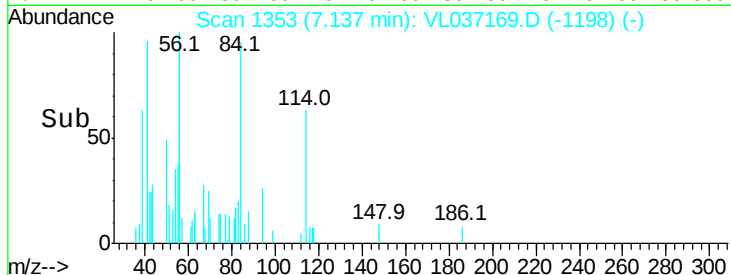
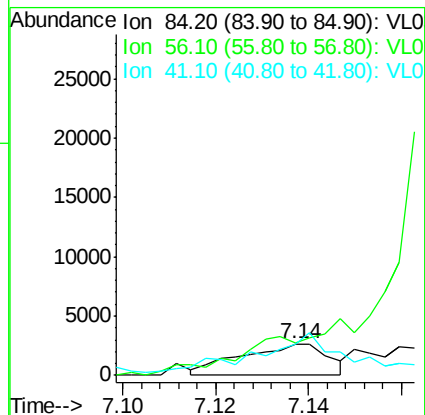
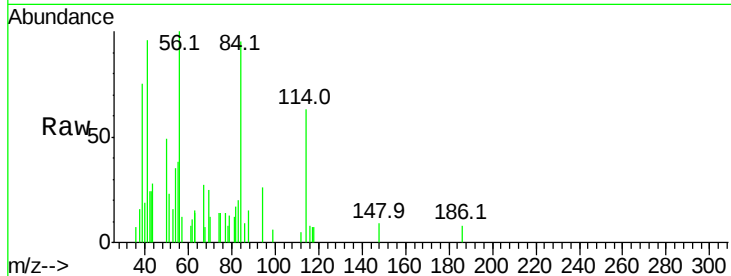




#30
Cyclohexane
Concen: 0.023 ppbv
RT: 7.14 min Scan# 1353
Delta R.T. -0.00 min
Lab File: VL037169.D
Acq: 16 Jun 2021 12:33

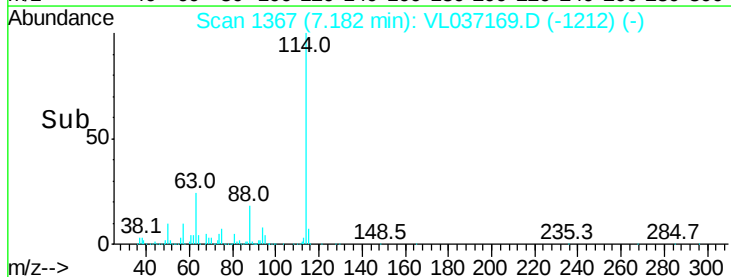
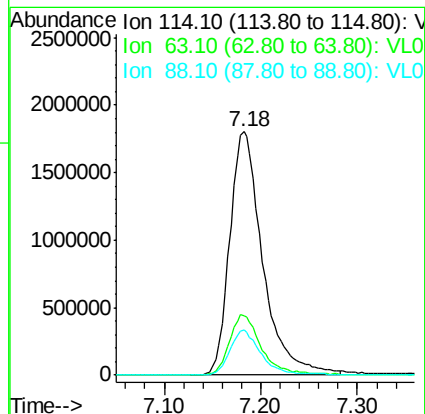
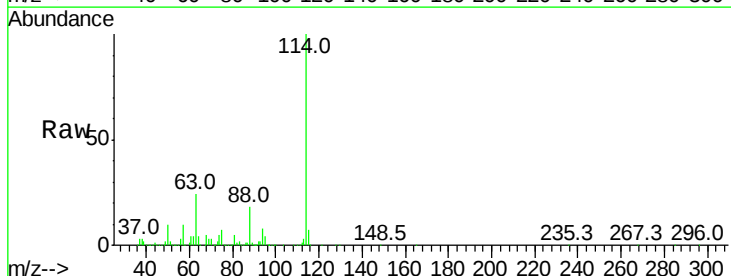
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

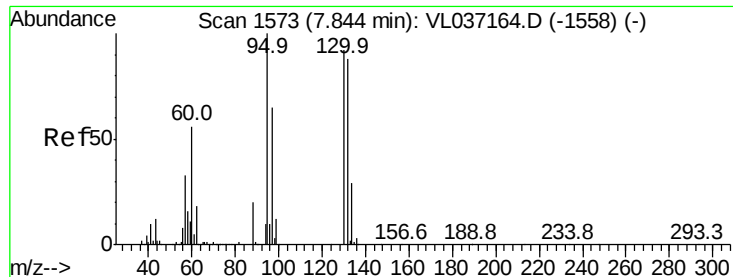
Tgt Ion: 84 Resp: 3399
Ion Ratio Lower Upper
84 100
56 0.0 107.7 161.5#
41 178.5 69.0 103.6#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1367
Delta R.T. -0.00 min
Lab File: VL037169.D
Acq: 16 Jun 2021 12:33

Tgt Ion: 114 Resp: 4274909
Ion Ratio Lower Upper
114 100
63 24.7 19.6 29.4
88 17.9 14.2 21.2





#38

Trichloroethene

Concen: 0.021 ppbv

RT: 7.84 min Scan# 1571

Delta R.T. -0.01 min

Lab File: VL037169.D

Acq: 16 Jun 2021 12:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

Tgt Ion:130 Resp: 3031

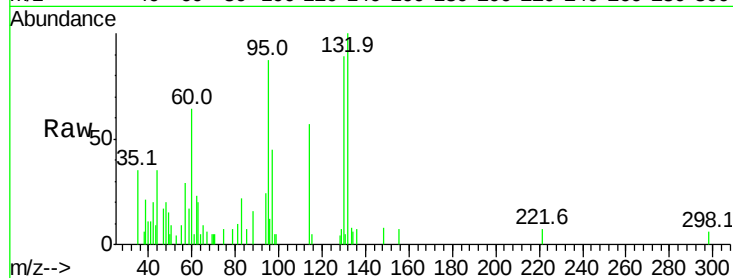
Ion Ratio Lower Upper

130 100

95 84.6 86.6 129.8#

132 164.6 76.6 114.8#

97 13.6 56.1 84.1#

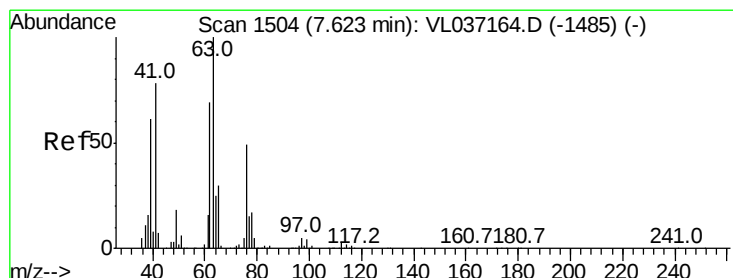
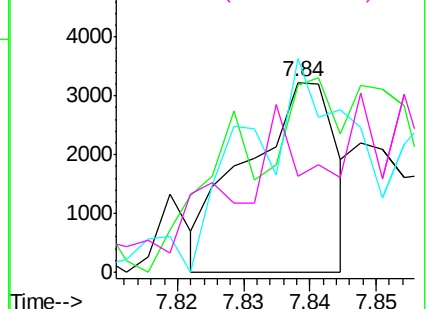
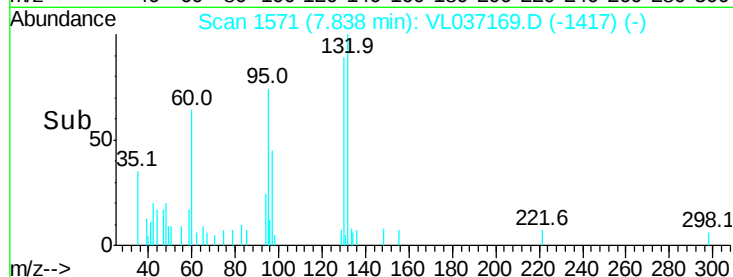


Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#39

1,2-Dichloropropane

Concen: 7.869 ppbv

RT: 7.18 min Scan# 1366

Delta R.T. -0.44 min

Lab File: VL037169.D

Acq: 16 Jun 2021 12:33

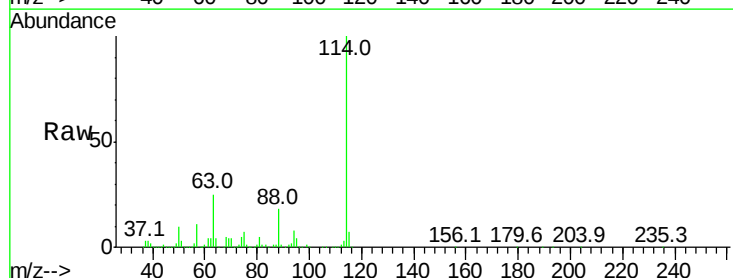
Tgt Ion: 63 Resp: 1019077

Ion Ratio Lower Upper

63 100

41 0.0 62.0 93.0#

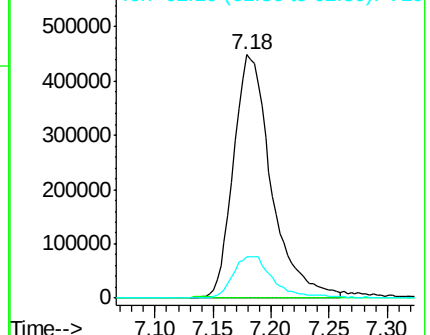
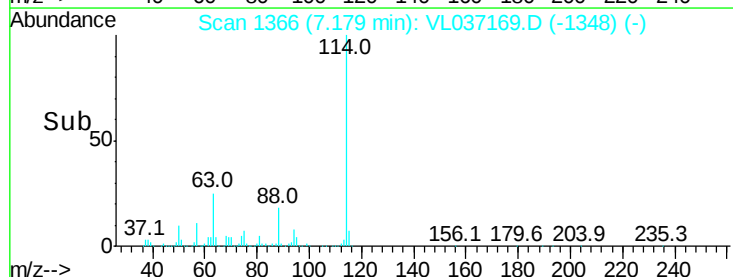
62 17.0 54.9 82.3#

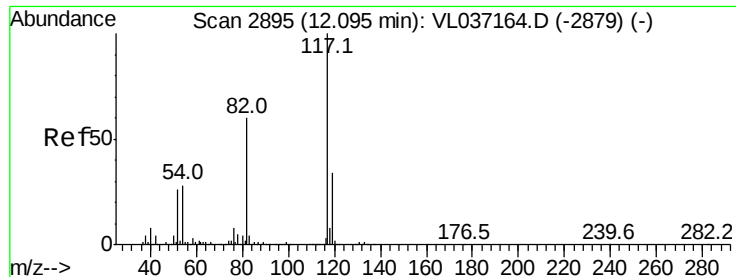


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0

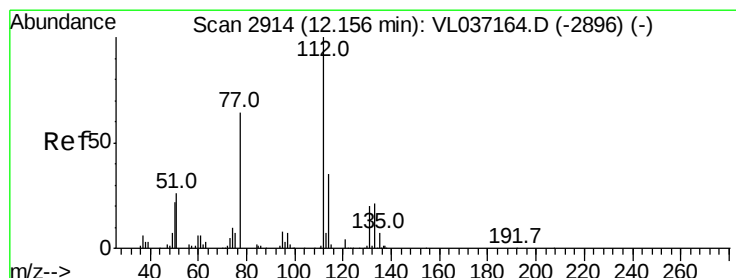
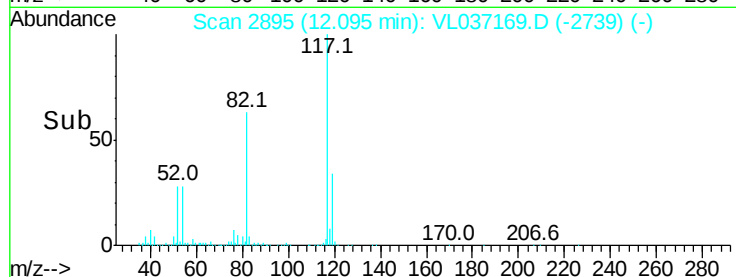
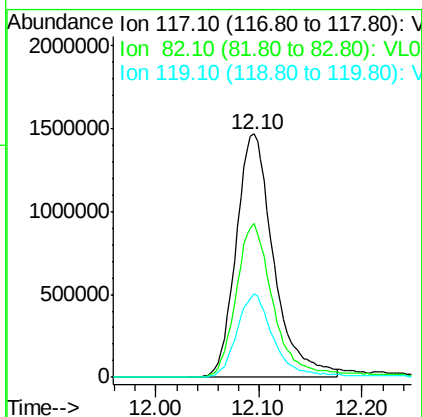
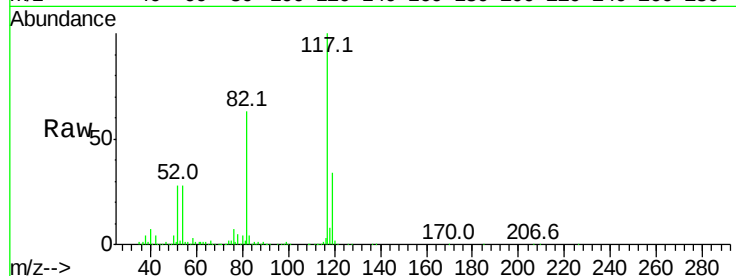




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2895
Delta R.T. 0.00 min
Lab File: VL037169.D
Acq: 16 Jun 2021 12:33

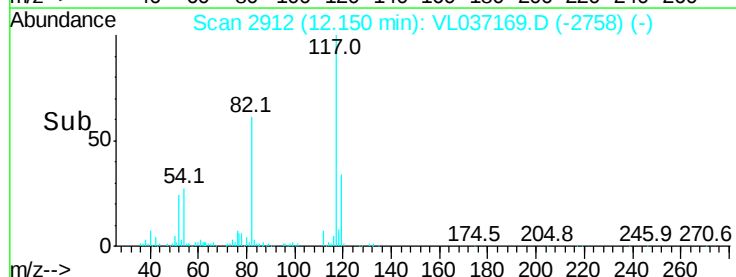
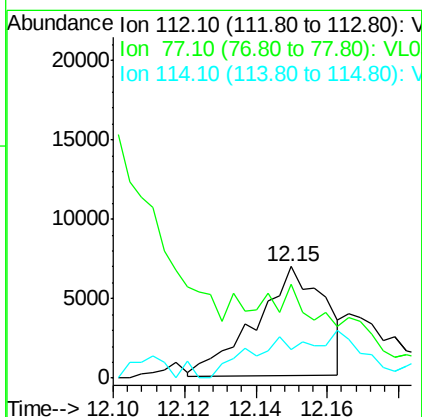
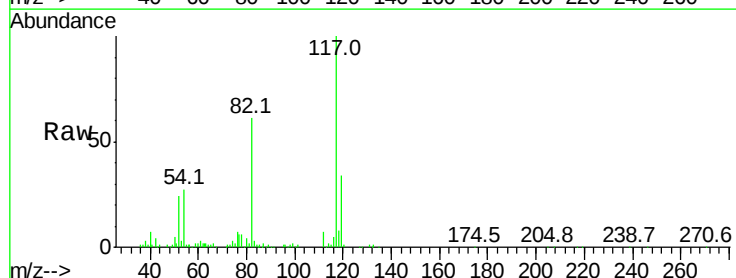
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

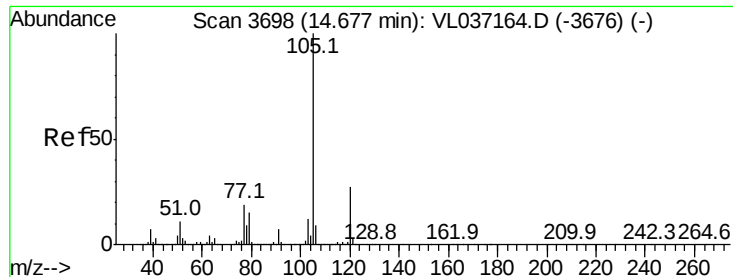
Tgt Ion:117 Resp: 3731766
Ion Ratio Lower Upper
117 100
82 65.4 51.7 77.5
119 35.2 47.6 71.4#



#57
Chlorobenzene
Concen: 0.030 ppbv
RT: 12.15 min Scan# 2912
Delta R.T. -0.01 min
Lab File: VL037169.D
Acq: 16 Jun 2021 12:33

Tgt Ion:112 Resp: 9057
Ion Ratio Lower Upper
112 100
77 40.4 52.2 78.4#
114 11.6 31.1 38.1#





#62

Isopropylbenzene

Concen: 0.030 ppbv

RT: 14.68 min Scan# 3699

Delta R.T. 0.00 min

Lab File: VL037169.D

Acq: 16 Jun 2021 12:33

Instrument :

MSVOA_L

ClientSampleId :

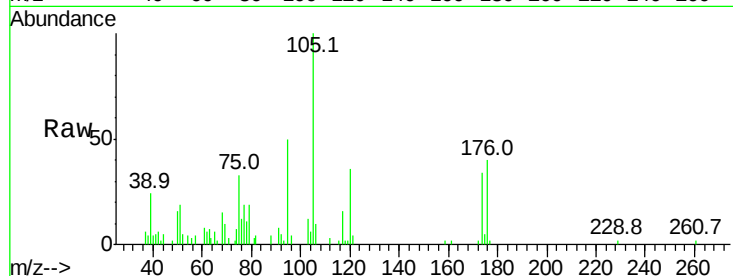
VSTDIC0.03

Tgt Ion: 105 Resp: 17810

Ion Ratio Lower Upper

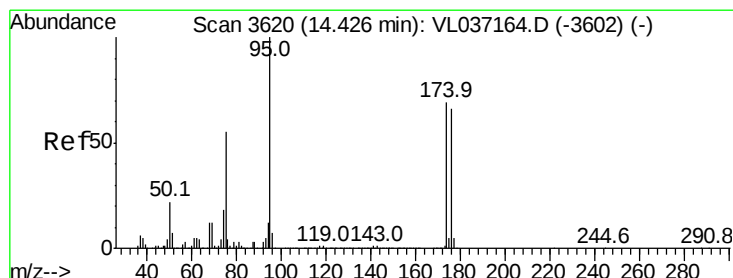
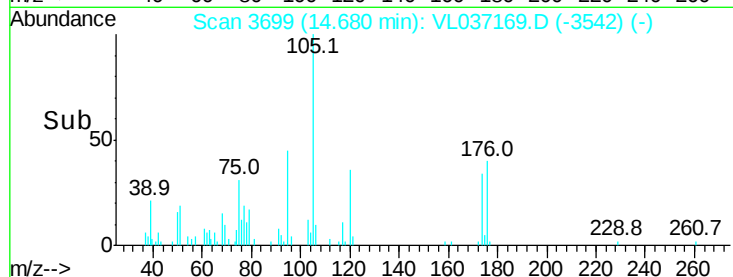
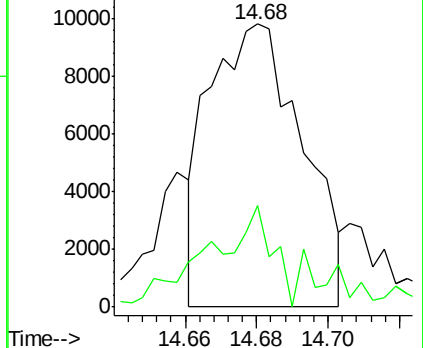
105 100

120 28.8 21.6 32.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.101 ppbv

RT: 14.42 min Scan# 3619

Delta R.T. -0.00 min

Lab File: VL037169.D

Acq: 16 Jun 2021 12:33

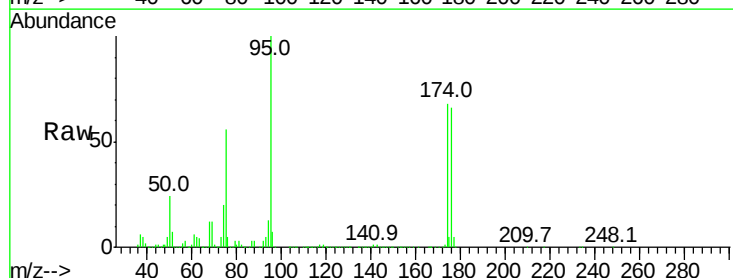
Tgt Ion: 95 Resp: 2776366

Ion Ratio Lower Upper

95 100

174 74.5 57.0 85.4

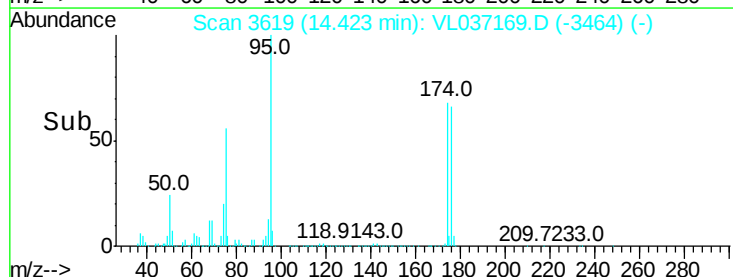
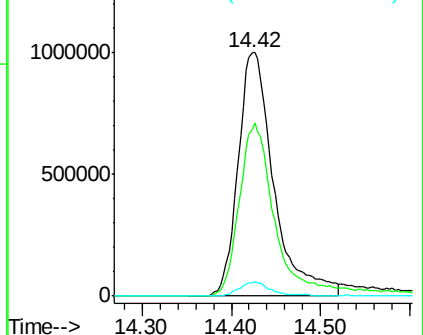
175 5.3 4.4 6.6

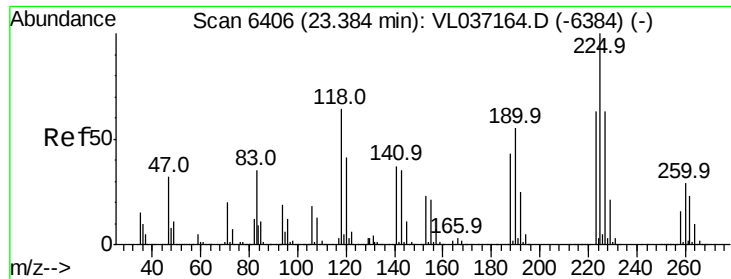


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#78

Hexachloro-1,3-Butadiene

Concen: 0.028 ppbv

RT: 23.38 min Scan# 6405

Delta R.T. -0.00 min

Lab File: VL037169.D

Acq: 16 Jun 2021 12:33

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

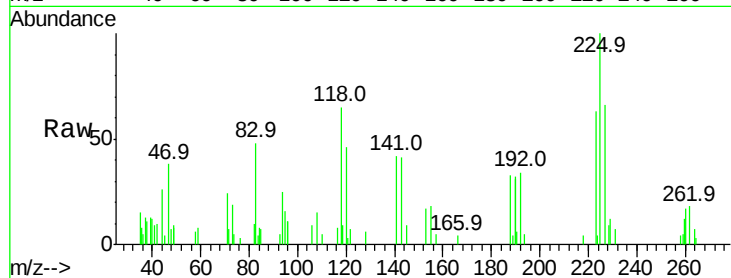
Tgt Ion:225 Resp: 5605

Ion Ratio Lower Upper

225 100

223 0.0 51.8 77.8#

227 158.1 51.4 77.0#



Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V

