

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL092821\
 Data File : VL037704.D
 Acq On : 28 Sep 2021 16:16
 Operator : SY/AP
 Sample : M3896-01DL 2 200X
 Misc : 400mL/MSVOA L
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Sep 29 03:41:14 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep 16 13:42:46 2021
 QLast Update : Thu Sep 16 13:42:46 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1342617	10.00	ppbv	0.03
33) 1,4-Difluorobenzene	7.19	114	4146639	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.10	117	3510607	10.00	ppbv	0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	2375535	9.36	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.60%

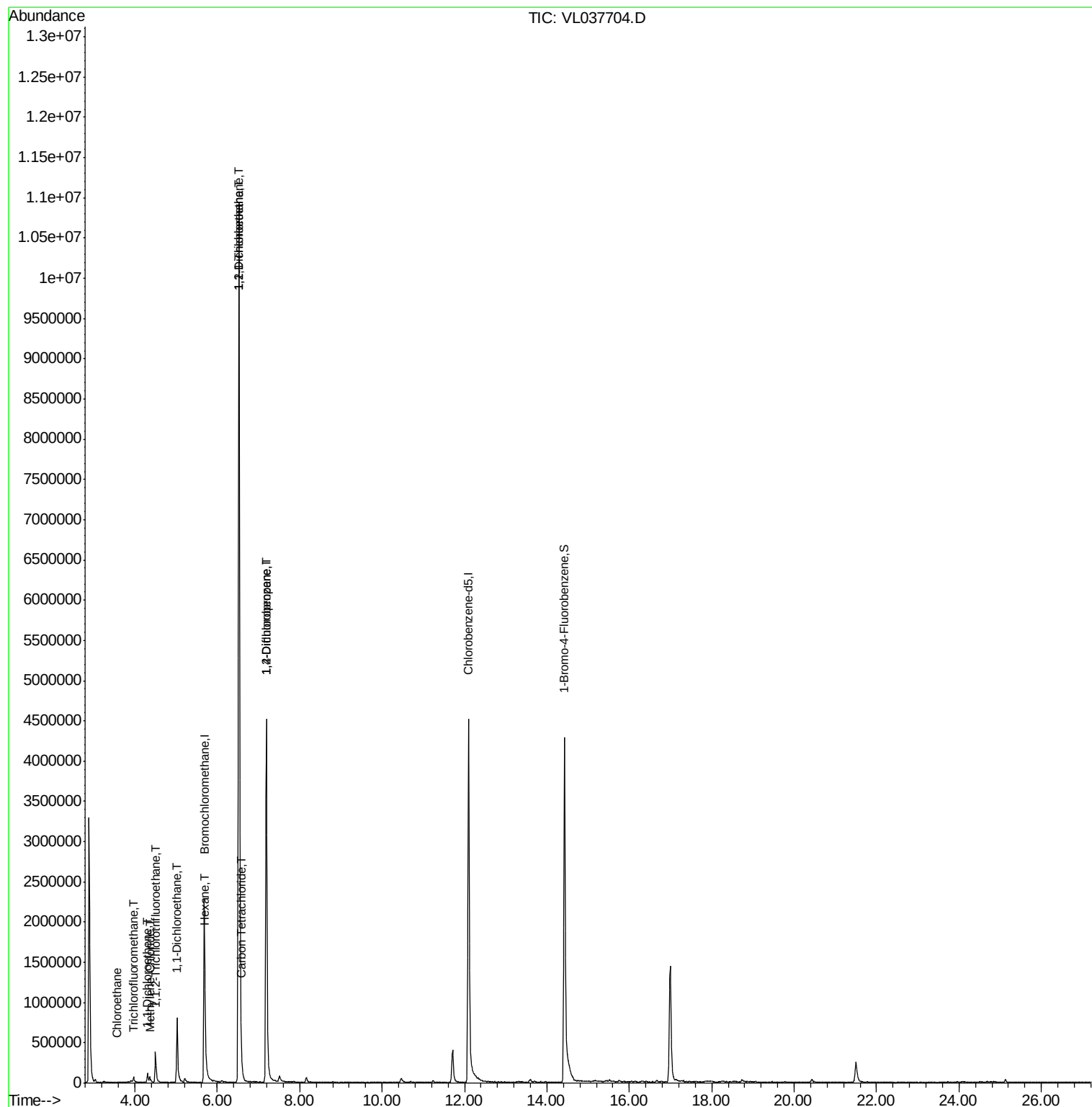
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
7) Chloroethane	3.57	64	1889	0.058	ppbv #	60
11) Trichlorofluoromethane	3.97	101	40148	0.206	ppbv	92
12) 1,1,2-Trichlorotrifluoroet	4.50	101	150256	1.044	ppbv	99
18) 1,1-Dichloroethene	4.30	96	37161	0.554	ppbv	87
20) Methylene Chloride	4.36	84	24320	0.365	ppbv #	70
24) 1,1-Dichloroethane	5.02	63	816260	5.903	ppbv	98
26) Hexane	5.71	57	8663	0.054	ppbv #	41
32) 1,1,1-Trichloroethane	6.52	97	8120668	37.220	ppbv	98
35) Carbon Tetrachloride	6.58	117	17186	0.073	ppbv #	69
37) 1,2-Dichloroethane	6.53	62	578610	3.402	ppbv #	1
39) 1,2-Dichloropropane	7.19	63	960468	7.252	ppbv #	29

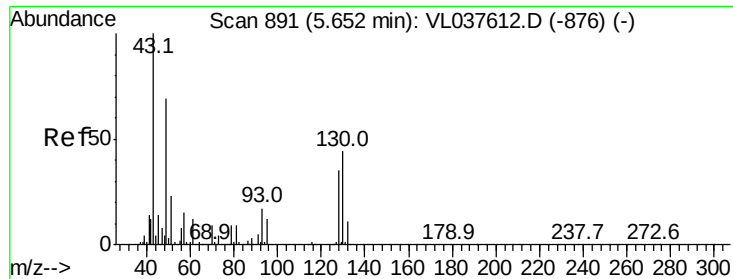
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_L
ClientSampleId :

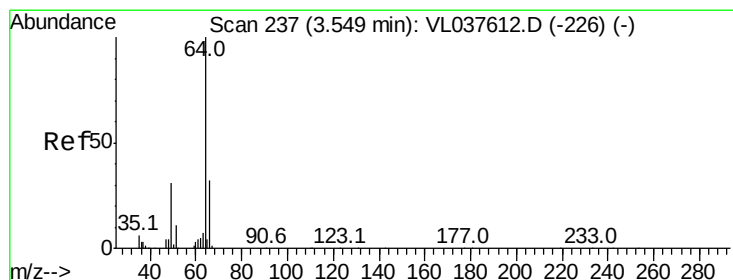
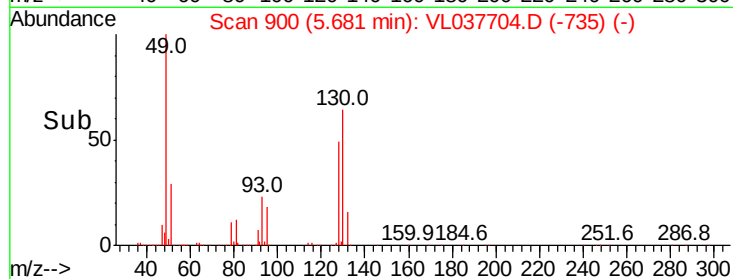
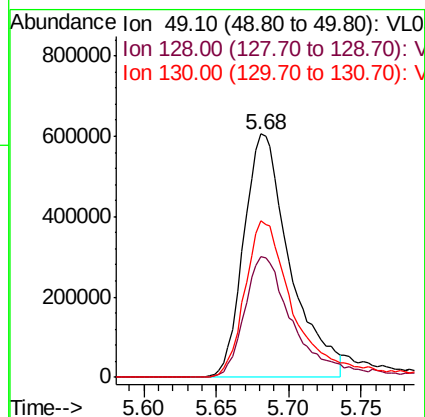
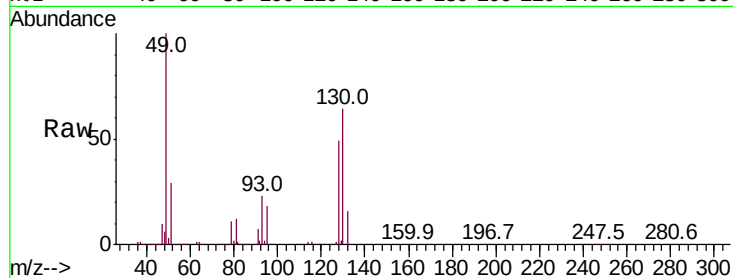
Quant Time: Sep 29 03:41:14 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091621AIR.M
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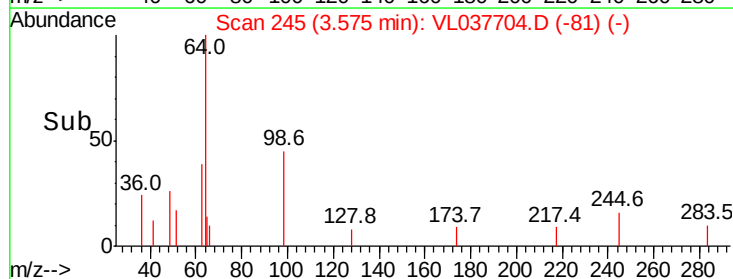
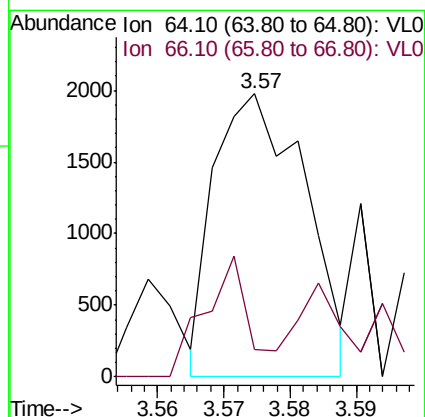
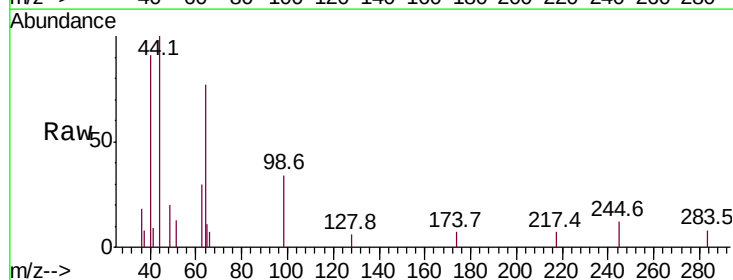
#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.68
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 28 Sep 2021 16:16

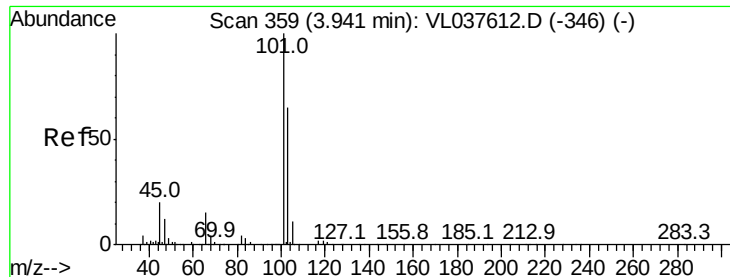
Tot Ion: 49 Resp: 1342617
 Ion Ratio Lower Upper
 49 100
 128 56.1 27.9 83.6
 130 71.0 33.9 101.7



#7
 Chloroethane
 Concen: 0.058 ppbv
 RT: 3.57 min Scan# 245
 Delta R.T. 0.03 min
 Lab File: VL037704.D
 Acq: 28 Sep 2021 16:16

Tgt Ion: 64 Resp: 1889
 Ion Ratio Lower Upper
 64 100
 66 9.6 25.3 37.9#





#11

Trichlorofluoromethane

Concen: 0.206 ppbv

RT: 3.97 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

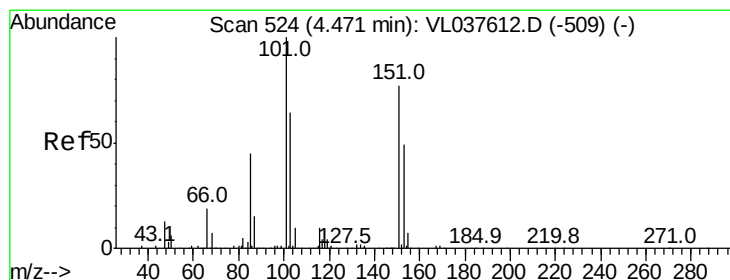
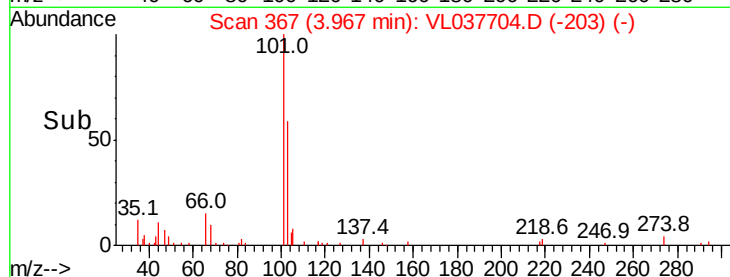
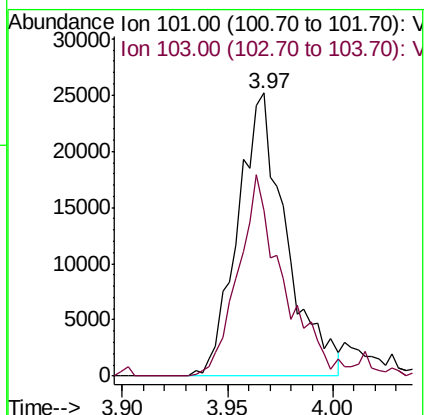
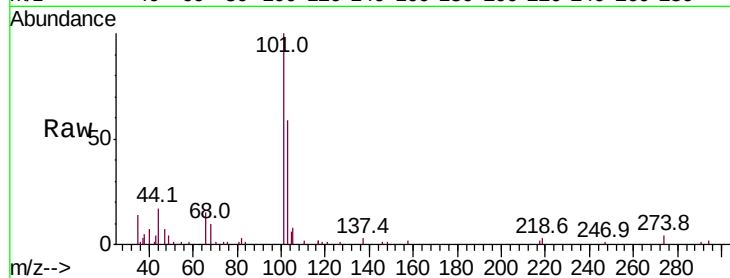
Acq: 28 Sep 2021 16:16

Tot Ion:101 Resp: 40148

Ion Ratio Lower Upper

101 100

103 58.6 51.9 77.9



#12

1,1,2-Trichlorotrifluoroethane

Concen: 1.044 ppbv

RT: 4.50 min Scan# 534

Delta R.T. 0.03 min

Lab File: VL037704.D

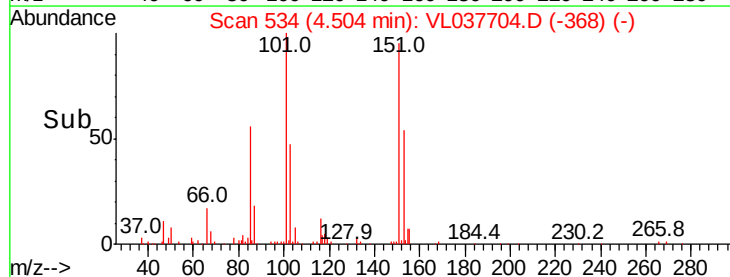
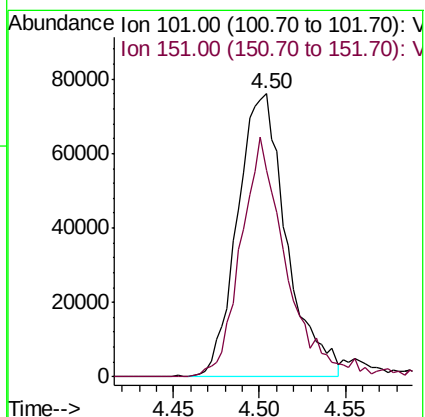
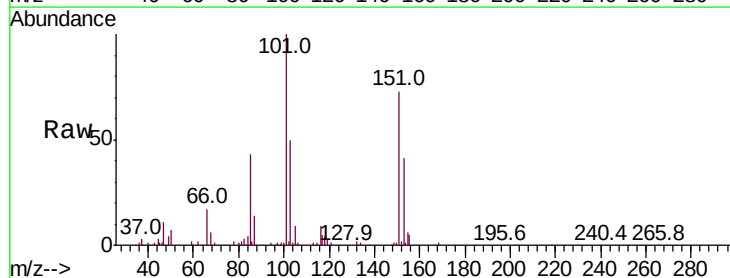
Acq: 28 Sep 2021 16:16

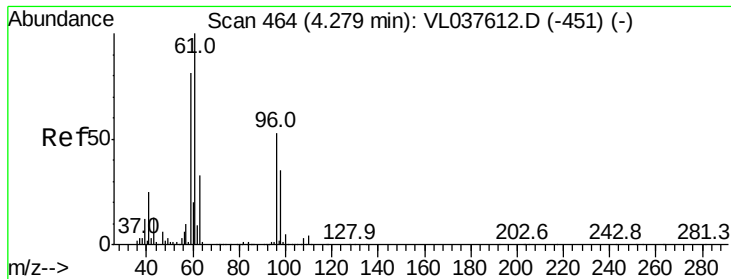
Tgt Ion:101 Resp: 150256

Ion Ratio Lower Upper

101 100

151 80.4 63.5 95.3





#18

1,1-Dichloroethene

Concen: 0.554 ppbv

RT: 4.30

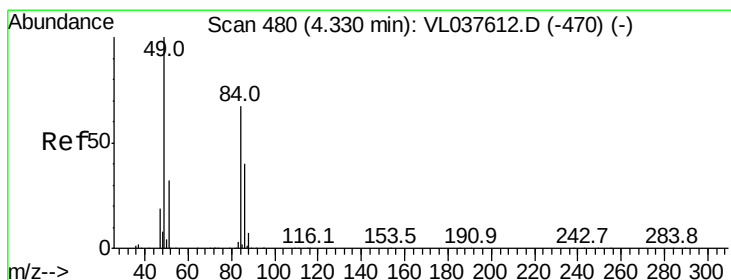
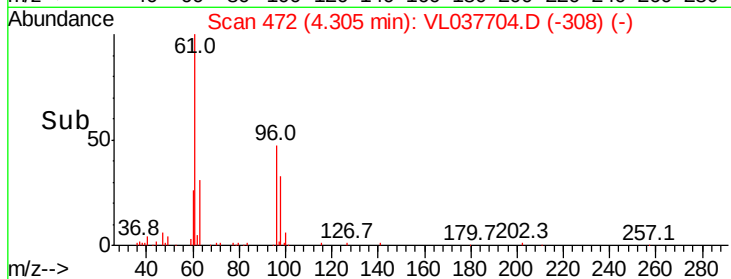
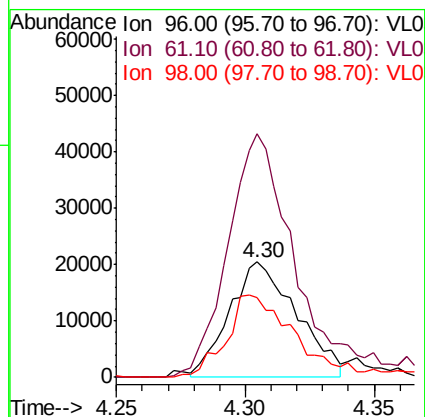
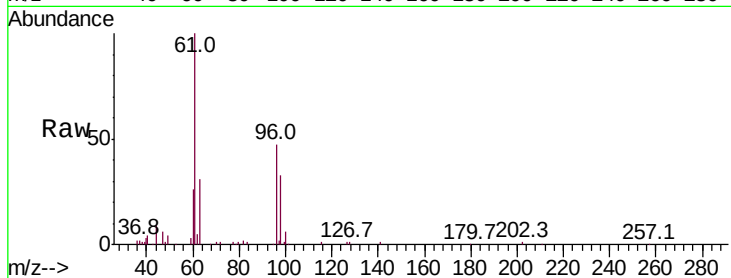
Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId :

Acq: 28 Sep 2021 16:16

Tot Ion	96	Resp	37161
Ion	Ratio	Lower	Upper
96	100		
61	210.8	150.4	225.6
98	70.0	52.1	78.1



#20

Methylene Chloride

Concen: 0.365 ppbv

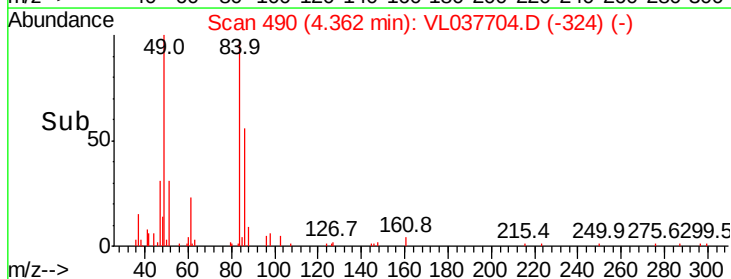
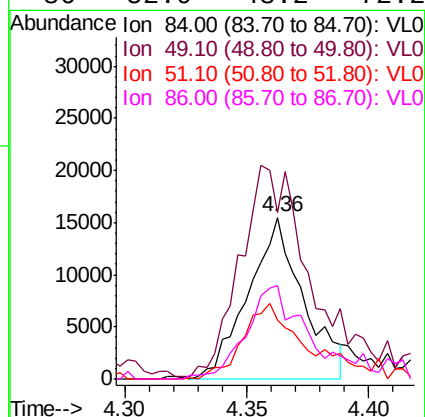
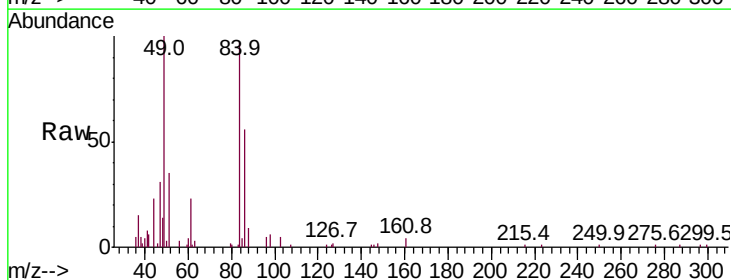
RT: 4.36 min Scan# 490

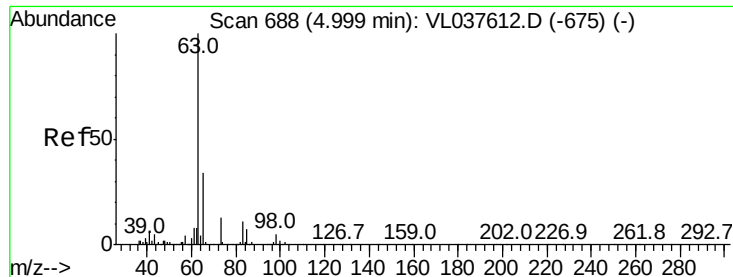
Delta R.T. 0.03 min

Lab File: VL037704.D

Acq: 28 Sep 2021 16:16

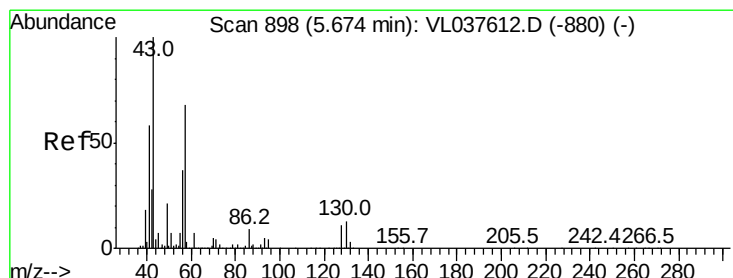
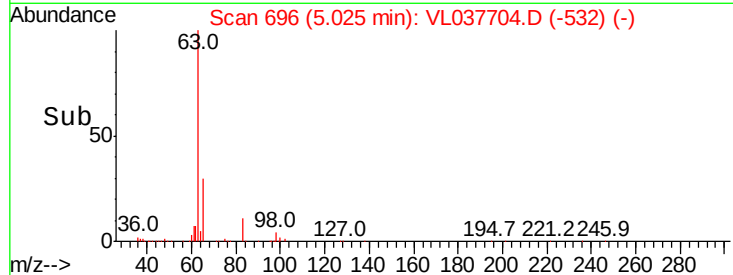
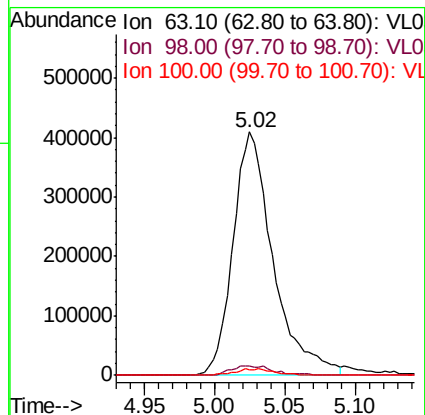
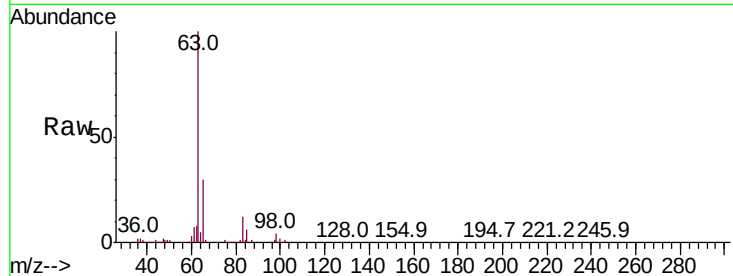
Tgt Ion	84	Resp	24320
Ion	Ratio	Lower	Upper
84	100		
49	97.3	120.0	180.0#
51	33.8	38.0	57.0#
86	52.9	48.2	72.2





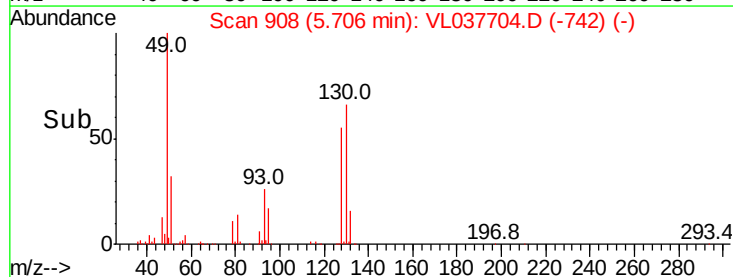
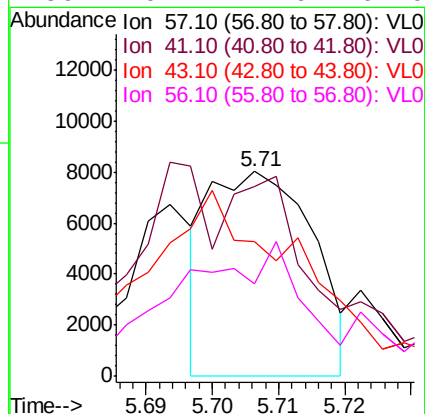
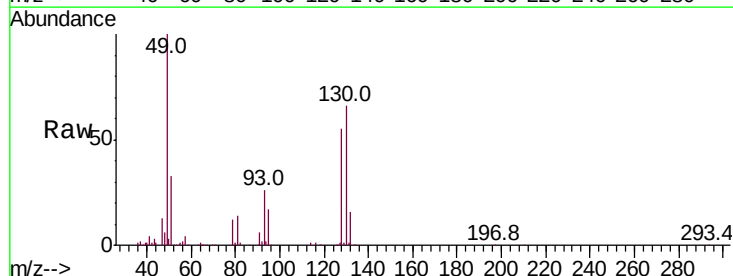
#24
 1,1-Dichloroethane
 Concen: 5.903 ppbv
 RT: 5.02
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 28 Sep 2021 16:16

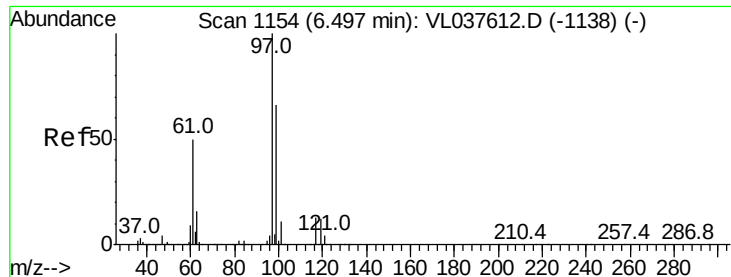
Tot Ion:	63	Resp:	816260
Ion Ratio	Lower	Upper	
63	100		
98	4.0	2.4	7.2
100	2.4	1.1	3.5



#26
 Hexane
 Concen: 0.054 ppbv
 RT: 5.71 min Scan# 908
 Delta R.T. 0.03 min
 Lab File: VL037704.D
 Acq: 28 Sep 2021 16:16

Tgt Ion:	57	Resp:	8663
Ion Ratio	Lower	Upper	
57	100		
41	0.0	70.9	106.3#
43	156.0	170.4	255.6#
56	119.2	42.6	64.0#





#32

1,1,1-Trichloroethane

Concen: 37.220 ppbv

RT: 6.52 Instrument:

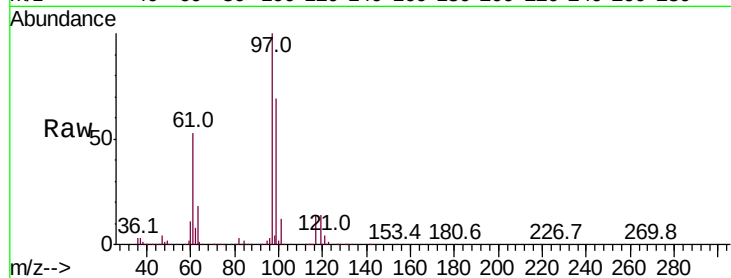
Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 28 Sep 2021 16:16

Tot Ion: 97 Resp: 8120668

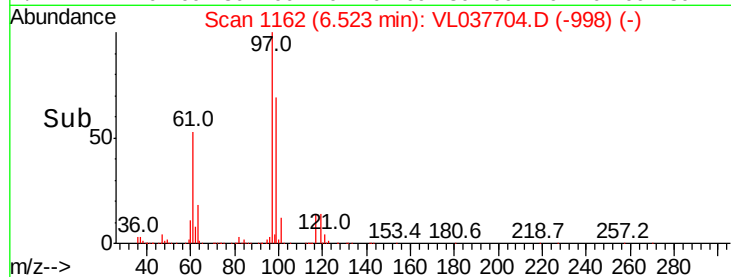
Ion	Ratio	Lower	Upper
97	100		
99	66.4	52.3	78.5
61	51.6	39.5	59.3



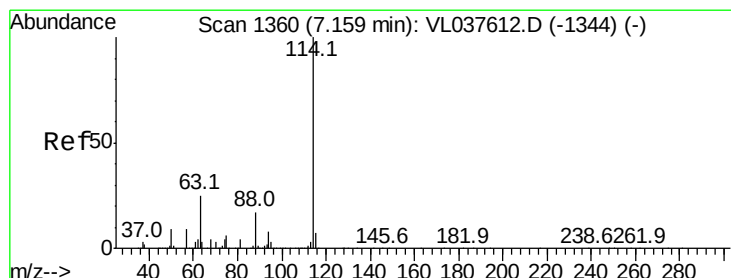
Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

Ion 61.10 (60.80 to 61.80): VL0



Time-->



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19 min Scan# 1369

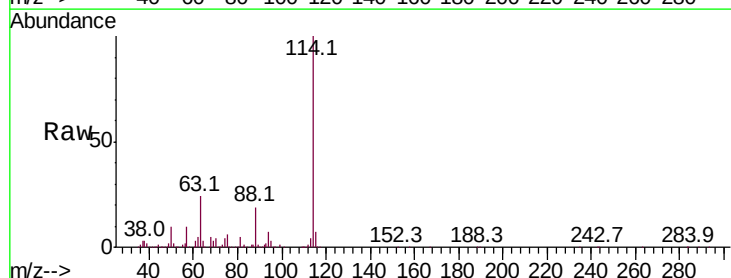
Delta R.T. 0.03 min

Lab File: VL037704.D

Acq: 28 Sep 2021 16:16

Tgt Ion:114 Resp: 4146639

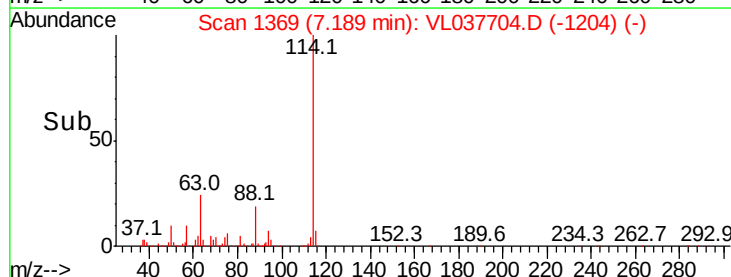
Ion	Ratio	Lower	Upper
114	100		
63	24.2	19.6	29.4
88	18.1	14.2	21.4



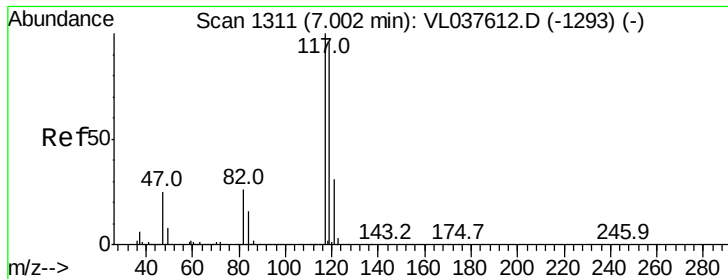
Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



Time-->



#35

Carbon Tetrachloride

Concen: 0.073 ppbv

RT: 6.58 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 28 Sep 2021 16:16

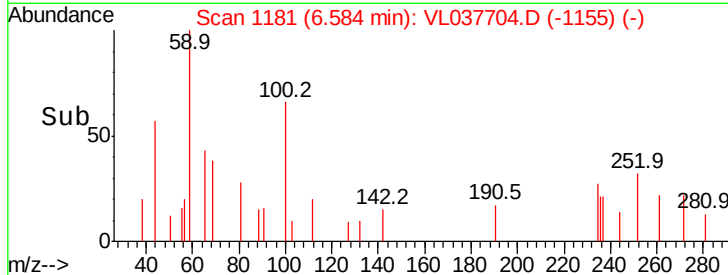
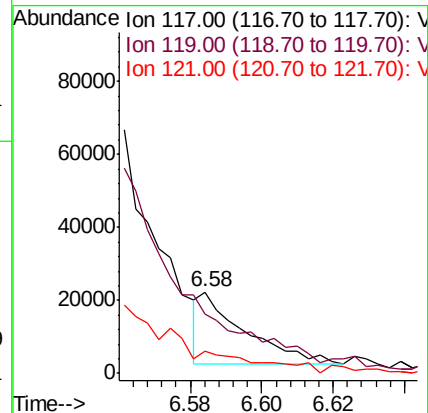
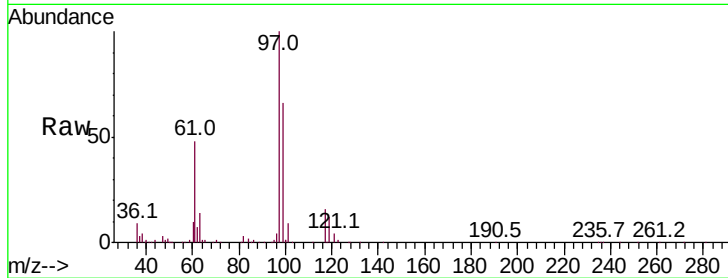
Tot Ion:117 Resp: 17186

Ion Ratio Lower Upper

117 100

119 61.6 77.0 115.6#

121 20.5 24.5 36.7#



#37

1,2-Dichloroethane

Concen: 3.402 ppbv

RT: 6.53 min Scan# 1163

Delta R.T. 0.23 min

Lab File: VL037704.D

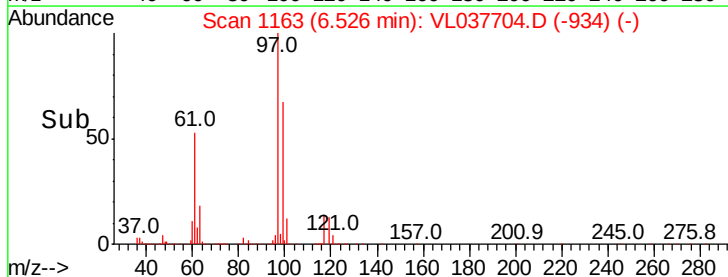
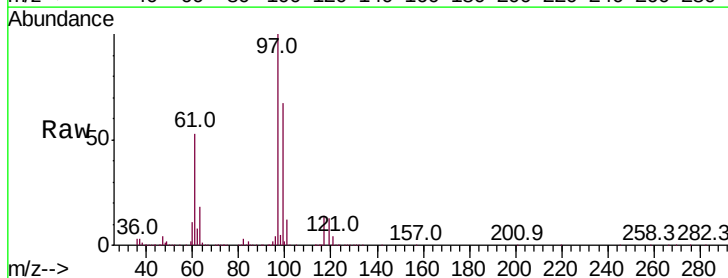
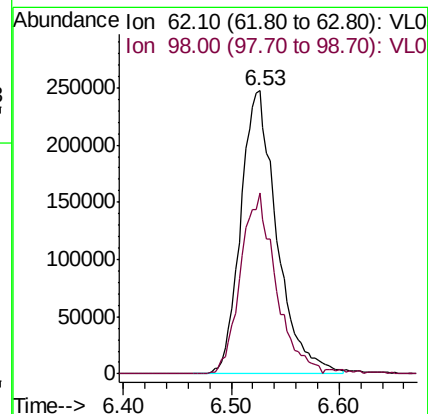
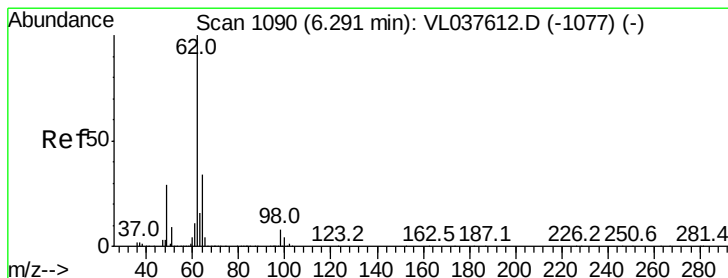
Acq: 28 Sep 2021 16:16

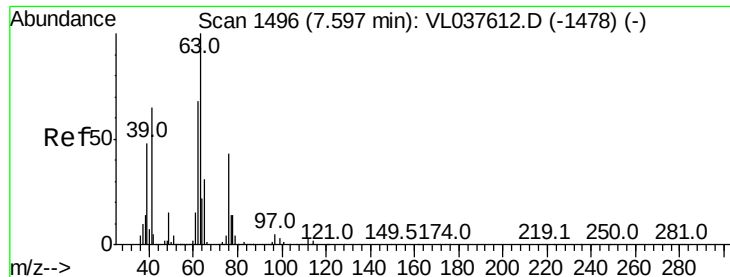
Tgt Ion: 62 Resp: 578610

Ion Ratio Lower Upper

62 100

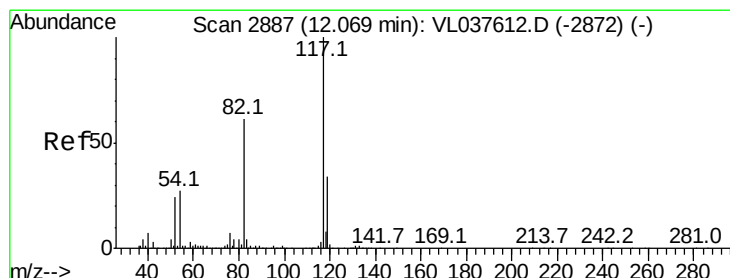
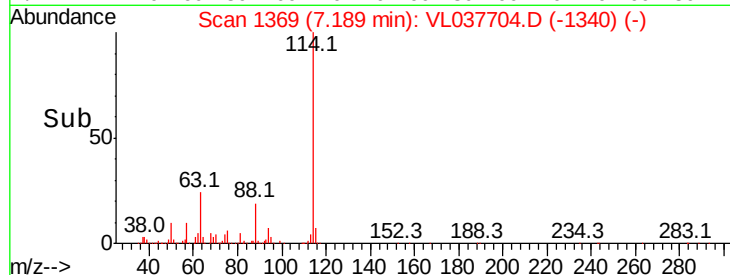
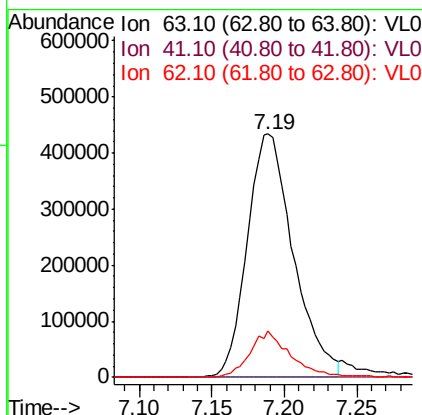
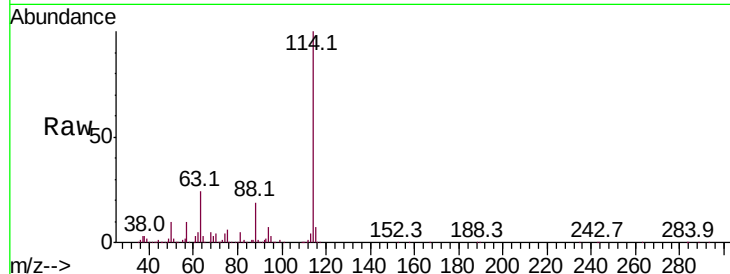
98 63.9 6.1 9.1#





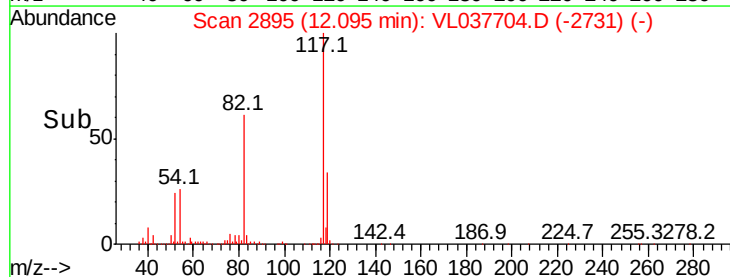
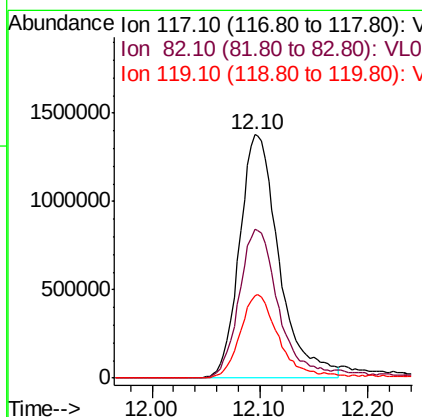
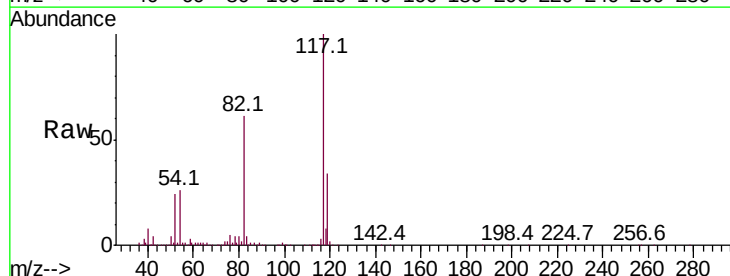
#39
 1,2-Dichloropropane
 Concen: 7.252 ppbv
 RT: 7.19
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 28 Sep 2021 16:16

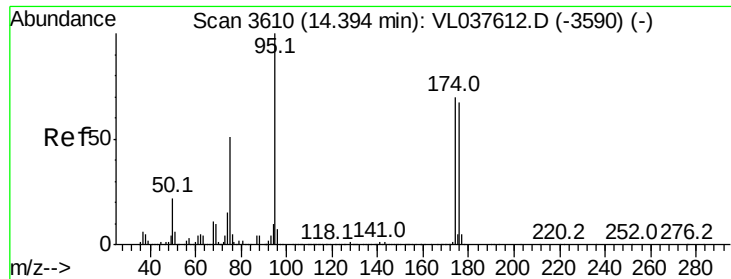
Tot Ion	63	Resp	960468
Ion	Ratio	Lower	Upper
63	100		
41	0.0	51.6	77.4#
62	19.0	54.6	81.8#



#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.10 min Scan# 2895
 Delta R.T.: 0.03 min
 Lab File: VL037704.D
 Acq: 28 Sep 2021 16:16

Tgt Ion	117	Resp	3510607
Ion	Ratio	Lower	Upper
117	100		
82	64.3	50.6	75.8
119	35.6	26.2	39.2





#68

1-Bromo-4-Fluorobenzene

Concen: 9.363 ppbv

RT: 14.43

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 28 Sep 2021 10:10

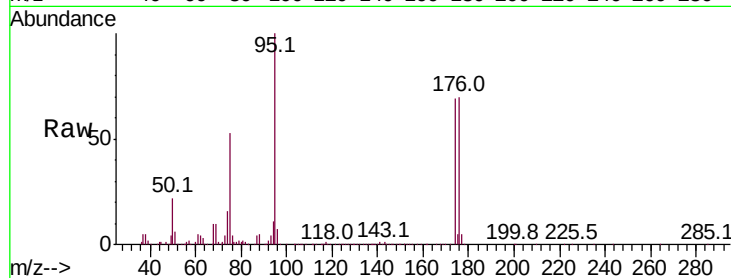
Tot Ion: 95 Resp: 2375535

Ion Ratio Lower Upper

95 100

174 81.6 56.3 84.5

175 6.0 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

