

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090821\
 Data File : VL037590.D
 Acq On : 9 Sep 2021 3:17
 Operator : SY/AP
 Sample : M3663-07DL 40X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-4DL

Quant Time: Sep 09 09:16:01 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Aug 17 02:13:47 2021
 QLast Update : Tue Aug 17 02:13:47 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1545935	10.00	ppbv	0.03
33) 1,4-Difluorobenzene	7.19	114	4618590	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.10	117	4047073	10.00	ppbv	0.04

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.43	95	2854084	9.93	ppbv	0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.30%

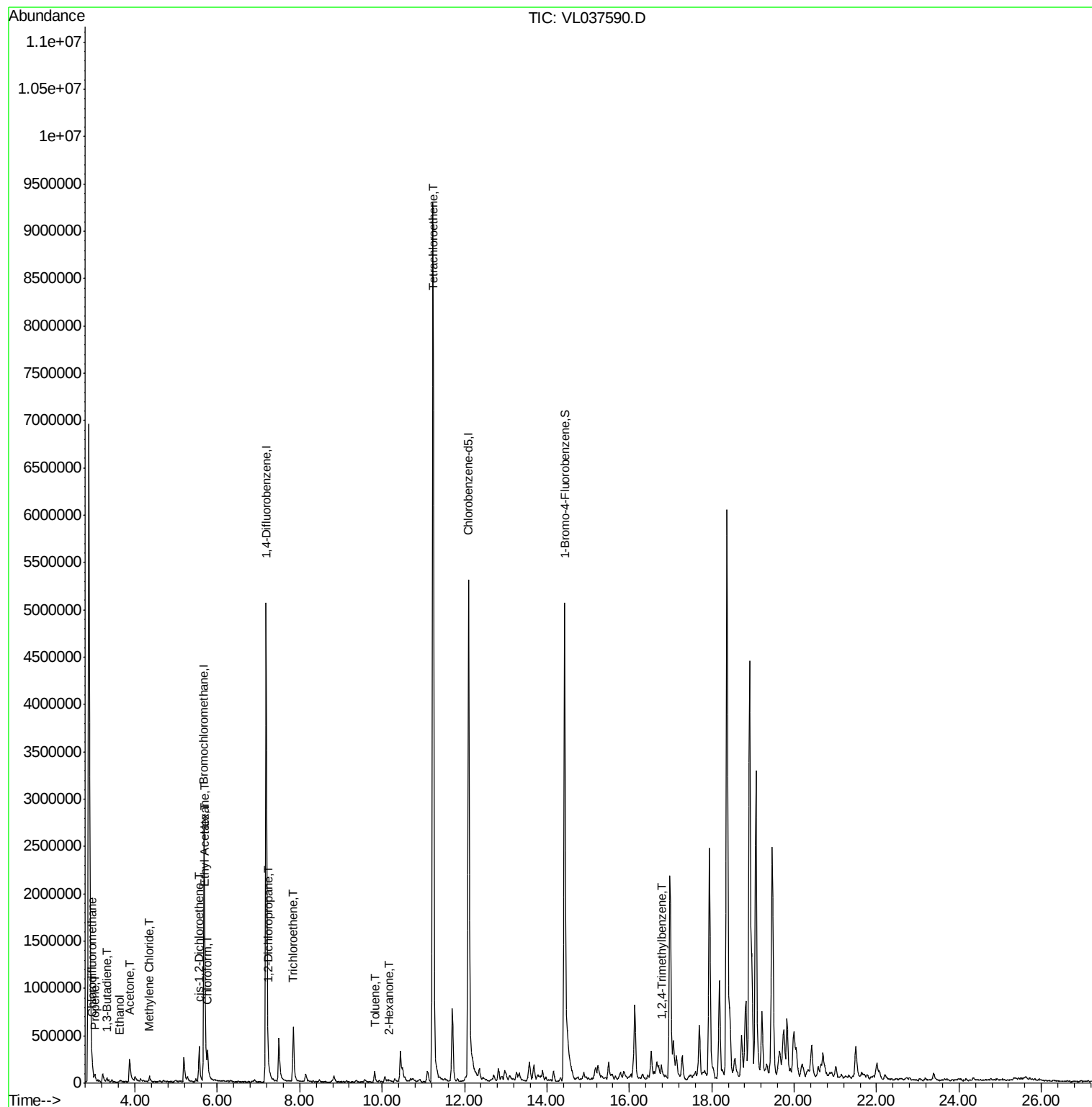
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.97	51	46061	0.156	ppbv #	64
9) Propene	3.02	41	14216	0.134	ppbv #	41
13) Ethanol	3.62	45	5839	0.567	ppbv #	39
15) Acetone	3.87	43	356798	2.268	ppbv #	79
16) 1,3-Butadiene	3.33	39	3888	0.039	ppbv #	10
20) Methylene Chloride	4.35	84	10432	0.132	ppbv #	78
25) Ethyl Acetate	5.70	43	50975	0.128	ppbv #	83
26) Hexane	5.70	57	62821	0.322	ppbv #	43
29) Chloroform	5.76	83	173485	0.627	ppbv	96
31) cis-1,2-Dichloroethene	5.56	61	226642	1.282	ppbv	94
38) Trichloroethene	7.84	130	110045	0.691	ppbv	94
39) 1,2-Dichloropropane	7.23	63	12425	0.083	ppbv #	25
51) 2-Hexanone	10.16	43	4190	0.037	ppbv #	27
52) Tetrachloroethene	11.24	164	2808393	17.652	ppbv	98
53) Toluene	9.82	91	75611	0.171	ppbv #	84
74) 1,2,4-Trimethylbenzene	16.78	105	68718	0.129	ppbv #	63

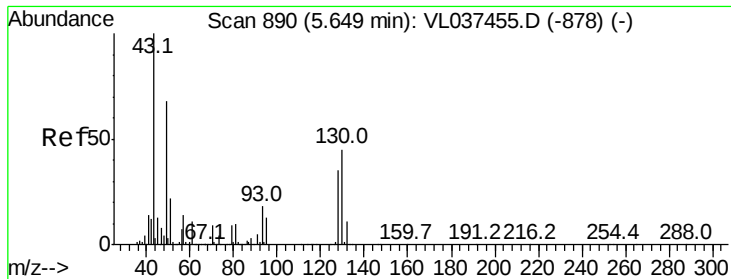
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Aug 17 02:13:47 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 899

Delta R.T. 0.03 min

Lab File: VL037590.D

Acq: 9 Sep 2021 3:17

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MSVOA_L

ClientSampleId :

SV-4DL

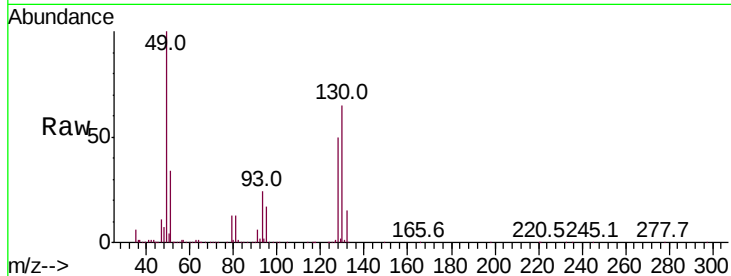
Tot Ion: 49 Resp: 1545935

Ion Ratio Lower Upper

49 100

128 53.8 27.5 82.4

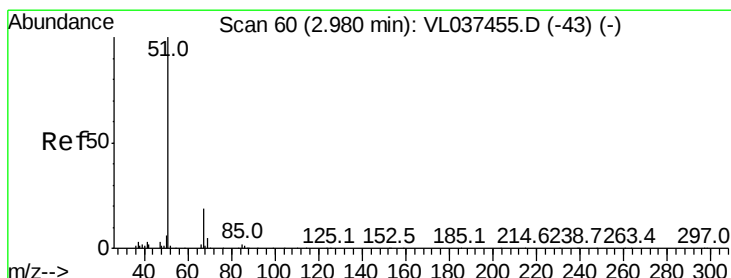
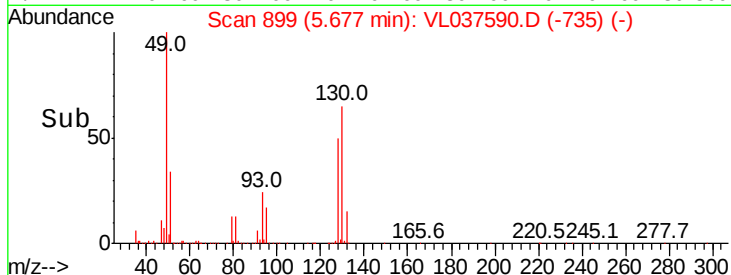
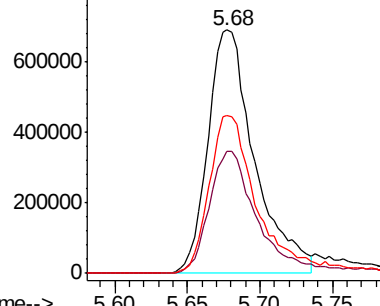
130 70.5 34.0 101.8



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#3

Chlorodifluoromethane

Concen: 0.156 ppbv

RT: 2.97 min Scan# 58

Delta R.T. -0.01 min

Lab File: VL037590.D

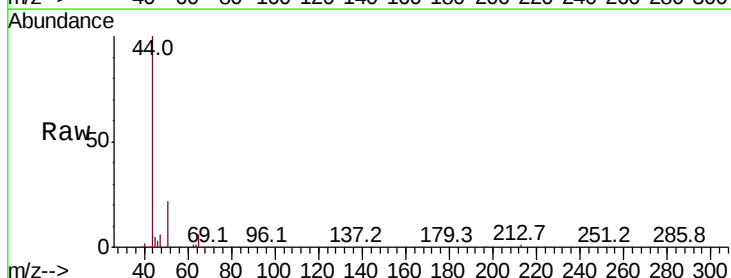
Acq: 9 Sep 2021 3:17

Tgt Ion: 51 Resp: 46061

Ion Ratio Lower Upper

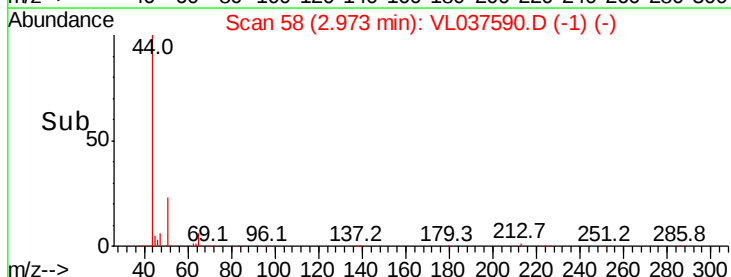
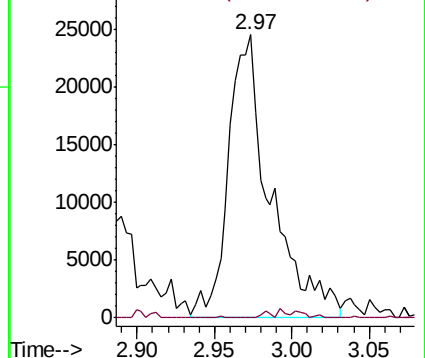
51 100

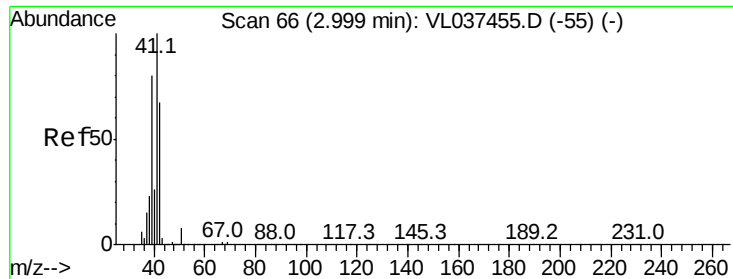
67 2.0 14.2 21.2#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 0.134 ppbv

RT: 3.02 min Scan# 73

Delta R.T. 0.02 min

Lab File: VL037590.D

Acq: 9 Sep 2021 3:17

Instrument :

MSVOA_L

ClientSampleId :

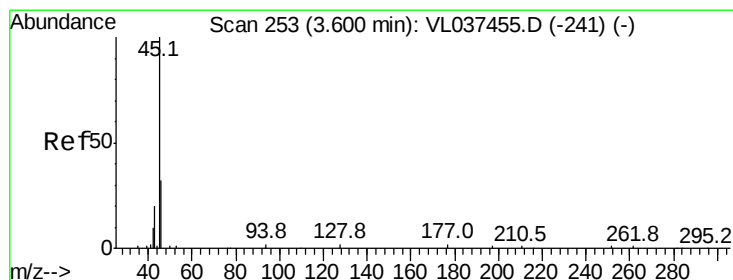
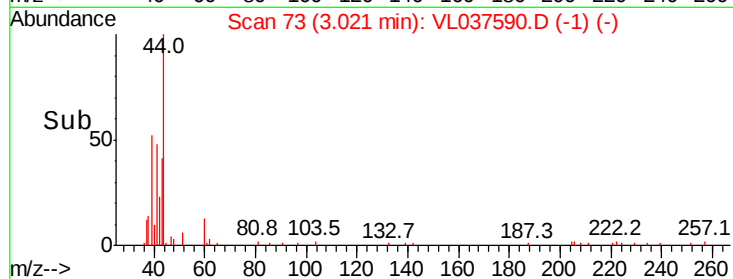
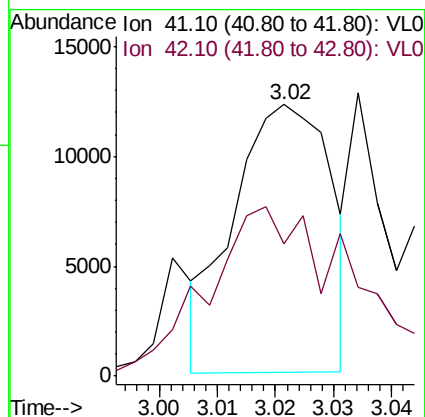
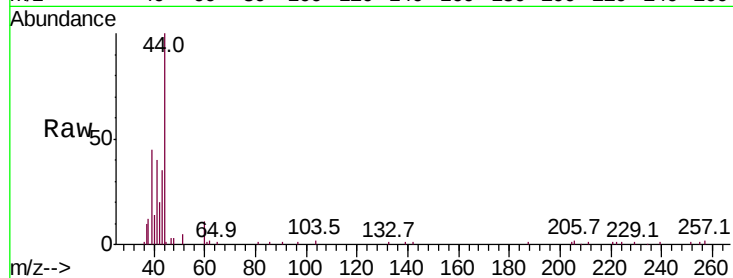
SV-4DL

Tot Ion: 41 Resp: 14216

Ion Ratio Lower Upper

41 100

42 114.1 53.7 80.5#



#13

Ethanol

Concen: 0.567 ppbv

RT: 3.62 min Scan# 260

Delta R.T. 0.02 min

Lab File: VL037590.D

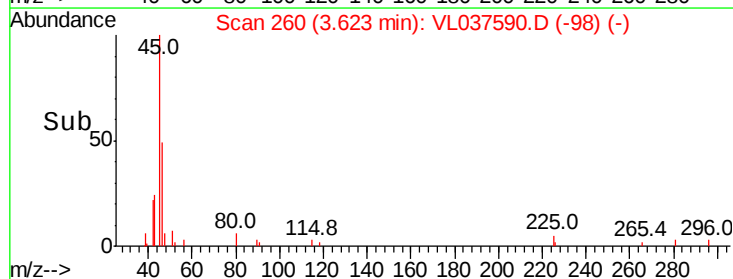
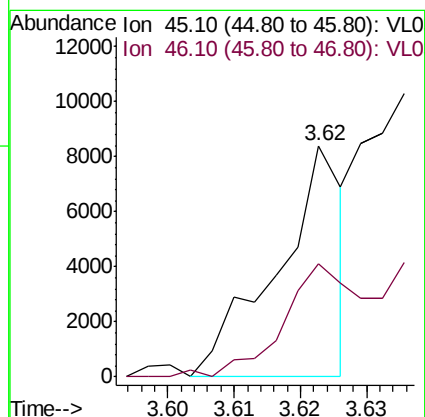
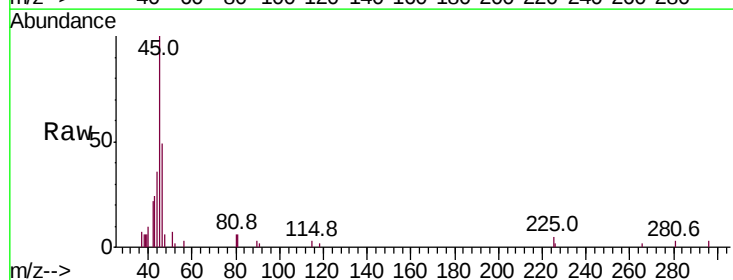
Acq: 9 Sep 2021 3:17

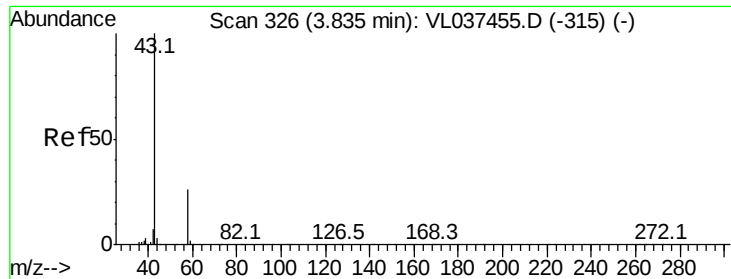
Tgt Ion: 45 Resp: 5839

Ion Ratio Lower Upper

45 100

46 0.0 14.1 56.5#

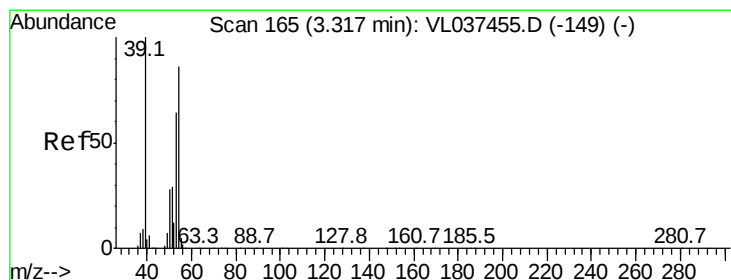
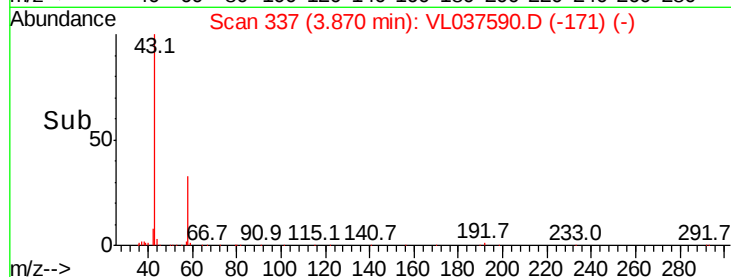
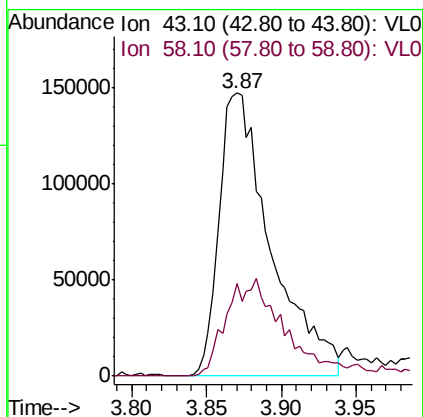
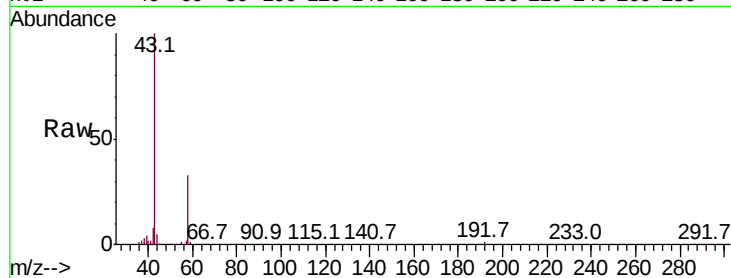




#15
Acetone
Concen: 2.268 ppbv
RT: 3.87 min Scan# 337
Delta R.T. 0.04 min
Lab File: VL037590.D
Acq: 9 Sep 2021 3:17

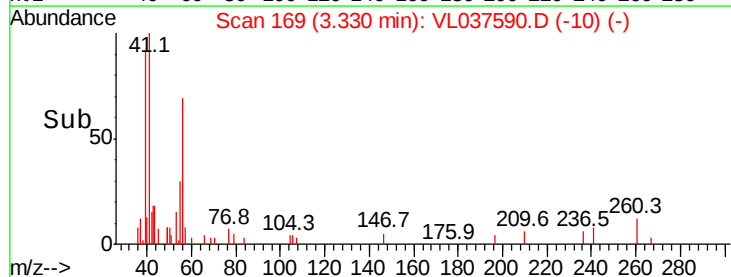
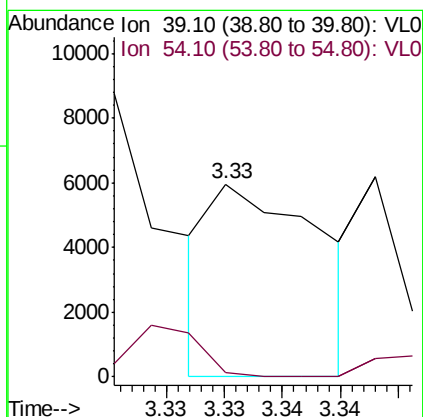
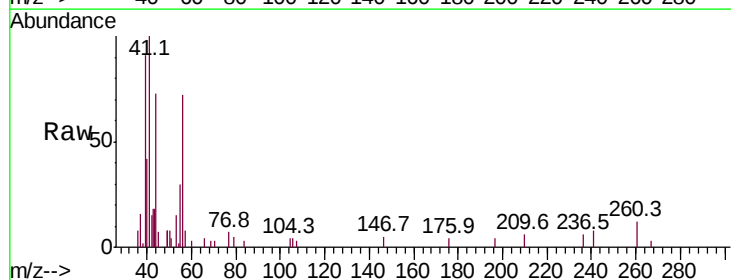
Instrument :
MSVOA_L
ClientSampleId :
SV-4DL

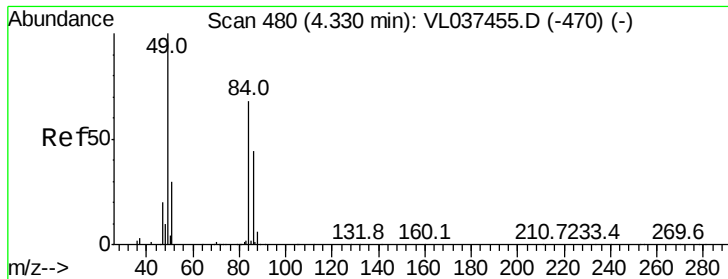
Tot Ion: 43 Resp: 356798
Ion Ratio Lower Upper
43 100
58 42.3 24.8 37.2#



#16
1,3-Butadiene
Concen: 0.039 ppbv
RT: 3.33 min Scan# 169
Delta R.T. 0.01 min
Lab File: VL037590.D
Acq: 9 Sep 2021 3:17

Tgt Ion: 39 Resp: 3888
Ion Ratio Lower Upper
39 100
54 0.0 63.7 95.5#

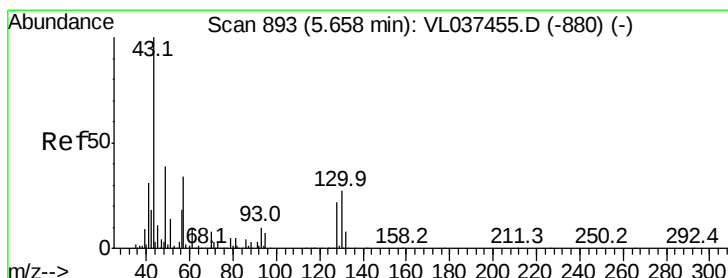
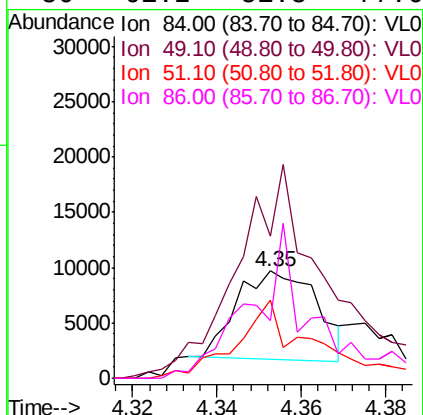
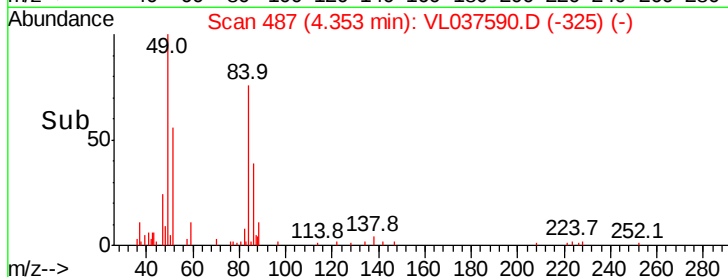
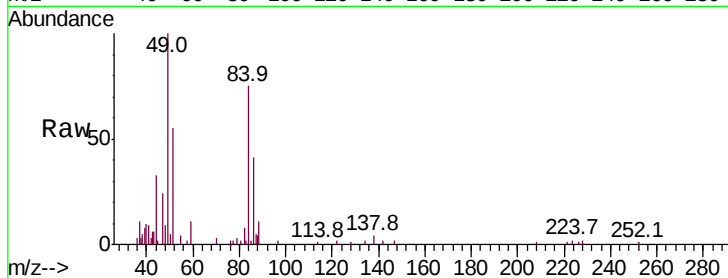




#20
Methylene Chloride
Concen: 0.132 ppbv
RT: 4.35 min Scan# 487
Delta R.T. 0.02 min
Lab File: VL037590.D
Acq: 9 Sep 2021 3:17

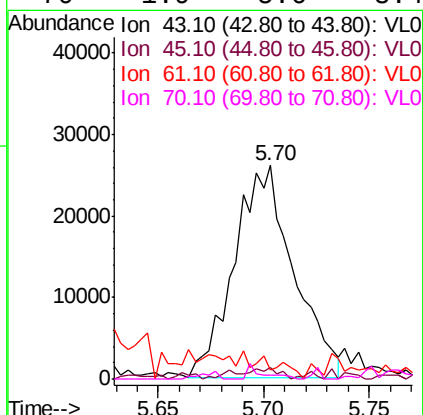
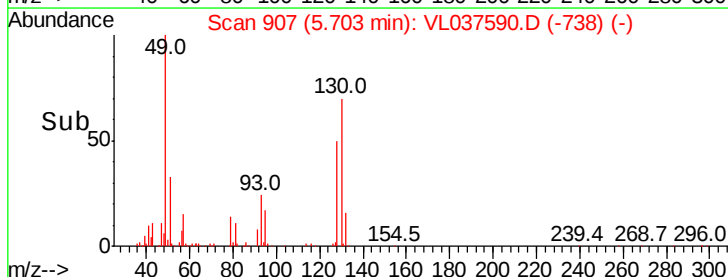
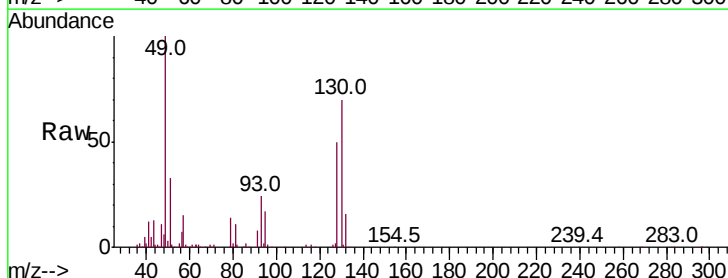
Instrument :
MSVOA_L
ClientSampled :
SV-4DL

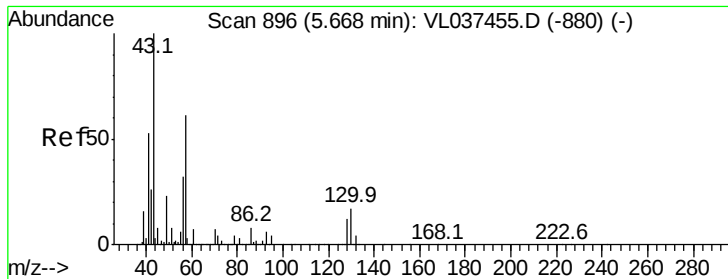
Tot Ion: 84 Resp: 10432
Ion Ratio Lower Upper
84 100
49 124.0 118.2 177.2
51 84.8 36.6 55.0#
86 61.2 51.8 77.6



#25
Ethyl Acetate
Concen: 0.128 ppbv
RT: 5.70 min Scan# 907
Delta R.T. 0.04 min
Lab File: VL037590.D
Acq: 9 Sep 2021 3:17

Tgt Ion: 43 Resp: 50975
Ion Ratio Lower Upper
43 100
45 7.1 8.0 12.0#
61 0.0 8.0 12.0#
70 1.9 5.6 8.4#

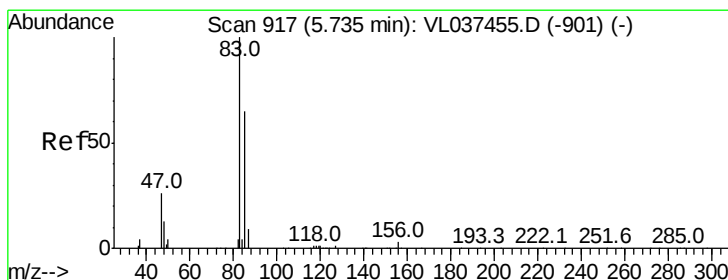
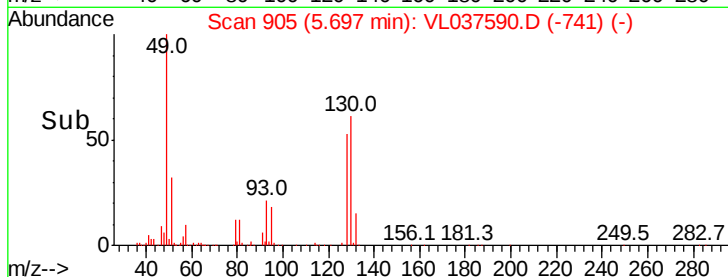
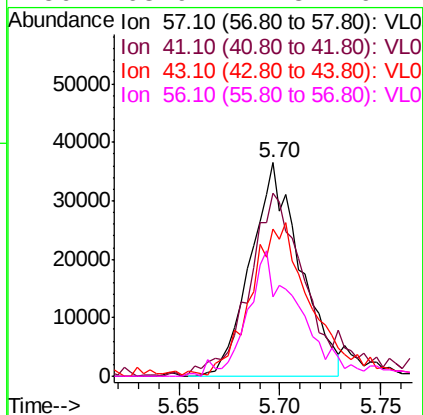
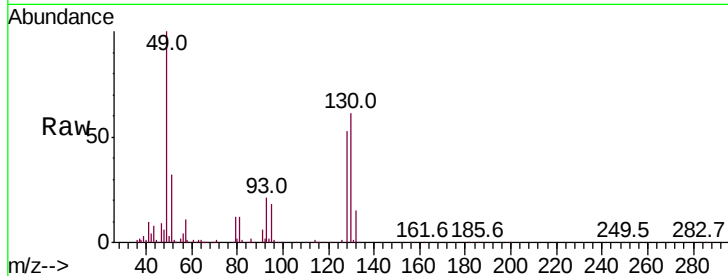




#26
Hexane
Concen: 0.322 ppbv
RT: 5.70 min Scan# 905
Delta R.T. 0.03 min
Lab File: VL037590.D
Acq: 9 Sep 2021 3:17

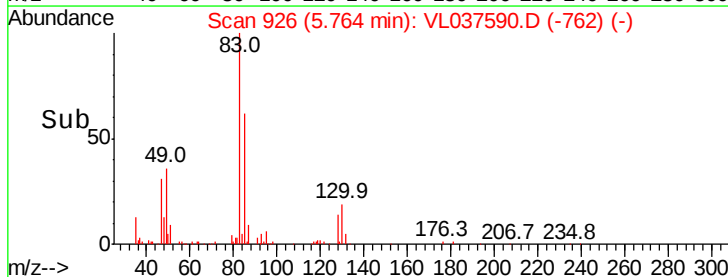
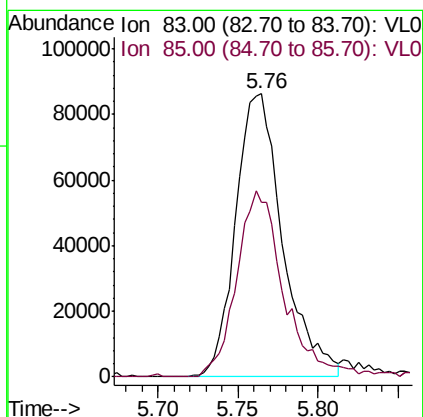
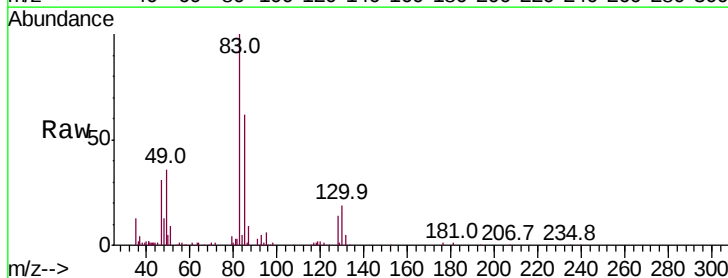
Instrument :
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ClientSampleId :
SV-4DL

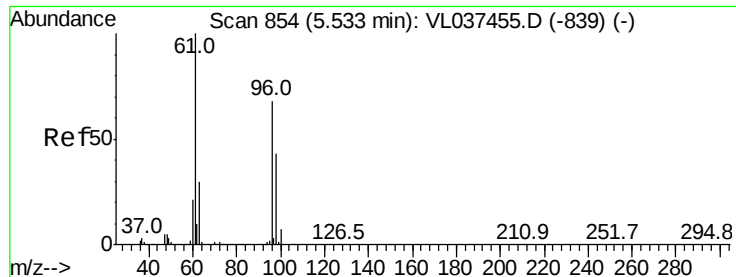
Tot Ion: 57 Resp: 62821
Ion Ratio Lower Upper
57 100
41 106.9 72.3 108.5
43 82.8 172.3 258.5#
56 63.9 42.8 64.2



#29
Chloroform
Concen: 0.627 ppbv
RT: 5.76 min Scan# 926
Delta R.T. 0.03 min
Lab File: VL037590.D
Acq: 9 Sep 2021 3:17

Tgt Ion: 83 Resp: 173485
Ion Ratio Lower Upper
83 100
85 61.9 52.3 78.5





#31

cis-1,2-Dichloroethene

Concen: 1.282 ppbv

RT: 5.56 min Scan# 862

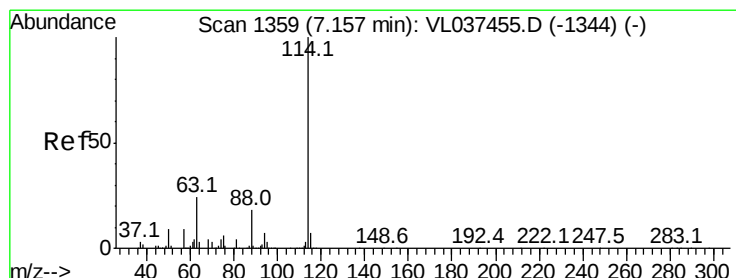
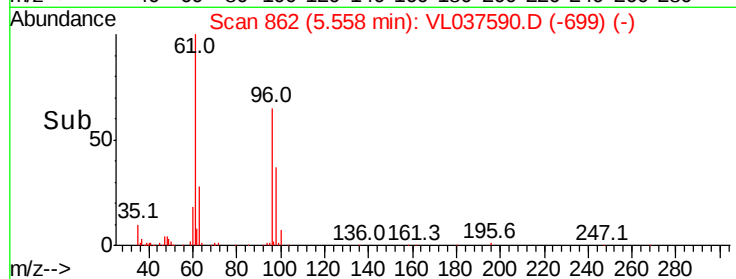
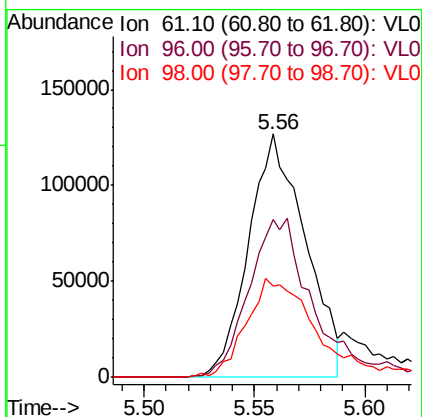
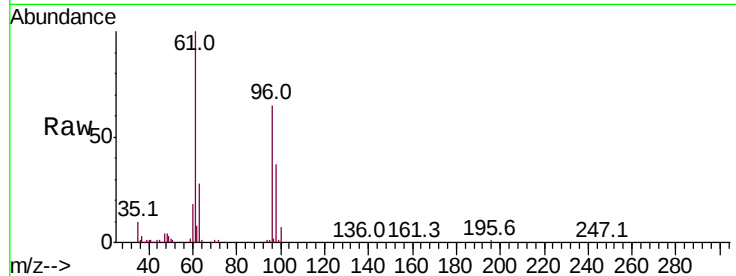
Delta R.T. 0.03 min

Lab File: VL037590.D

Acq: 9 Sep 2021 3:17

Instrument :
MSVOA_L
ClientSampleId :
SV-4DL

Tot Ion	Ratio	Lower	Upper
61	100		
96	65.1	54.8	82.2
98	37.4	34.2	51.2



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

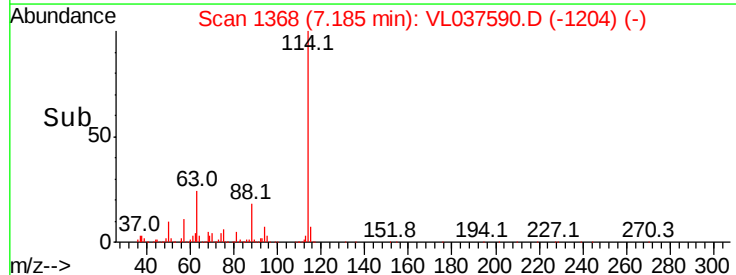
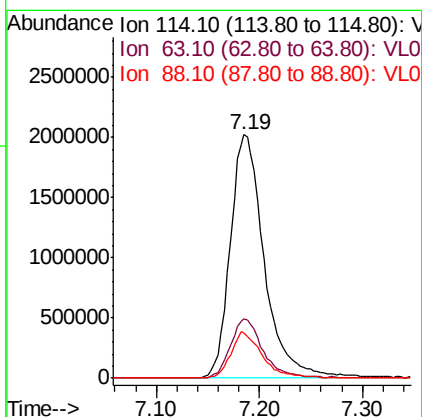
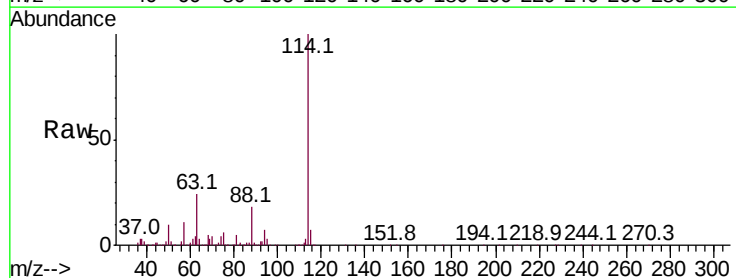
RT: 7.19 min Scan# 1368

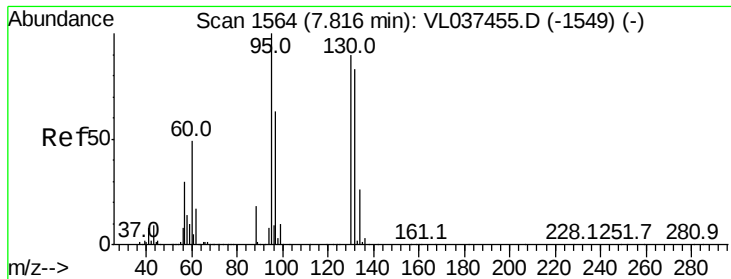
Delta R.T. 0.03 min

Lab File: VL037590.D

Acq: 9 Sep 2021 3:17

Tgt Ion	Ratio	Lower	Upper
114	100		
63	23.8	19.3	28.9
88	17.9	14.2	21.4





#38

Trichloroethene

Concen: 0.691 ppbv

RT: 7.84 min Scan# 1573

Delta R.T. 0.03 min

Lab File: VL037590.D

Acq: 9 Sep 2021 3:17

Instrument :

MSVOA_L

ClientSampleId :

SV-4DL

Tot Ion:130 Resp: 110045

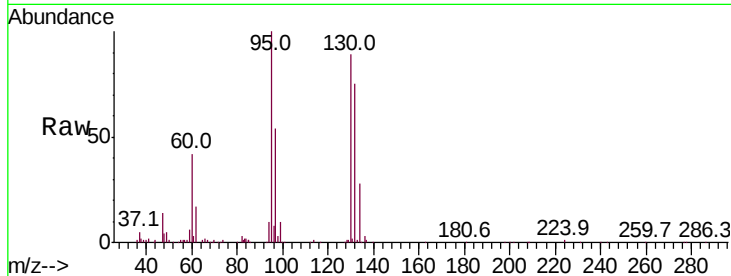
Ion Ratio Lower Upper

130 100

95 111.1 89.2 133.8

132 83.9 74.0 111.0

97 61.3 56.6 84.8

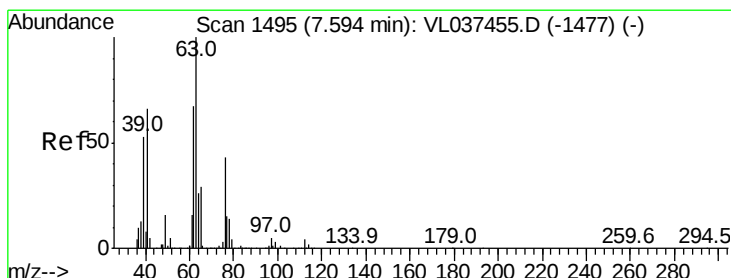
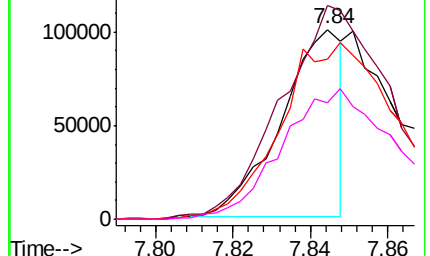
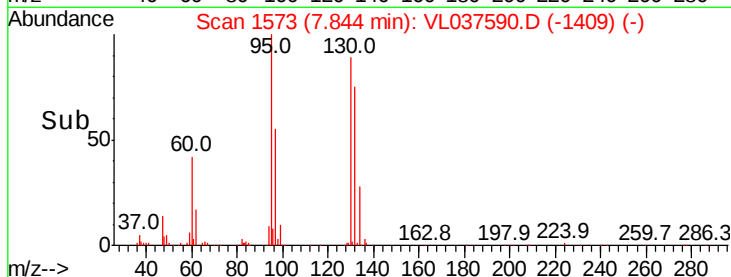


Abundance Ion 130.00 (129.70 to 130.70): V

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: 0.083 ppbv

RT: 7.23 min Scan# 1383

Delta R.T. -0.36 min

Lab File: VL037590.D

Acq: 9 Sep 2021 3:17

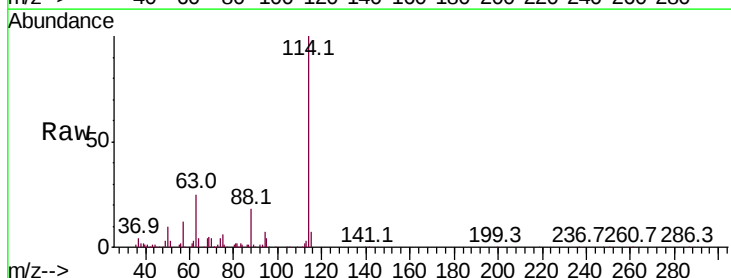
Tgt Ion: 63 Resp: 12425

Ion Ratio Lower Upper

63 100

41 3.3 52.4 78.6#

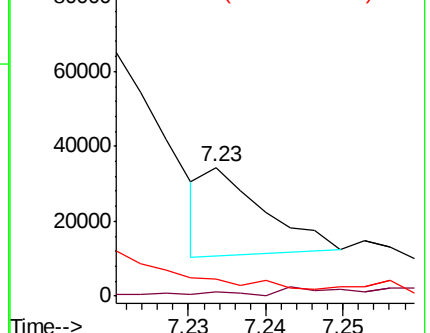
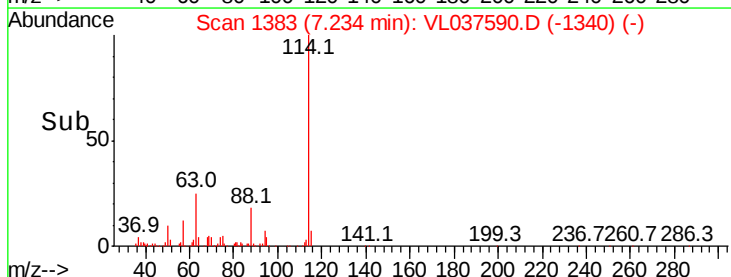
62 9.5 53.6 80.4#

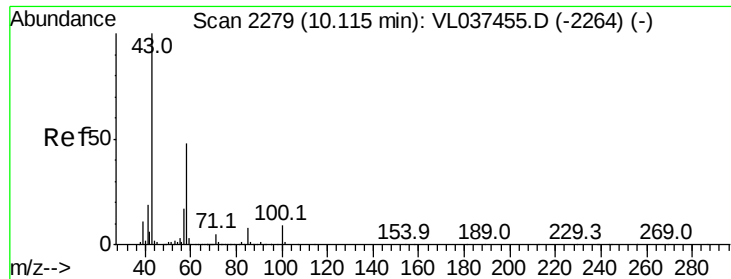


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0

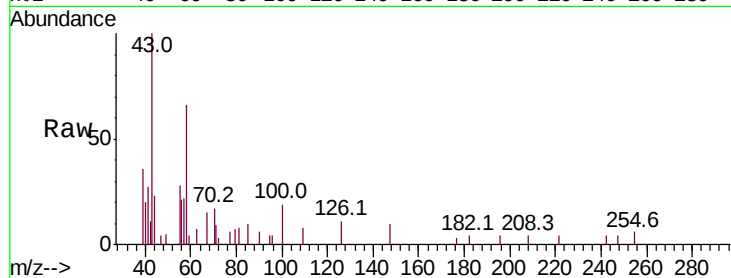




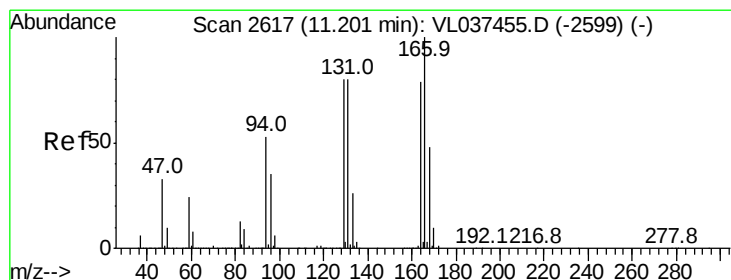
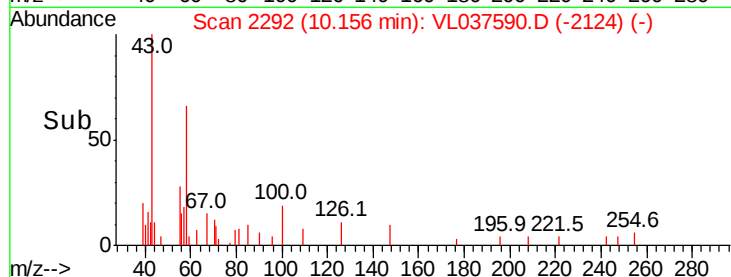
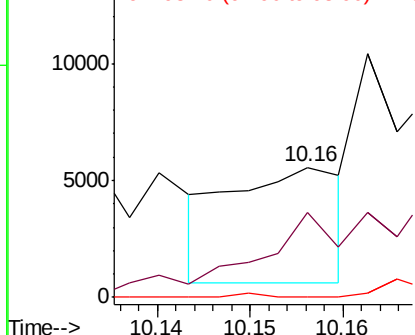
#51
2-Hexanone
Concen: 0.037 ppbv
RT: 10.16 min Scan# 2292
Delta R.T. 0.04 min
Lab File: VL037590.D
Acq: 9 Sep 2021 3:17

Instrument :
MSVOA_L
ClientSampled :
SV-4DL

Tot Ion: 43 Resp: 4190
Ion Ratio Lower Upper
43 100
58 0.0 41.0 61.6#
98 0.0 0.3 0.5#

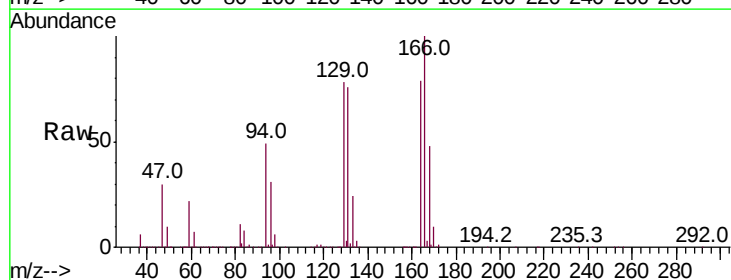


Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0

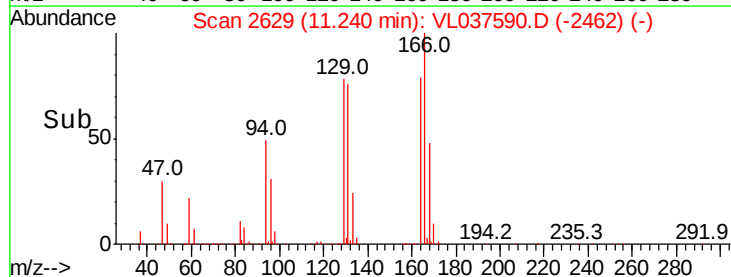
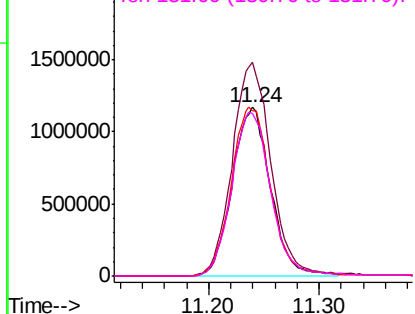


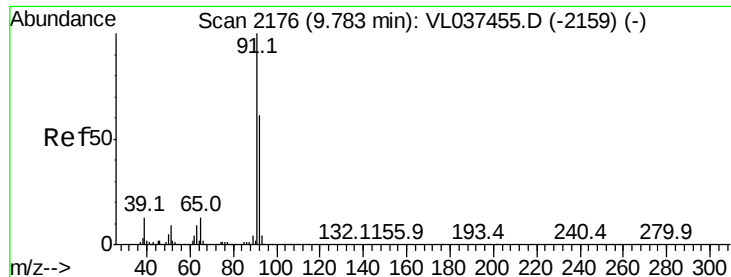
#52
Tetrachloroethene
Concen: 17.652 ppbv
RT: 11.24 min Scan# 2629
Delta R.T. 0.04 min
Lab File: VL037590.D
Acq: 9 Sep 2021 3:17

Tgt Ion: 164 Resp: 2808393
Ion Ratio Lower Upper
164 100
166 126.7 100.7 151.1
129 98.3 80.9 121.3
131 96.5 80.2 120.4



Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 0.171 ppbv

RT: 9.82 min Scan# 2188

Delta R.T. 0.04 min

Lab File: VL037590.D

Acq: 9 Sep 2021 3:17

Instrument :

MSVOA_L

ClientSampleId :

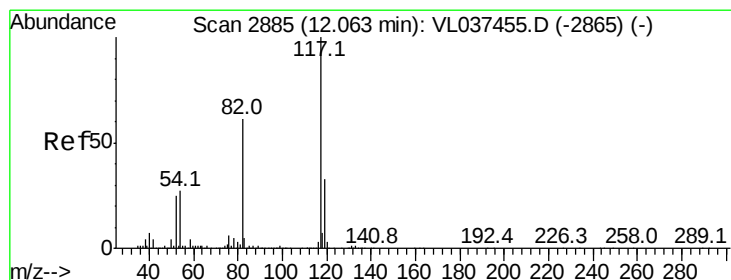
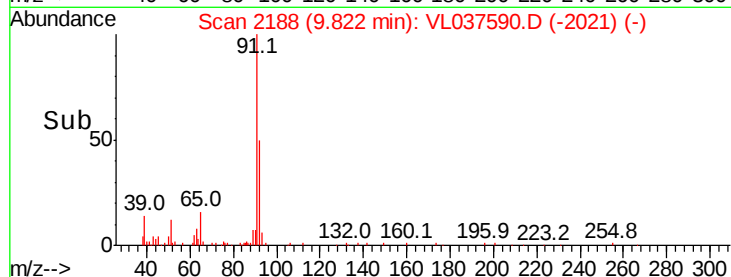
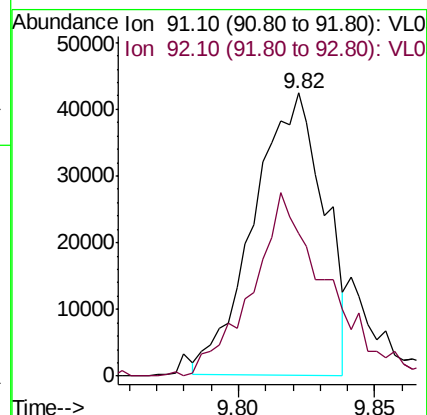
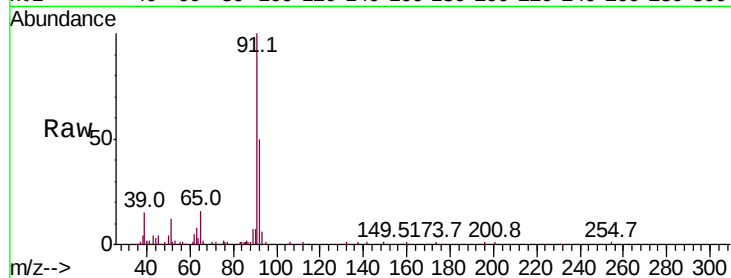
SV-4DL

Tot Ion: 91 Resp: 75611

Ion Ratio Lower Upper

91 100

92 73.3 48.8 73.2#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2896

Delta R.T. 0.04 min

Lab File: VL037590.D

Acq: 9 Sep 2021 3:17

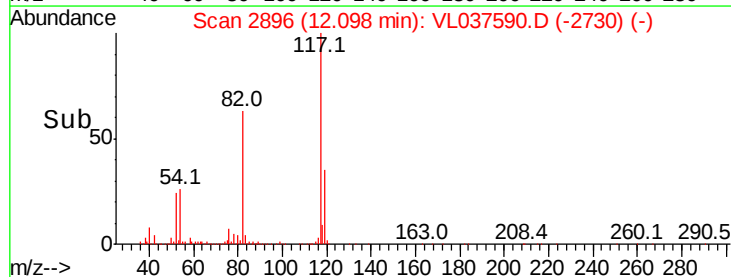
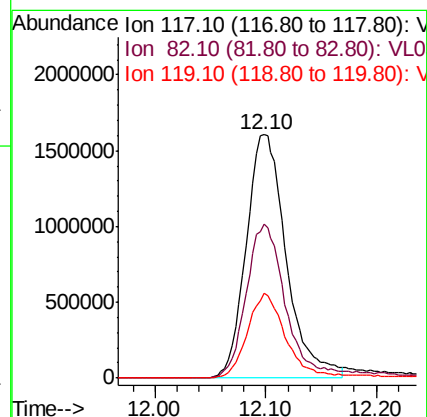
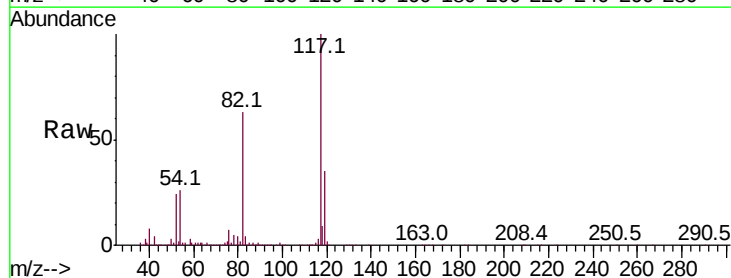
Tgt Ion: 117 Resp: 4047073

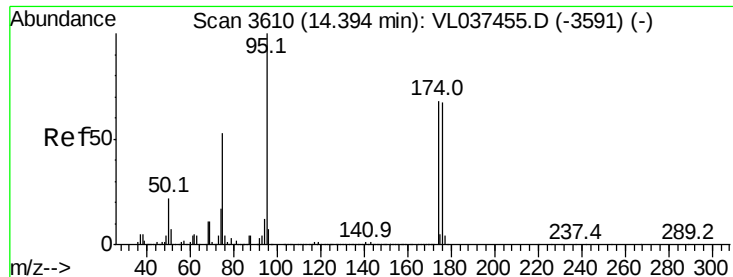
Ion Ratio Lower Upper

117 100

82 67.1 52.9 79.3

119 35.3 24.8 37.2

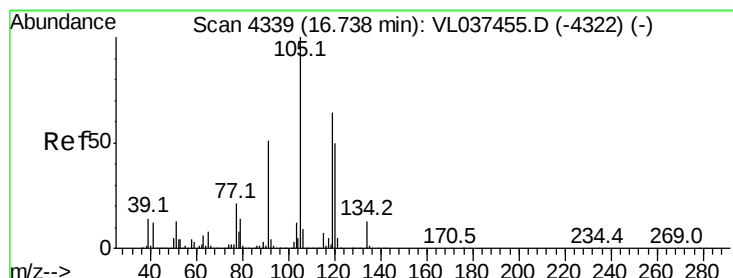
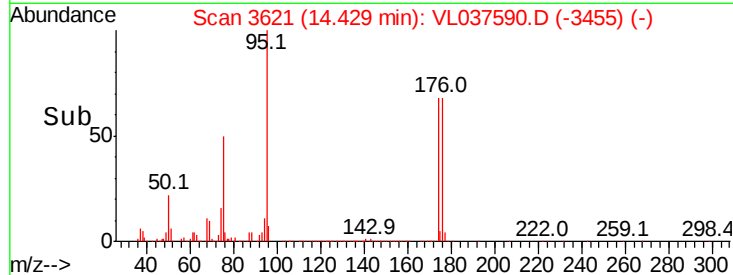
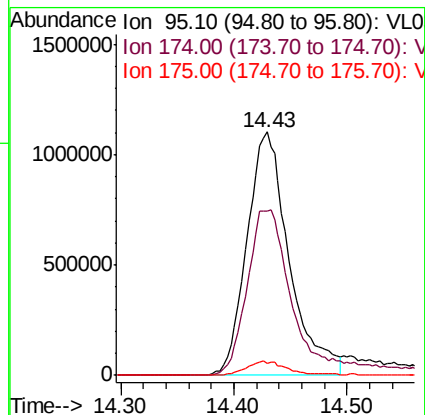
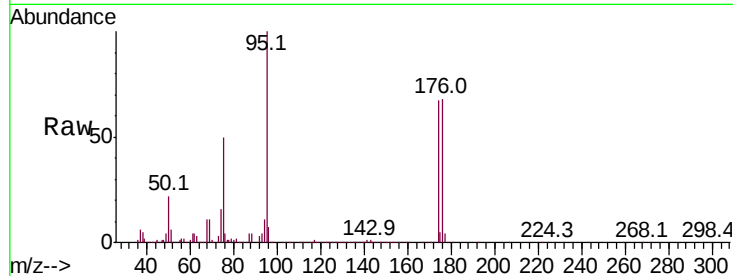




#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.926 ppbv
 RT: 14.43 min Scan# 3621
 Delta R.T. 0.04 min
 Lab File: VL037590.D
 Acq: 9 Sep 2021 3:17

Instrument :
 MSVOA_L
 ClientSampled :
 SV-4DL

Tot Ion: 95 Resp: 2854084
 Ion Ratio Lower Upper
 95 100
 174 78.9 59.6 89.4
 175 6.2 4.6 7.0



#74
 1,2,4-Trimethylbenzene
 Concen: 0.129 ppbv
 RT: 16.78 min Scan# 4351
 Delta R.T. 0.04 min
 Lab File: VL037590.D
 Acq: 9 Sep 2021 3:17

Tgt Ion: 105 Resp: 68718
 Ion Ratio Lower Upper
 105 100
 120 43.0 40.4 60.6
 91 8.8 44.6 67.0#
 77 10.0 17.8 26.6#

