

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091621\
 Data File : VL037626.D
 Acq On : 16 Sep 2021 22:05
 Operator : SY/AP
 Sample : M3780-03
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Sep 17 05:28:58 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	5.65	49	1586785	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	4550471	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	3900966	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	2850785	10.11	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	44150	0.154	ppbv	97
3) Chlorodifluoromethane	2.95	51	385823	1.289	ppbv #	72
4) Chloromethane	3.13	50	130846	1.183	ppbv	95
7) Chloroethane	3.55	64	1691	0.044	ppbv #	70
9) Propene	3.01	41	1153773	10.928	ppbv #	64
10) Heptane	8.10	43	178792	0.726	ppbv	95
11) Trichlorofluoromethane	3.94	101	50185	0.218	ppbv	94
13) Ethanol	3.66	45	42353614	4101.287	ppbv #	6
15) Acetone	3.83	43	11469529	69.569	ppbv	97
16) 1,3-Butadiene	3.30	39	90536	0.879	ppbv #	10
17) tert-Butyl alcohol	4.04	59	388191	2.777	ppbv	100
19) Isopropyl Alcohol	4.04	45	23401013	260.870	ppbv #	93
20) Methylene Chloride	4.33	84	371700	4.723	ppbv	96
21) Allyl Chloride	4.33	41	14308	0.116	ppbv #	22
23) Vinyl Acetate	5.05	43	201667	0.884	ppbv #	7
25) Ethyl Acetate	5.65	43	2697080	6.755	ppbv #	91
26) Hexane	5.67	57	553577	2.919	ppbv #	1
29) Chloroform	5.74	83	2168691	7.830	ppbv	98
30) Cyclohexane	7.11	84	39263	0.242	ppbv #	10
31) cis-1,2-Dichloroethene	5.65	61	141183	0.820	ppbv #	22
34) 2-Butanone	5.23	43	832486	4.502	ppbv	99
35) Carbon Tetrachloride	7.00	117	12520	0.049	ppbv #	88
36) Benzene	6.87	78	469710	1.238	ppbv #	95
39) 1,2-Dichloropropane	7.16	63	1053727	7.250	ppbv #	27
40) 1,4-Dioxane	7.83	88	1098	0.031	ppbv #	1
41) Tetrahydrofuran	6.04	42	122429	1.408	ppbv #	60
44) 2,2,4-Trimethylpentane	7.85	57	556603	0.873	ppbv #	89
50) 4-Methyl-2-Pentanone	8.72	43	34152	0.146	ppbv #	38
51) 2-Hexanone	10.12	43	16598	0.160	ppbv #	1
52) Tetrachloroethene	11.19	164	9825	0.067	ppbv #	64
53) Toluene	9.78	91	2414057	5.724	ppbv	99
58) Ethyl Benzene	12.69	91	628524	1.214	ppbv	98
59) m/p-Xylene	12.94	91	2217851	4.915	ppbv	98
60) o-Xylene	13.67	91	751916	1.751	ppbv	95
61) Styrene	13.51	104	350272	1.654	ppbv	94
64) n-propylbenzene	15.54	120	5266	0.034	ppbv #	1
66) Benzyl Chloride	16.74	91	51557	1.744	ppbv #	69
69) p-Isopropyltoluene	17.63	119	331086	0.552	ppbv #	91
71) 2-Chlorotoluene	15.54	91	99484	0.231	ppbv #	44
72) 4-Ethyltoluene	15.82	105	75759	0.154	ppbv #	44
73) 1,3,5-Trimethylbenzene	15.97	105	130799	0.285	ppbv	86

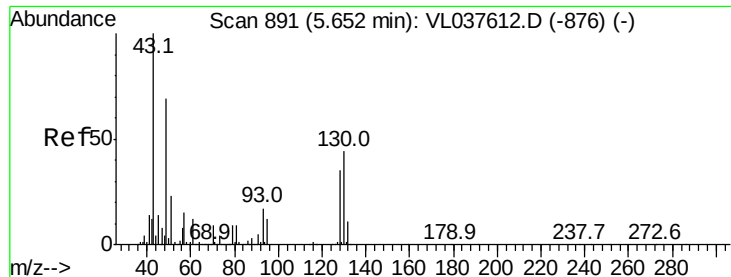
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091621\
Data File : VL037626.D
Acq On : 16 Sep 2021 22:05
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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091621AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep 16 13:42:46 2021
QLast Update : Thu Sep 16 13:42:46 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
74) 1,2,4-Trimethylbenzene	16.74	105	497960	1.029	ppbv #	72
76) 1,4-Dichlorobenzene	17.11	146	101849	0.343	ppbv #	76
79) Naphthalene	22.16	128	105683	0.356	ppbv	97
80) Naphthalene,2-methyl-	25.26	142	14856	0.219	ppbv	93

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. 0.00 min

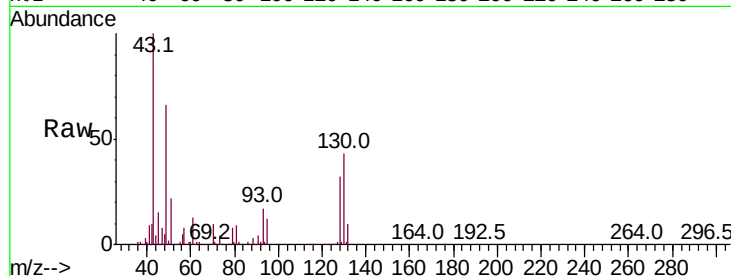
Lab File: VL037626.D

Acq: 16 Sep 2021 22:05

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 49 Resp: 1586785

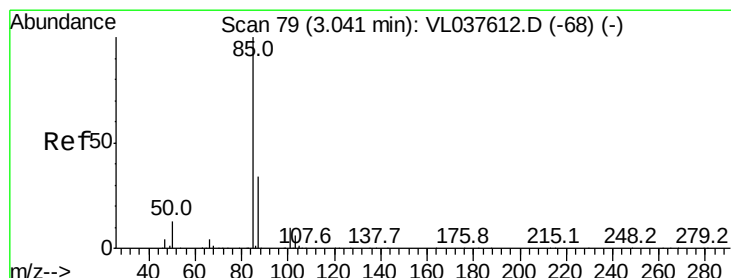
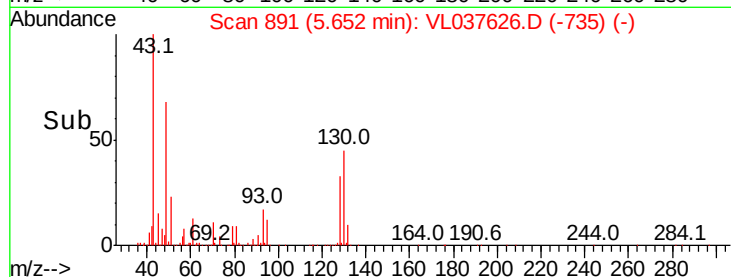
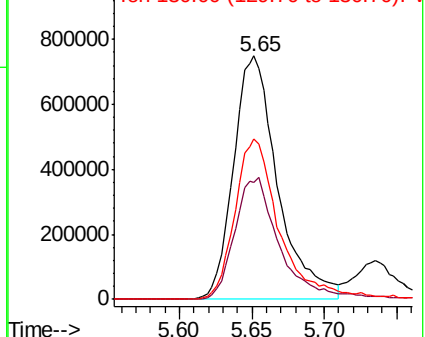
Ion	Ratio	Lower	Upper
49	100		
128	51.9	27.9	83.6
130	67.7	33.9	101.7



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: 0.154 ppbv

RT: 3.04 min Scan# 79

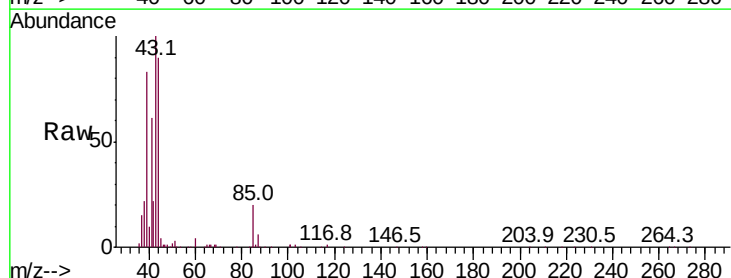
Delta R.T. 0.00 min

Lab File: VL037626.D

Acq: 16 Sep 2021 22:05

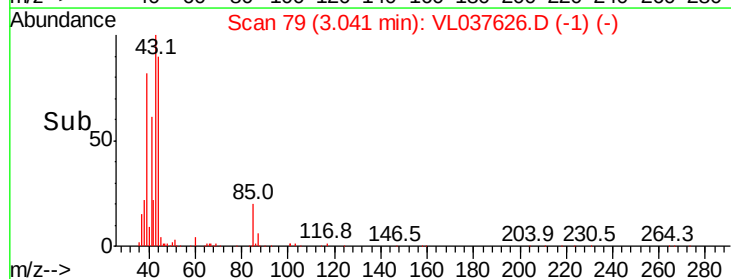
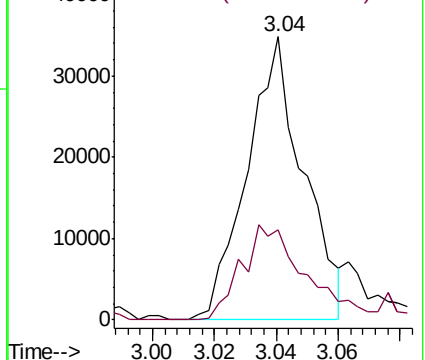
Tgt Ion: 85 Resp: 44150

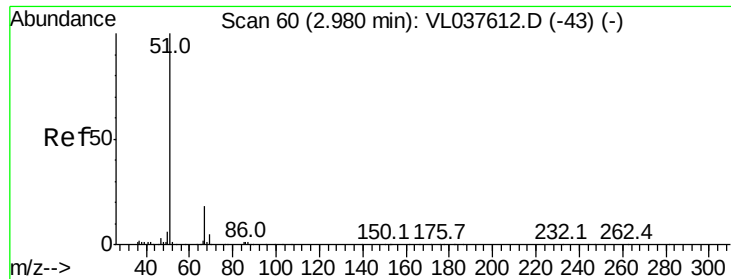
Ion	Ratio	Lower	Upper
85	100		
87	31.8	26.8	40.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.289 ppbv

RT: 2.95 min Scan# 51

Delta R.T. -0.03 min

Lab File: VL037626.D

Acq: 16 Sep 2021 22:05

Instrument :

MSVOA_L

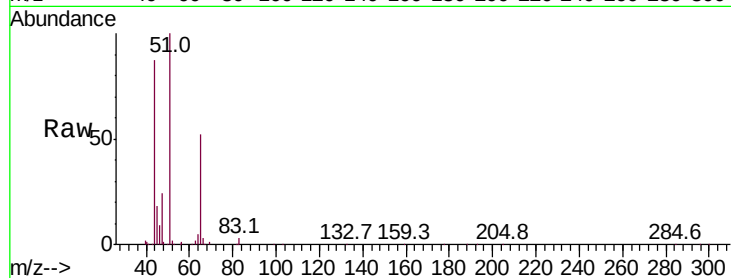
ClientSampled :

Tot Ion: 51 Resp: 385823

Ion Ratio Lower Upper

51 100

67 5.4 14.0 21.0#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

150000

100000

50000

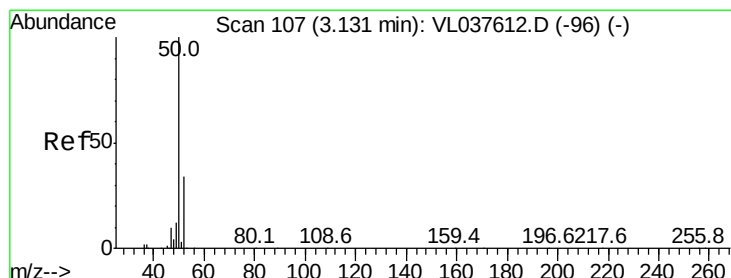
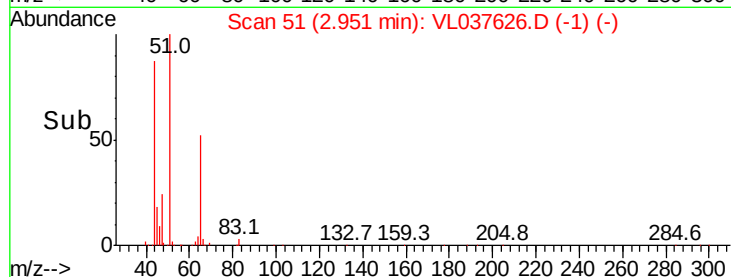
0

2.95

2.80

3.00

Time-->



#4

Chloromethane

Concen: 1.183 ppbv

RT: 3.13 min Scan# 107

Delta R.T. 0.00 min

Lab File: VL037626.D

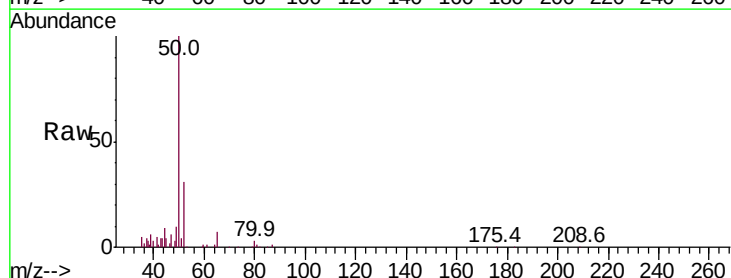
Acq: 16 Sep 2021 22:05

Tgt Ion: 50 Resp: 130846

Ion Ratio Lower Upper

50 100

52 30.8 27.1 40.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

80000

60000

40000

20000

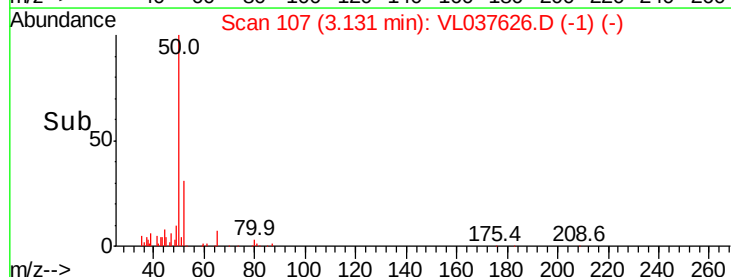
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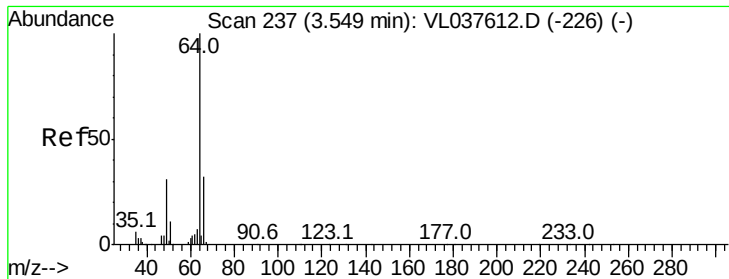
3.13

3.10

3.15

Time-->





#7

Chloroethane

Concen: 0.044 ppbv

RT: 3.55 min Scan# 236

Delta R.T. -0.00 min

Lab File: VL037626.D

Acq: 16 Sep 2021 22:05

Instrument :

MSVOA_L

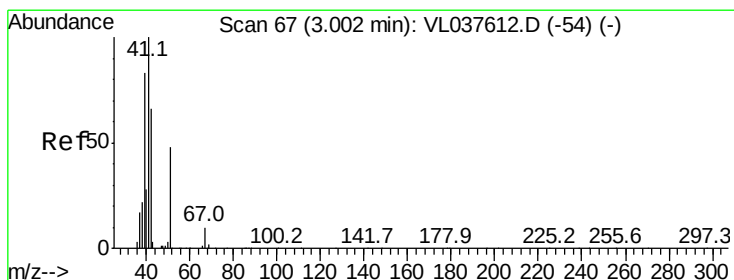
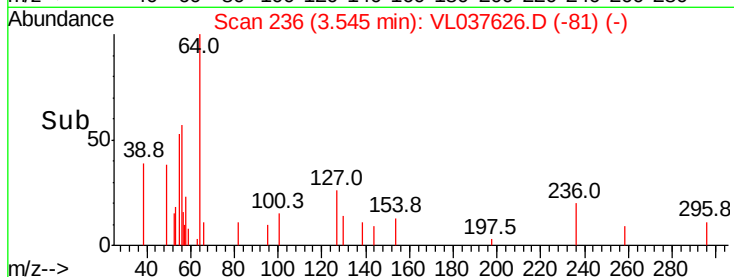
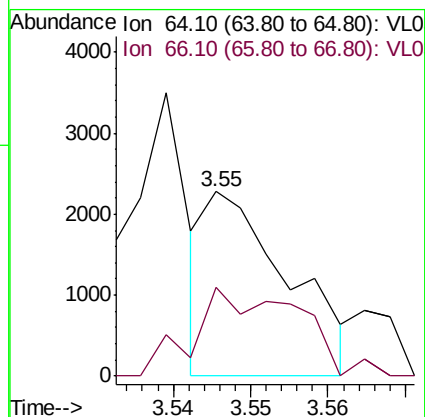
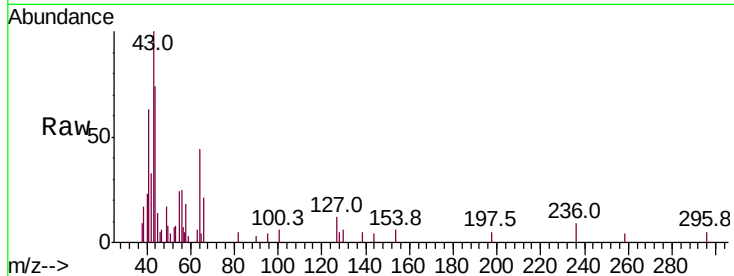
ClientSampleId :

Tot Ion: 64 Resp: 1691

Ion Ratio Lower Upper

64 100

66 48.3 25.3 37.9#



#9

Propene

Concen: 10.928 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.01 min

Lab File: VL037626.D

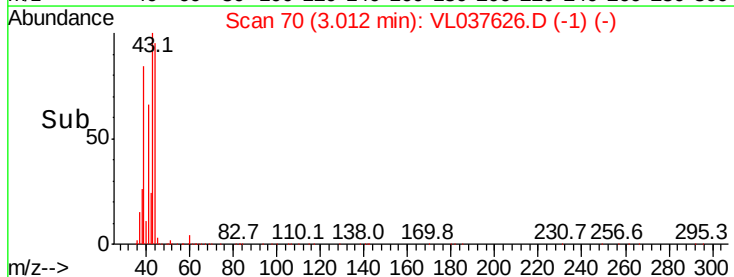
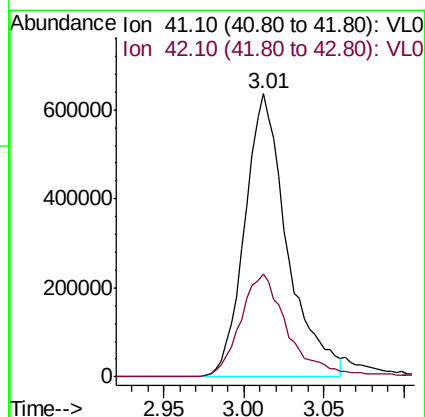
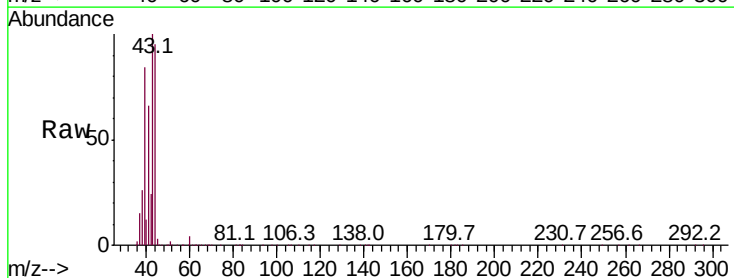
Acq: 16 Sep 2021 22:05

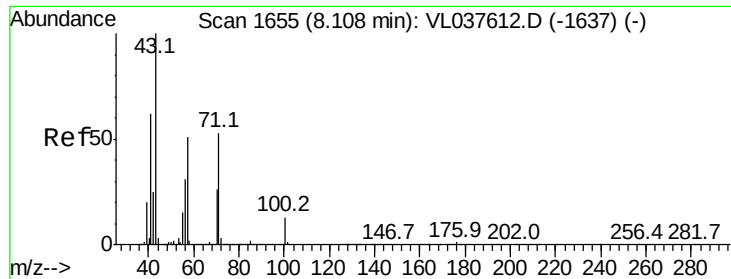
Tgt Ion: 41 Resp: 1153773

Ion Ratio Lower Upper

41 100

42 41.9 57.2 85.8#

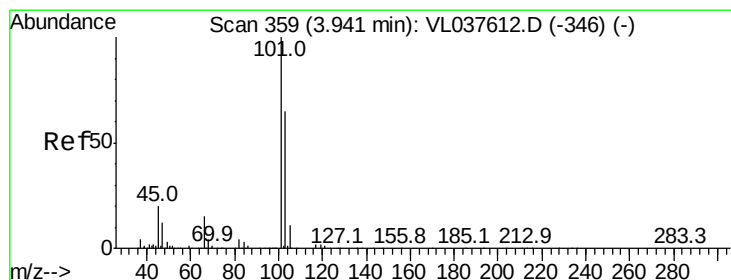
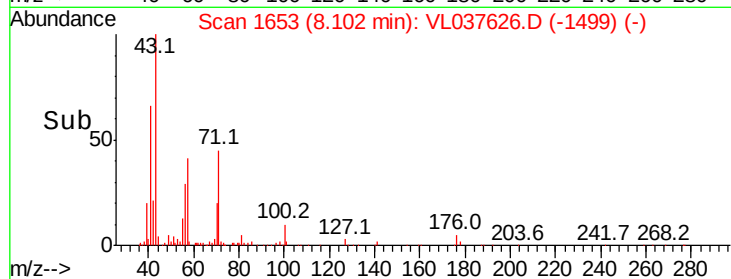
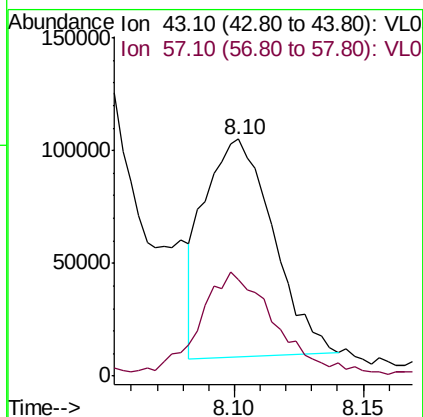
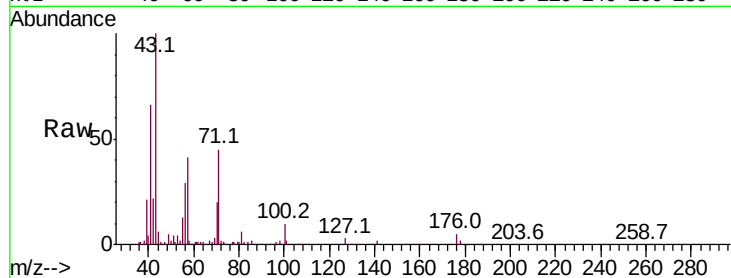




#10
 Heptane
 Concen: 0.726 ppbv
 RT: 8.10 min Scan# 1653
 Delta R.T. -0.01 min
 Lab File: VL037626.D
 Acq: 16 Sep 2021 22:05

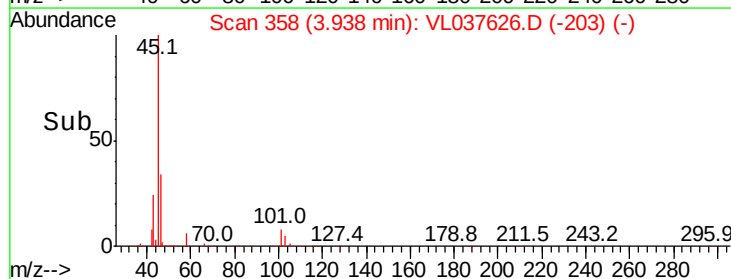
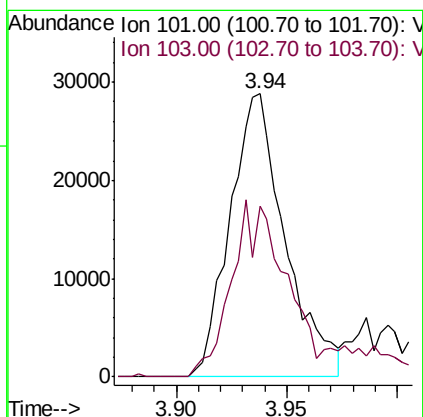
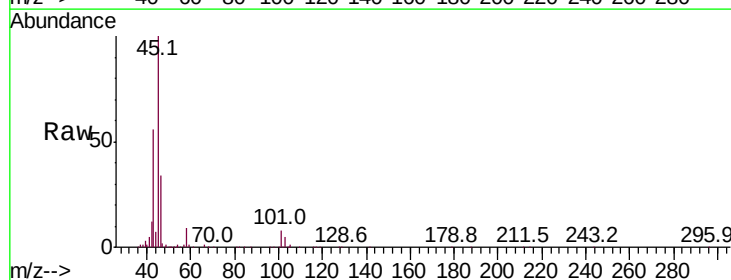
Instrument :
 MSVOA_L
 ClientSampled :

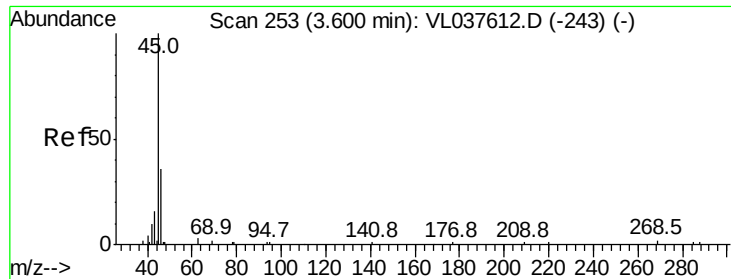
Tot Ion: 43 Resp: 178792
 Ion Ratio Lower Upper
 43 100
 57 53.4 40.1 60.1



#11
 Trichlorofluoromethane
 Concen: 0.218 ppbv
 RT: 3.94 min Scan# 358
 Delta R.T. -0.00 min
 Lab File: VL037626.D
 Acq: 16 Sep 2021 22:05

Tgt Ion:101 Resp: 50185
 Ion Ratio Lower Upper
 101 100
 103 60.4 51.9 77.9

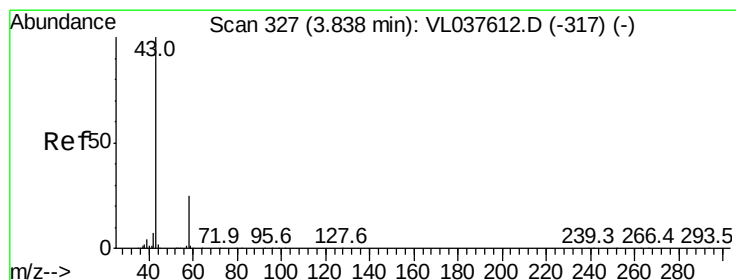
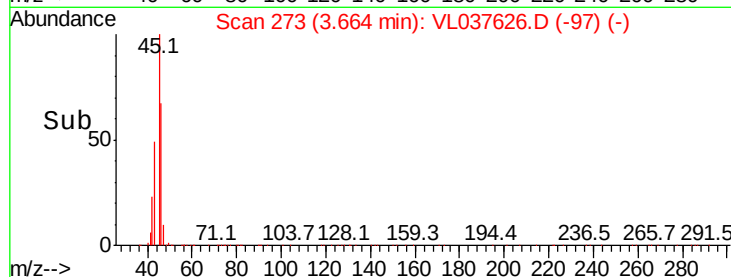
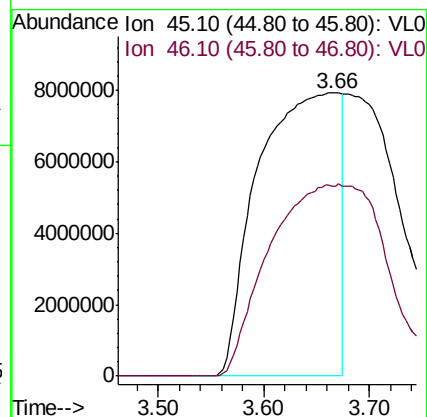
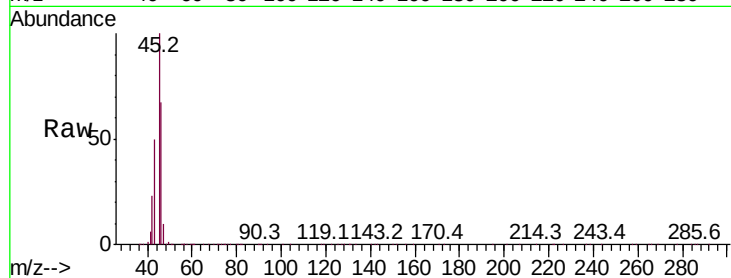




#13
Ethanol
Concen: 4101.287 ppbv
RT: 3.66 min Scan# 273
Delta R.T. 0.06 min
Lab File: VL037626.D
Acq: 16 Sep 2021 22:05

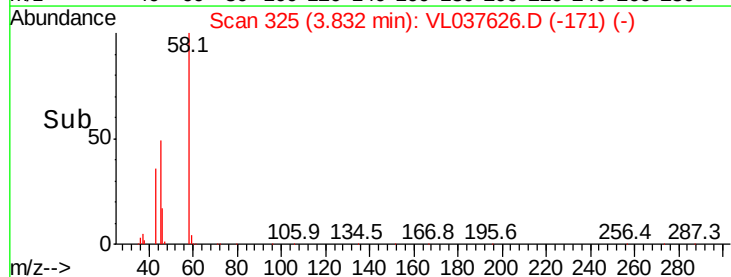
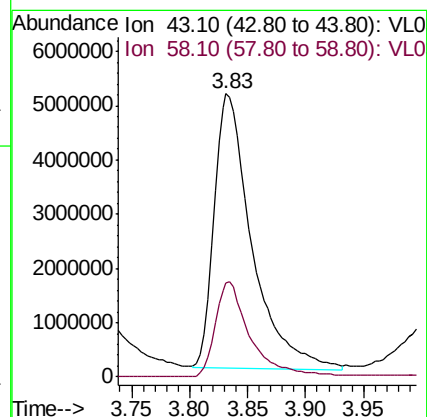
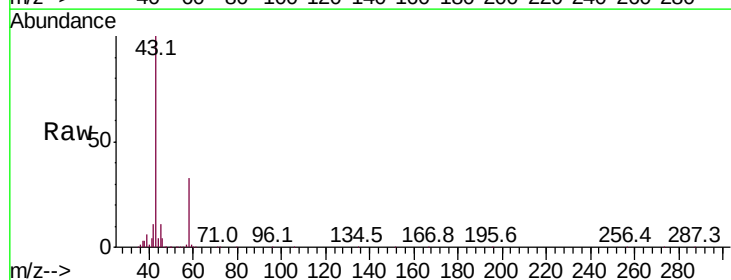
Instrument :
MSVOA_L
ClientSampleId :

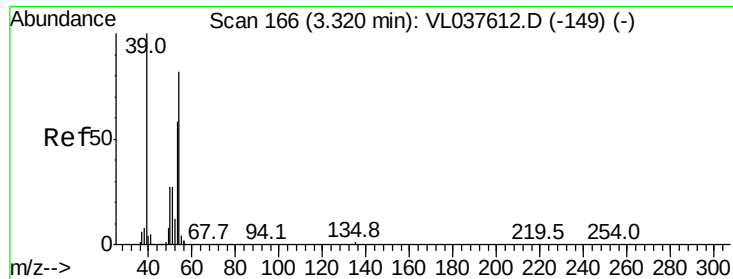
Tot Ion: 45 Resp:42353614
Ion Ratio Lower Upper
45 100
46 102.9 17.2 68.8#



#15
Acetone
Concen: 69.569 ppbv
RT: 3.83 min Scan# 325
Delta R.T. -0.01 min
Lab File: VL037626.D
Acq: 16 Sep 2021 22:05

Tgt Ion: 43 Resp:11469529
Ion Ratio Lower Upper
43 100
58 32.5 24.9 37.3

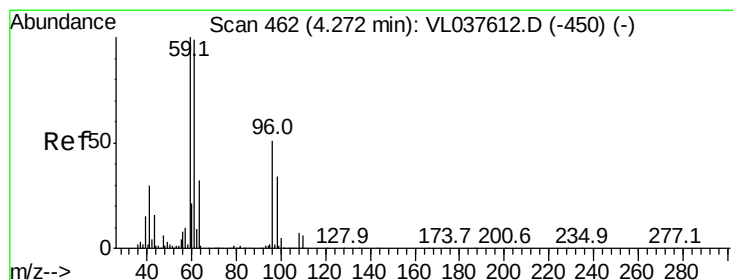
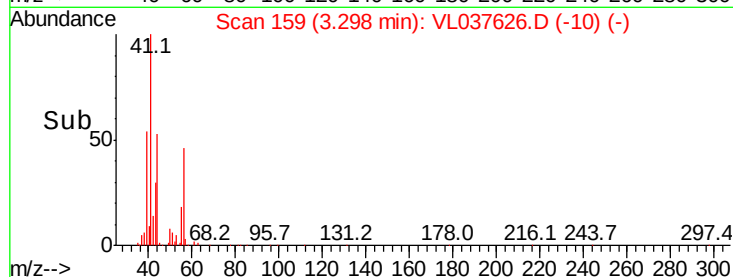
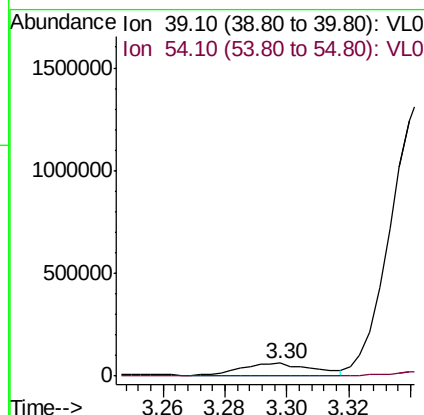
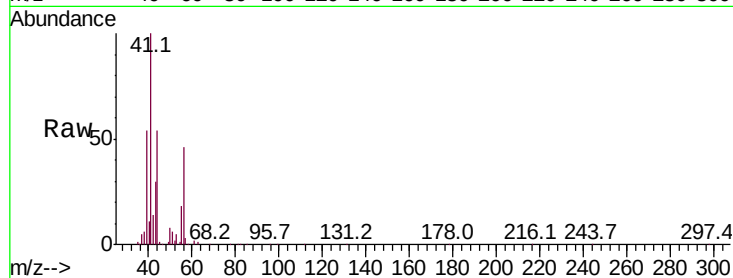




#16
 1,3-Butadiene
 Concen: 0.879 ppbv
 RT: 3.30 min Scan# 159
 Delta R.T. -0.02 min
 Lab File: VL037626.D
 Acq: 16 Sep 2021 22:05

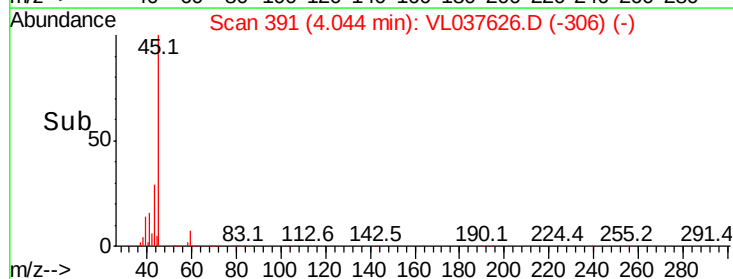
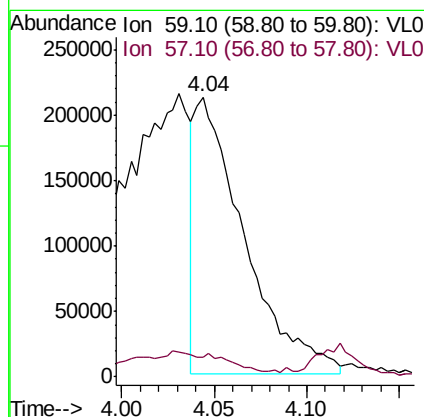
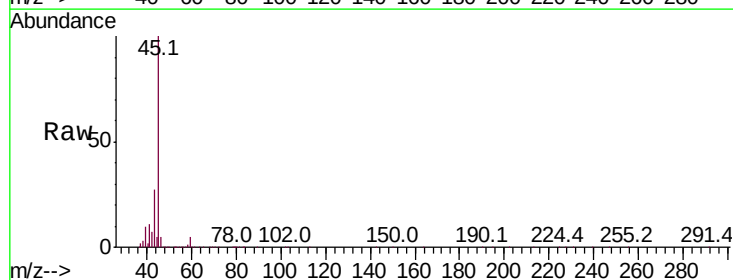
Instrument :
 MSVOA_L
 ClientSampleId :

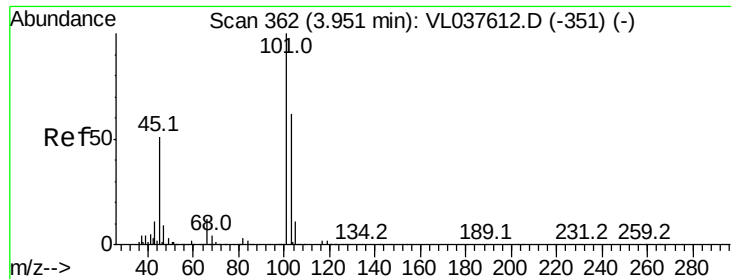
Tot Ion: 39 Resp: 90536
 Ion Ratio Lower Upper
 39 100
 54 0.0 62.6 93.8#



#17
 tert-Butyl alcohol
 Concen: 2.777 ppbv
 RT: 4.04 min Scan# 391
 Delta R.T. -0.23 min
 Lab File: VL037626.D
 Acq: 16 Sep 2021 22:05

Tgt Ion: 59 Resp: 388191
 Ion Ratio Lower Upper
 59 100
 57 10.6 8.4 12.6





#19

Isopropyl Alcohol

Concen: 260.870 ppbv

RT: 4.04 min Scan# 389

Delta R.T. 0.09 min

Lab File: VL037626.D

Acq: 16 Sep 2021 22:05

Instrument :

MSVOA_L

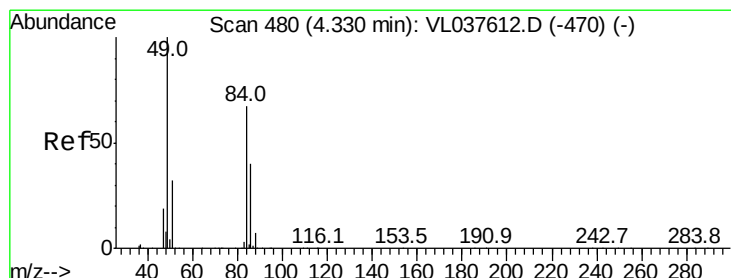
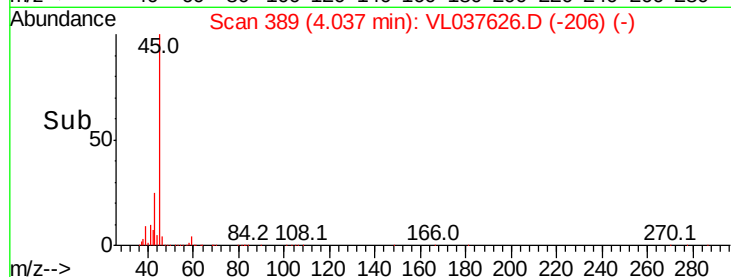
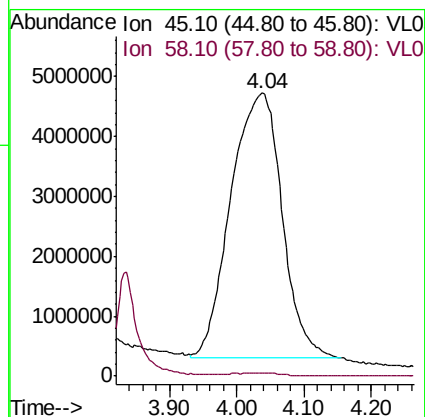
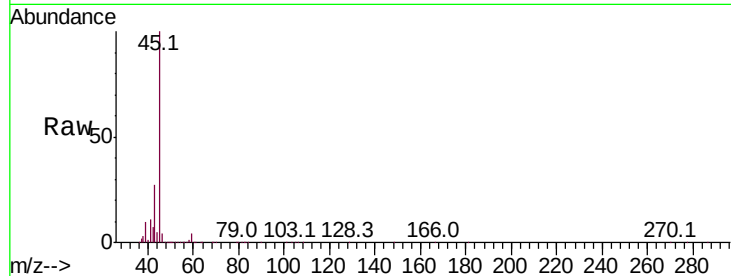
ClientSampled :

Tot Ion: 45 Resp: 23401013

Ion Ratio Lower Upper

45 100

58 1.3 2.9 4.3#



#20

Methylene Chloride

Concen: 4.723 ppbv

RT: 4.33 min Scan# 480

Delta R.T. 0.00 min

Lab File: VL037626.D

Acq: 16 Sep 2021 22:05

Tgt Ion: 84 Resp: 371700

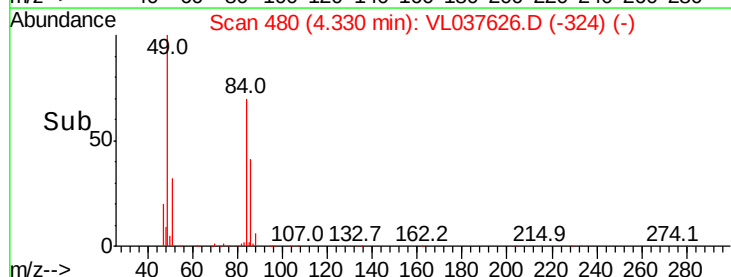
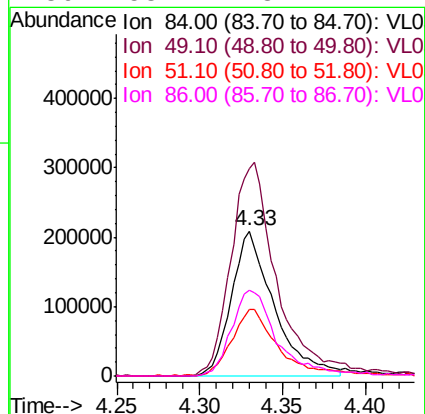
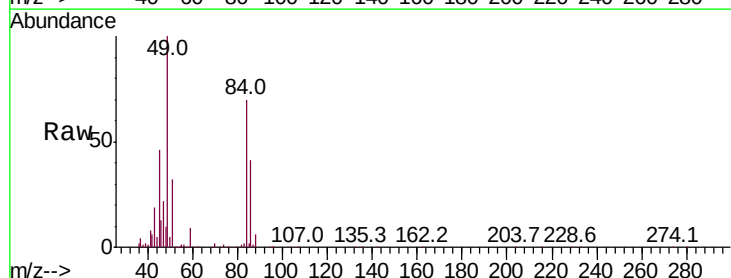
Ion Ratio Lower Upper

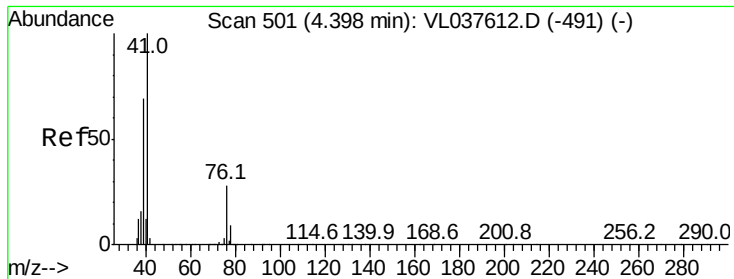
84 100

49 143.2 120.0 180.0

51 45.7 38.0 57.0

86 58.7 48.2 72.2





#21

Allvl Chloride

Concen: 0.116 ppbv

RT: 4.33 min Scan# 480

Delta R.T. -0.07 min

Lab File: VL037626.D

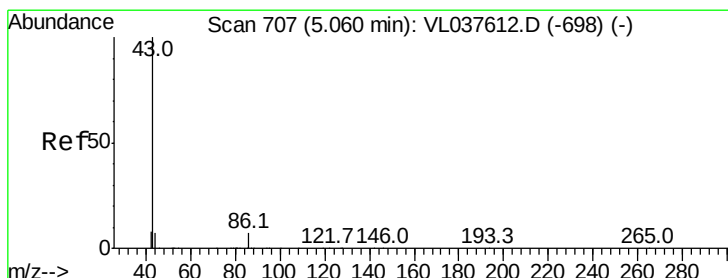
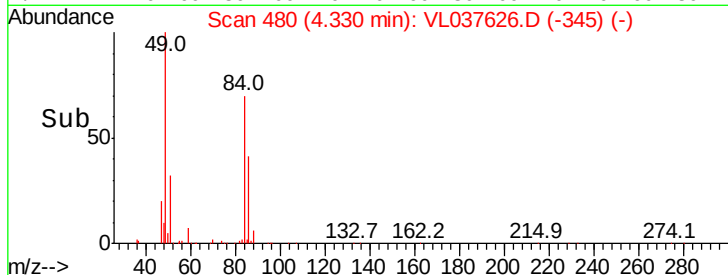
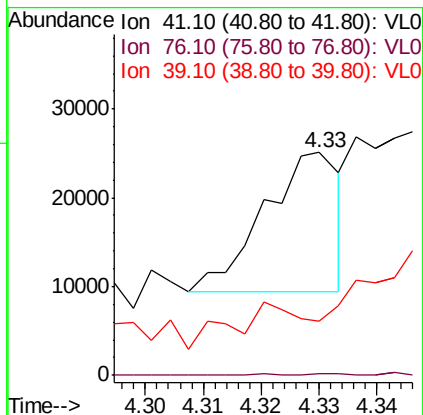
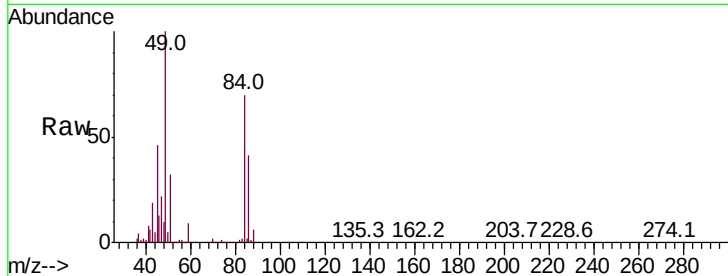
Acq: 16 Sep 2021 22:05

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:	41	Resp:	14308
Ion	Ratio	Lower	Upper
41	100		
76	2.1	23.1	34.7#
39	0.0	61.0	91.6#



#23

Vinyl Acetate

Concen: 0.884 ppbv

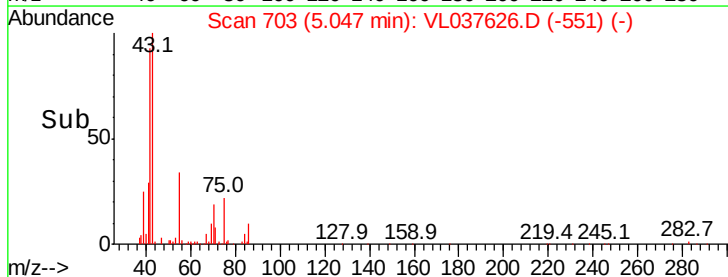
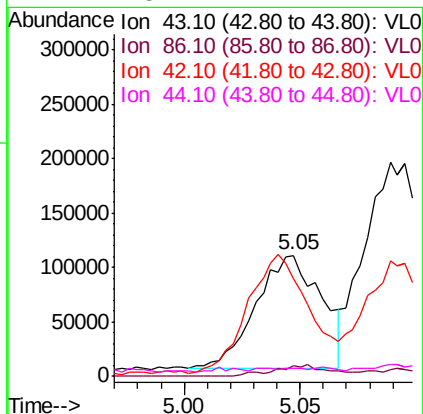
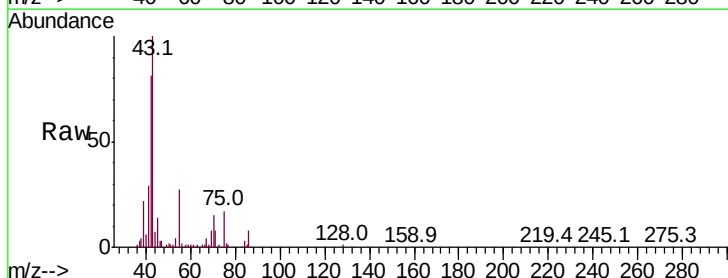
RT: 5.05 min Scan# 703

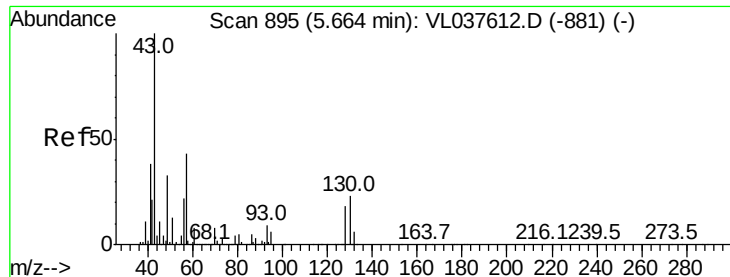
Delta R.T. -0.01 min

Lab File: VL037626.D

Acq: 16 Sep 2021 22:05

Tgt Ion:	43	Resp:	201667
Ion	Ratio	Lower	Upper
43	100		
86	8.6	5.0	7.6#
42	83.9	7.5	11.3#
44	3.1	4.7	7.1#





#25

Ethyl Acetate

Concen: 6.755 ppbv

RT: 5.65 min Scan# 892

Delta R.T. -0.01 min

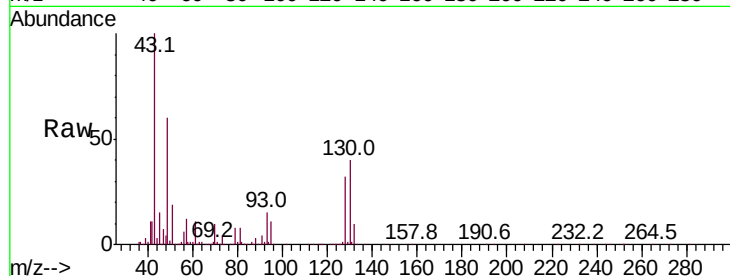
Lab File: VL037626.D

Acq: 16 Sep 2021 22:05

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 2697080

Ion	Ratio	Lower	Upper
43	100		
45	15.1	8.0	12.0#
61	11.6	7.5	11.3#
70	8.7	5.6	8.4#



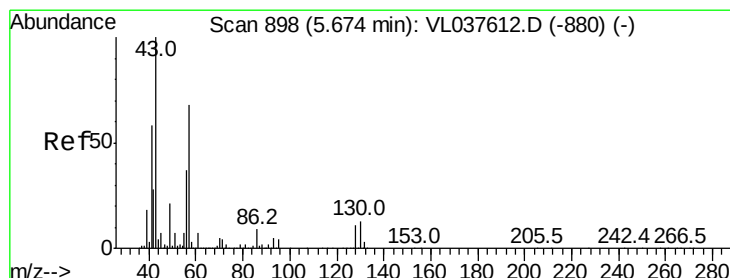
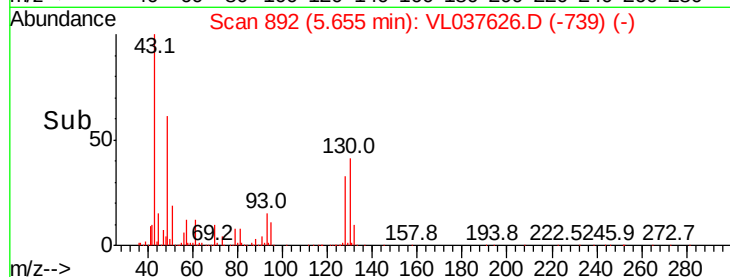
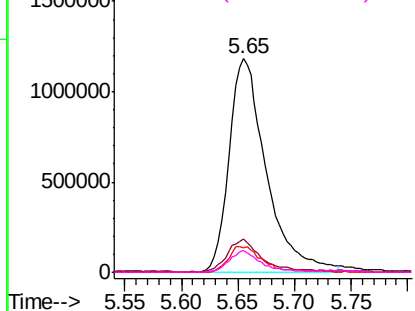
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 2.919 ppbv

RT: 5.67 min Scan# 897

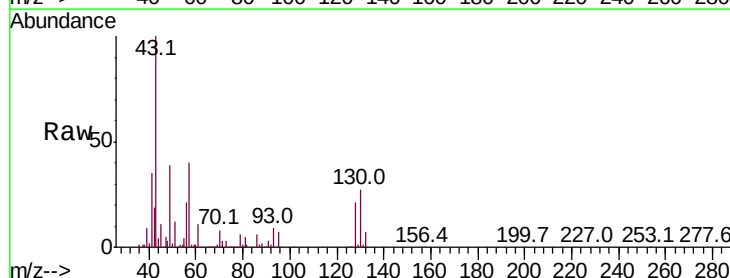
Delta R.T. -0.00 min

Lab File: VL037626.D

Acq: 16 Sep 2021 22:05

Tgt Ion: 57 Resp: 553577

Ion	Ratio	Lower	Upper
57	100		
41	99.7	70.9	106.3
43	499.2	170.4	255.6#
56	59.1	42.6	64.0



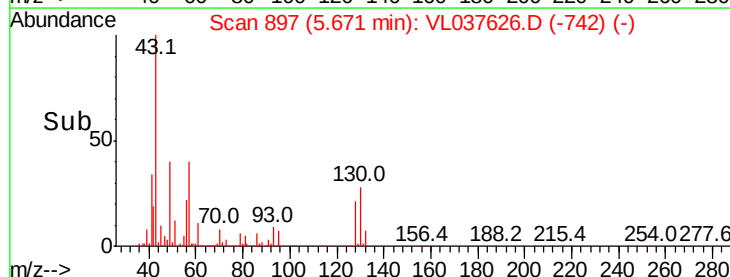
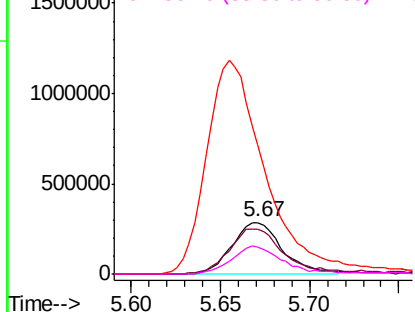
Abundance

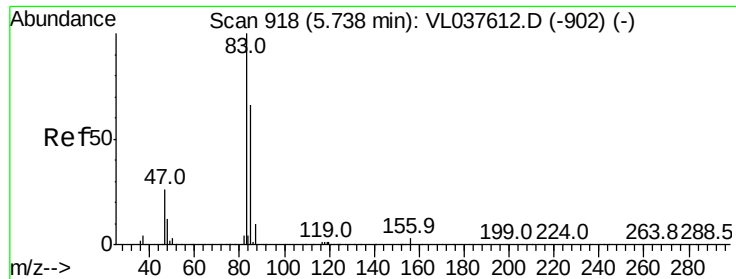
Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0

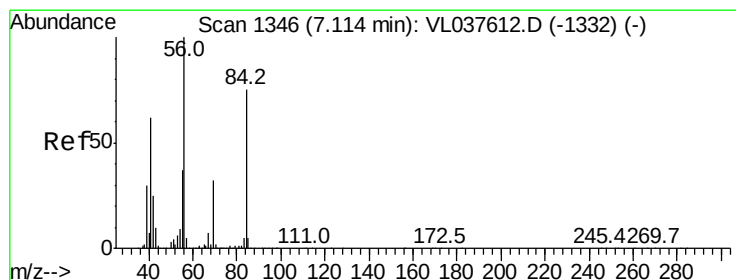
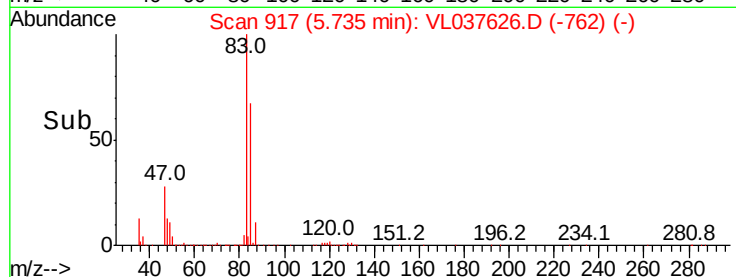
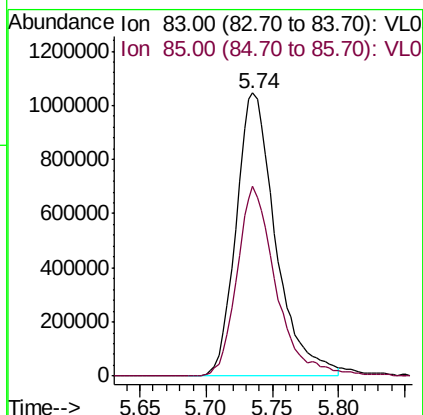
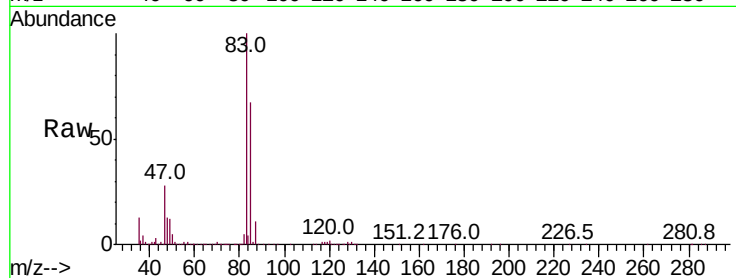




#29
Chloroform
Concen: 7.830 ppbv
RT: 5.74 min Scan# 917
Delta R.T. -0.00 min
Lab File: VL037626.D
Acq: 16 Sep 2021 22:05

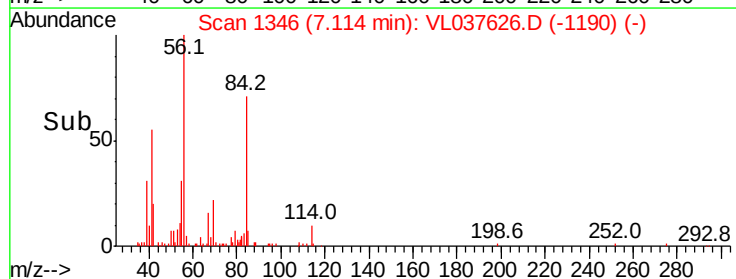
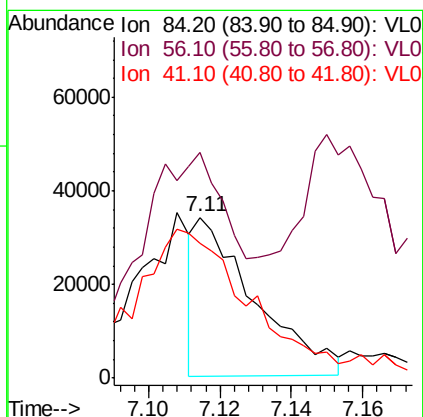
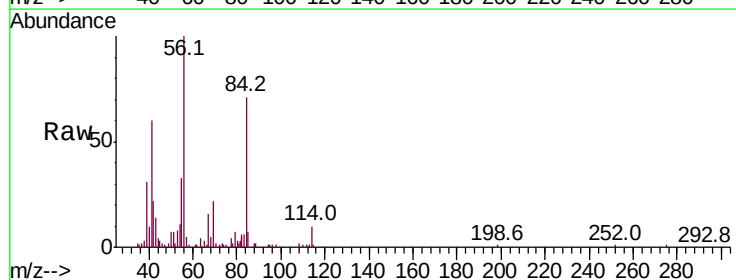
Instrument :
MSVOA_L
ClientSampleId :

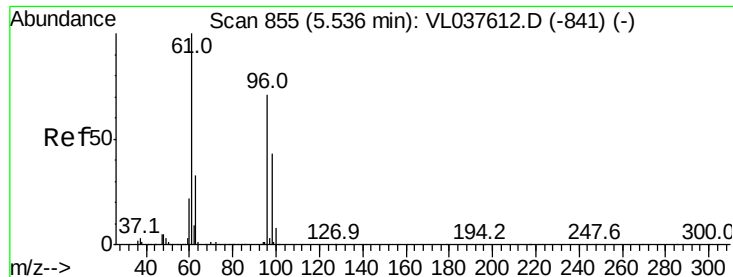
Tot Ion: 83 Resp: 2168691
Ion Ratio Lower Upper
83 100
85 67.1 52.6 79.0



#30
Cyclohexane
Concen: 0.242 ppbv
RT: 7.11 min Scan# 1346
Delta R.T. 0.00 min
Lab File: VL037626.D
Acq: 16 Sep 2021 22:05

Tgt Ion: 84 Resp: 39263
Ion Ratio Lower Upper
84 100
56 250.2 113.6 170.4#
41 0.0 67.9 101.9#



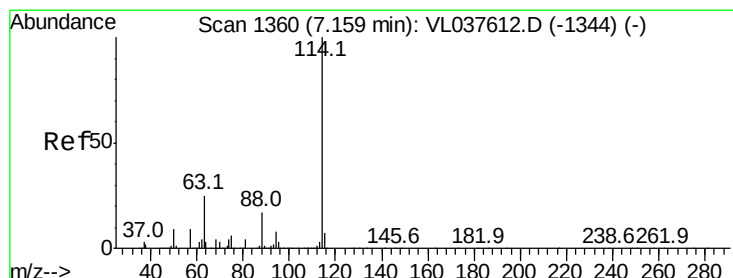
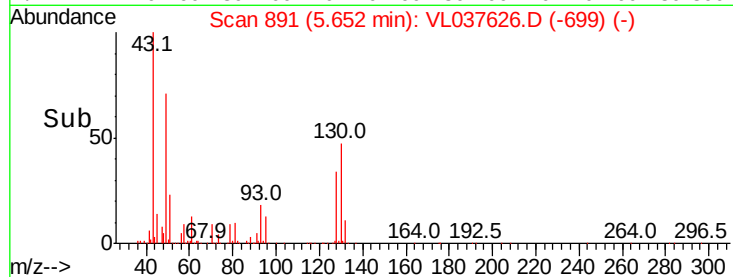
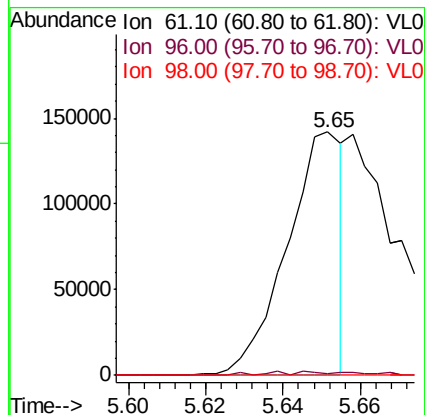
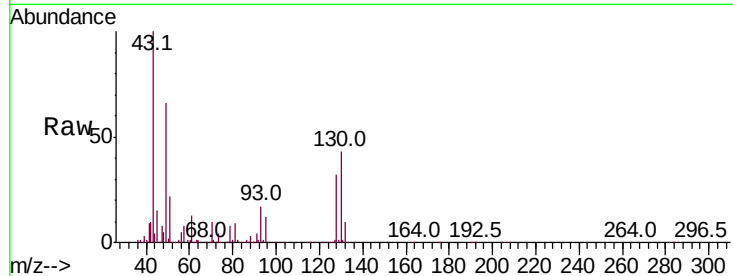


#31

cis-1,2-Dichloroethene
Concen: 0.820 ppbv
RT: 5.65 min Scan# 891
Delta R.T. 0.12 min
Lab File: VL037626.D
Acq: 16 Sep 2021 22:05

Instrument :
MSVOA_L
ClientSampled :

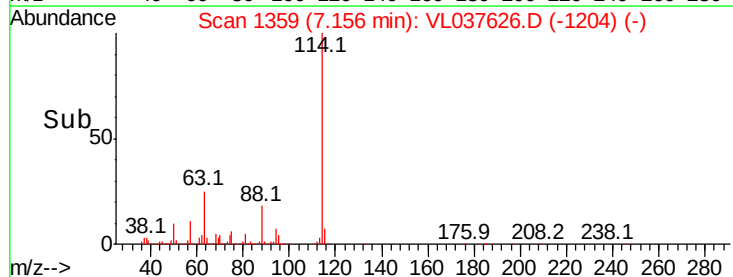
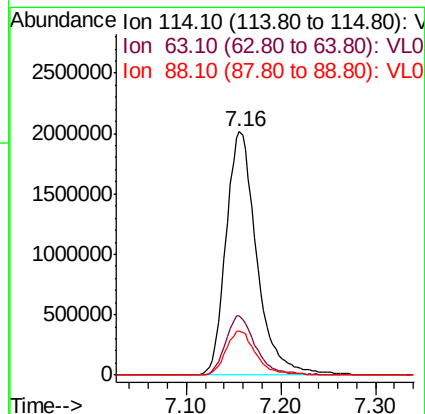
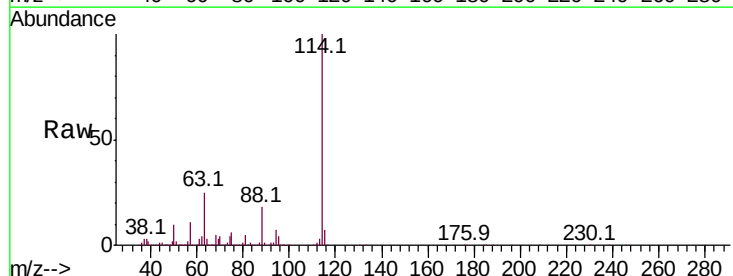
Tot Ion: 61 Resp: 141183
Ion Ratio Lower Upper
61 100
96 0.8 56.7 85.1#
98 0.0 34.6 52.0#

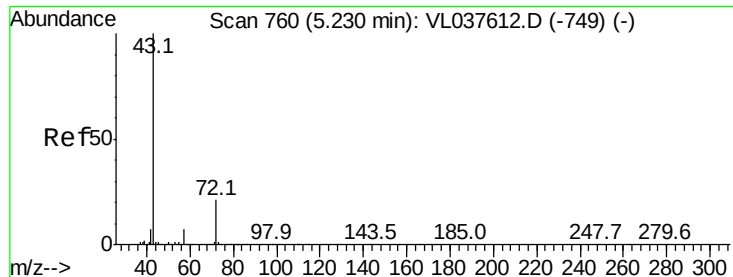


#33

1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1359
Delta R.T. -0.00 min
Lab File: VL037626.D
Acq: 16 Sep 2021 22:05

Tgt Ion: 114 Resp: 4550471
Ion Ratio Lower Upper
114 100
63 24.2 19.6 29.4
88 17.8 14.2 21.4

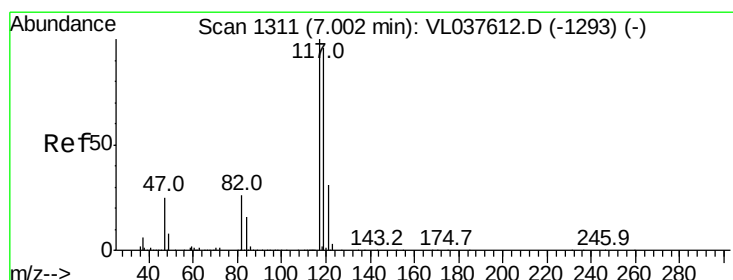
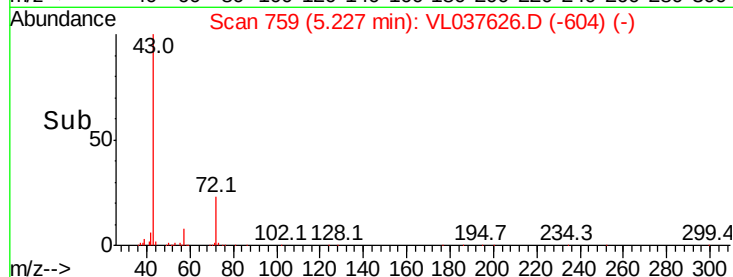
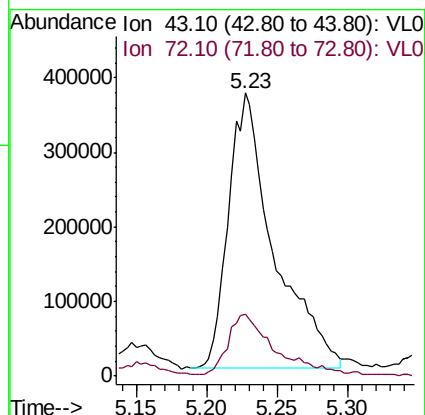
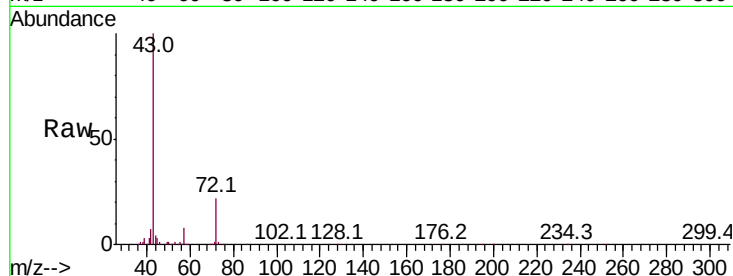




#34
2-Butanone
Concen: 4.502 ppbv
RT: 5.23 min Scan# 759
Delta R.T. -0.00 min
Lab File: VL037626.D
Acq: 16 Sep 2021 22:05

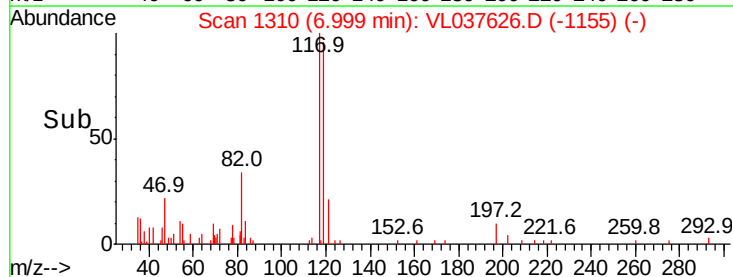
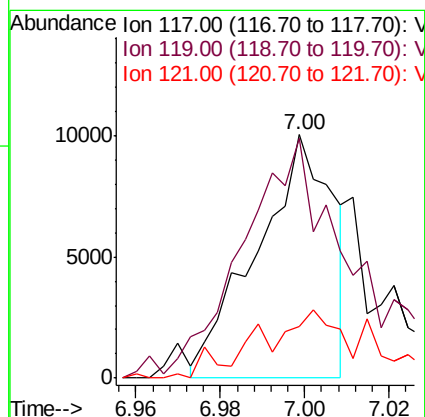
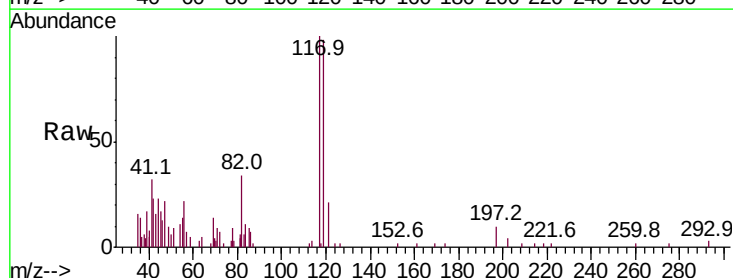
Instrument :
MSVOA_L
ClientSampleId :

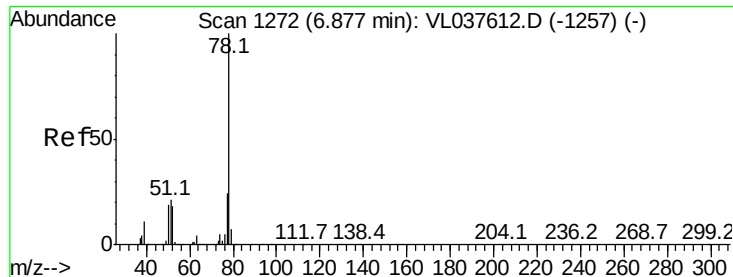
Tot Ion: 43 Resp: 832486
Ion Ratio Lower Upper
43 100
72 23.5 18.4 27.6



#35
Carbon Tetrachloride
Concen: 0.049 ppbv
RT: 7.00 min Scan# 1310
Delta R.T. -0.00 min
Lab File: VL037626.D
Acq: 16 Sep 2021 22:05

Tgt Ion: 117 Resp: 12520
Ion Ratio Lower Upper
117 100
119 85.7 77.0 115.6
121 22.3 24.5 36.7#

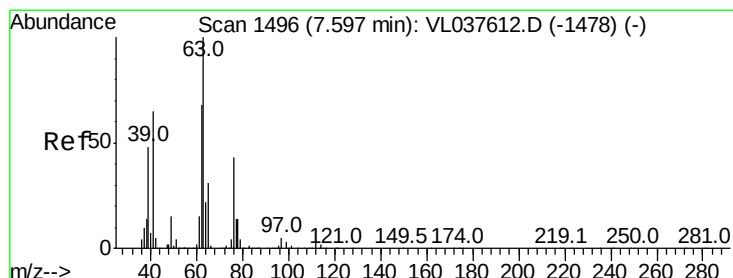
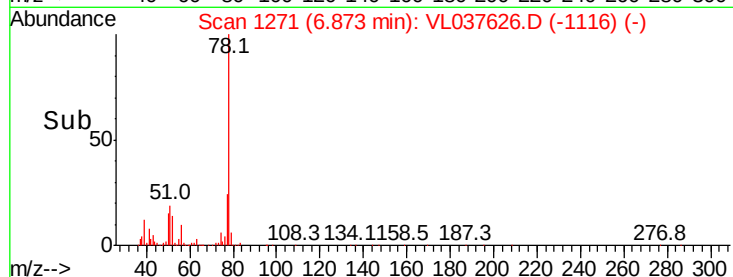
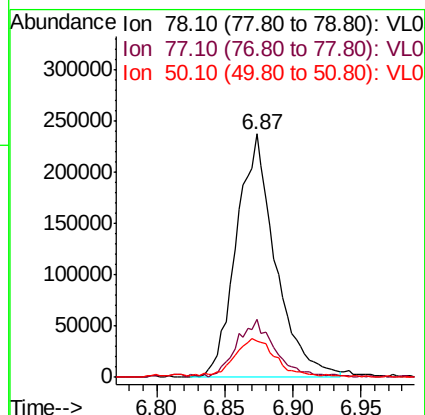
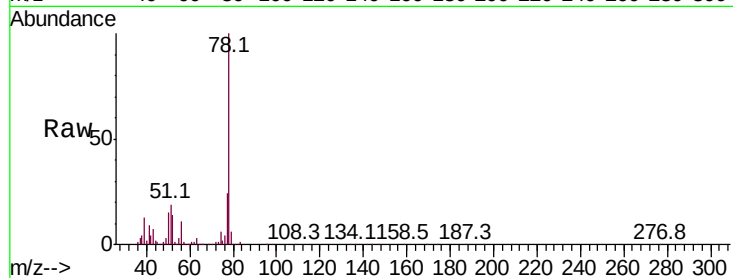




#36
Benzene
Concen: 1.238 ppbv
RT: 6.87 min Scan# 1271
Delta R.T. -0.00 min
Lab File: VL037626.D
Acq: 16 Sep 2021 22:05

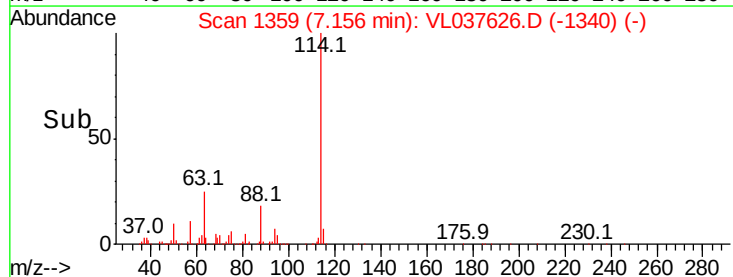
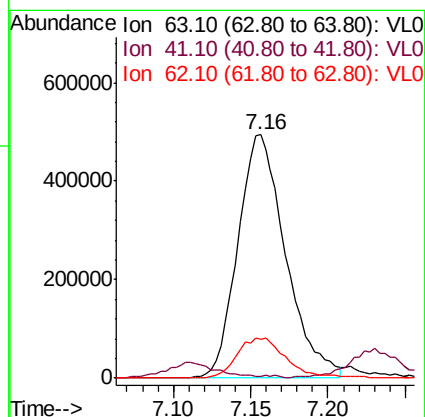
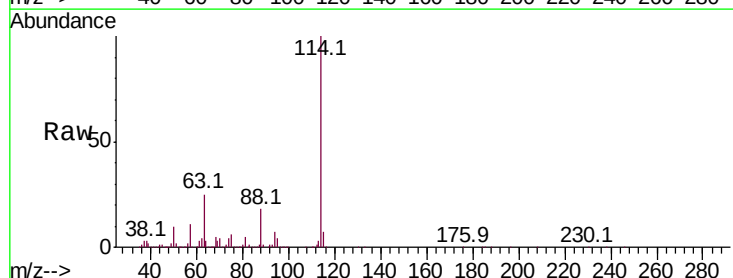
Instrument :
MSVOA_L
ClientSampleId :

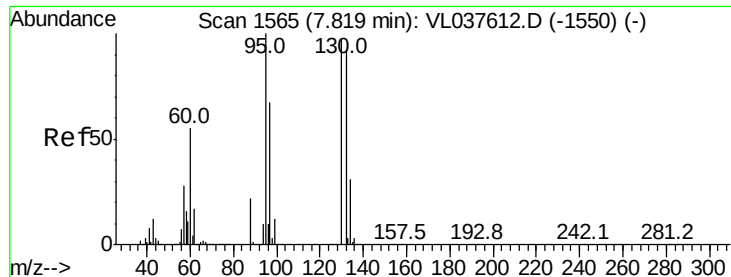
Tot Ion: 78 Resp: 469710
Ion Ratio Lower Upper
78 100
77 22.9 19.0 28.4
50 14.2 14.8 22.2#



#39
1,2-Dichloropropane
Concen: 7.250 ppbv
RT: 7.16 min Scan# 1359
Delta R.T. -0.44 min
Lab File: VL037626.D
Acq: 16 Sep 2021 22:05

Tgt Ion: 63 Resp: 1053727
Ion Ratio Lower Upper
63 100
41 0.0 51.6 77.4#
62 15.4 54.6 81.8#

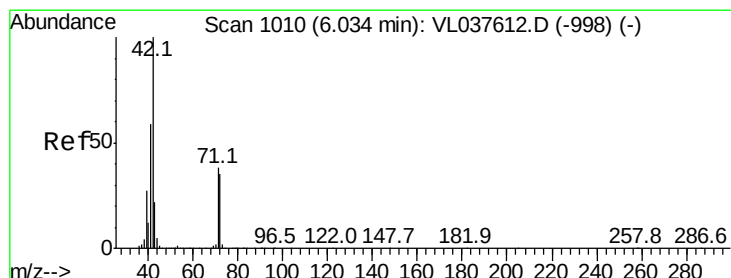
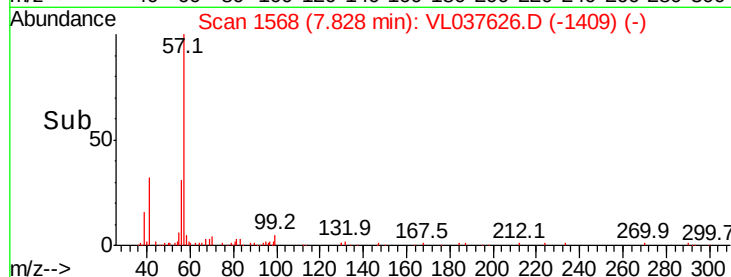
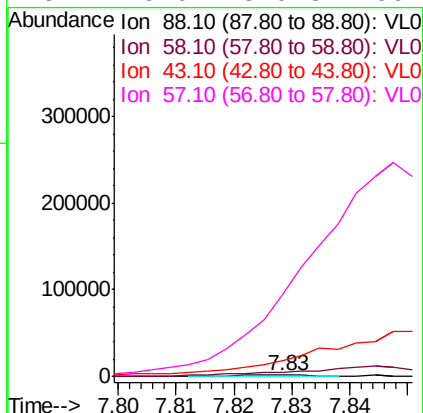
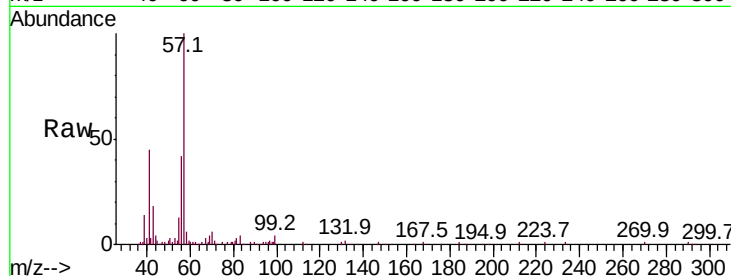




#40
1,4-Dioxane
Concen: 0.031 ppbv
RT: 7.83 min Scan# 1568
Delta R.T. 0.01 min
Lab File: VL037626.D
Acq: 16 Sep 2021 22:05

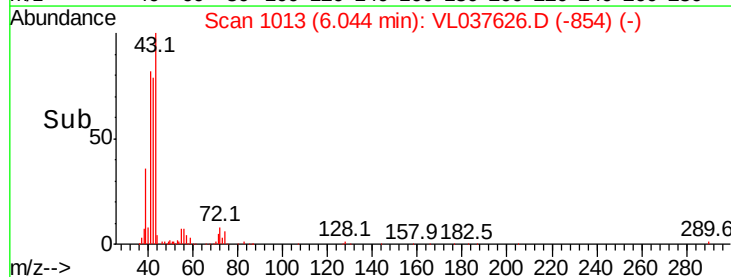
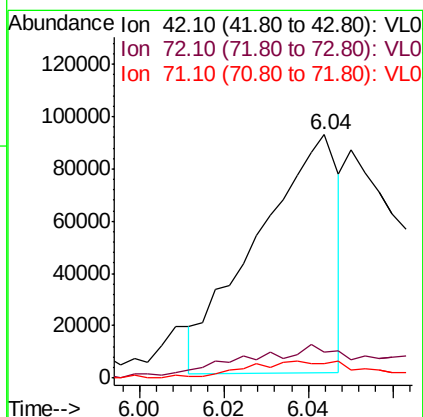
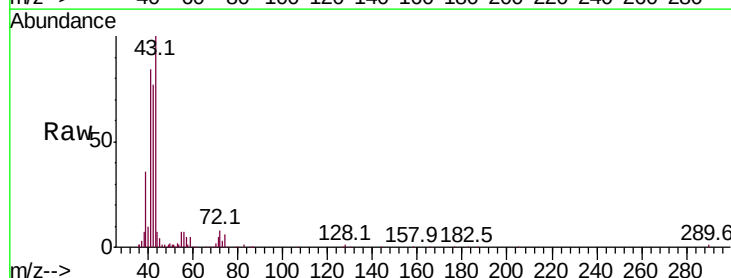
Instrument :
MSVOA_L
ClientSampleId :

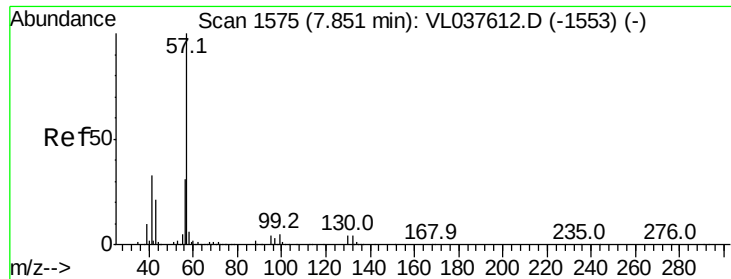
Tot Ion: 88 Resp: 1098
Ion Ratio Lower Upper
88 100
58 0.0 122.4 183.6#
43 0.0 297.4 446.0#
57 0.0 1329.8 1994.8#



#41
Tetrahydrofuran
Concen: 1.408 ppbv
RT: 6.04 min Scan# 1013
Delta R.T. 0.01 min
Lab File: VL037626.D
Acq: 16 Sep 2021 22:05

Tgt Ion: 42 Resp: 122429
Ion Ratio Lower Upper
42 100
72 29.0 31.4 47.2#
71 0.0 30.6 46.0#





#44

2,2,4-Trimethylpentane

Concen: 0.873 ppbv

RT: 7.85 min Scan# 1574

Delta R.T. -0.00 min

Lab File: VL037626.D

Acq: 16 Sep 2021 22:05

Instrument :

MSVOA_L

ClientSampleId :

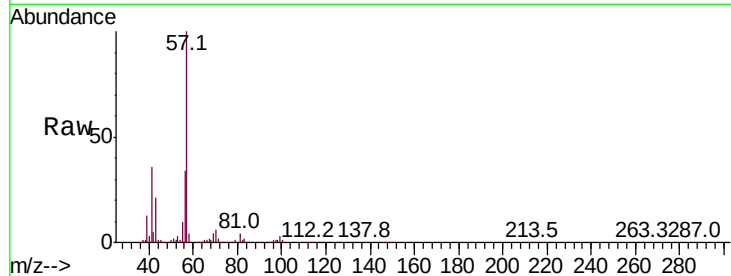
Tot Ion: 57 Resp: 556603

Ion Ratio Lower Upper

57 100

41 37.9 26.1 39.1

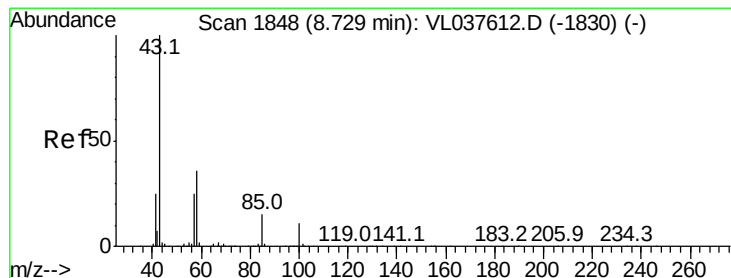
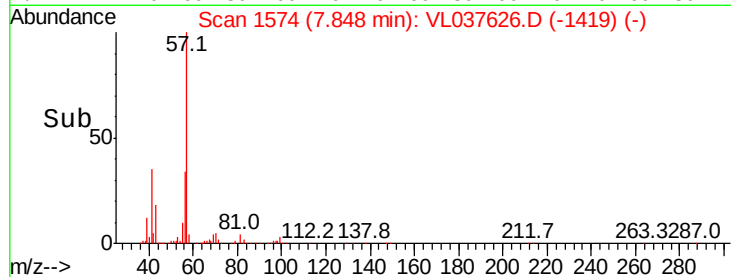
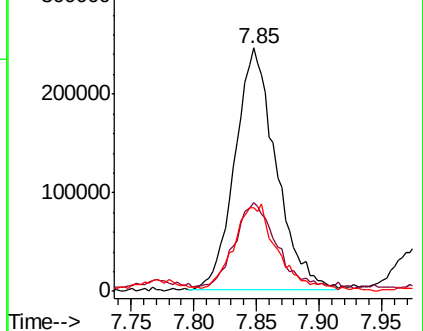
56 38.9 25.7 38.5#



Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#50

4-Methyl-2-Pentanone

Concen: 0.146 ppbv

RT: 8.72 min Scan# 1846

Delta R.T. -0.01 min

Lab File: VL037626.D

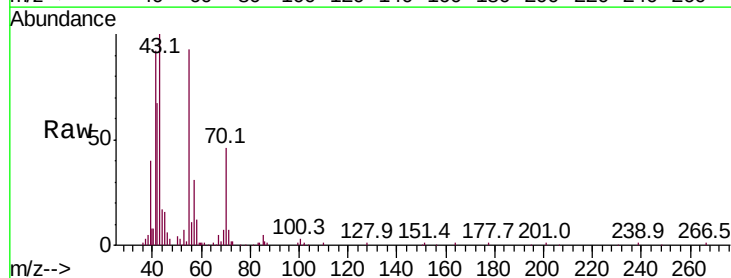
Acq: 16 Sep 2021 22:05

Tgt Ion: 43 Resp: 34152

Ion Ratio Lower Upper

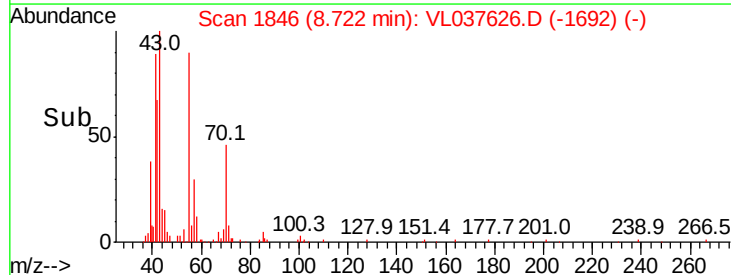
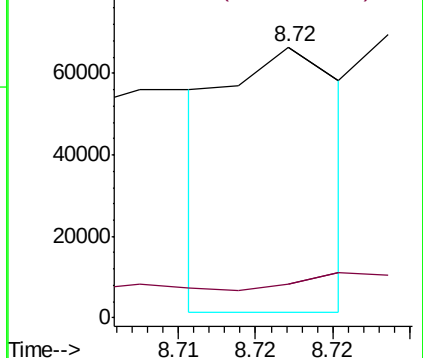
43 100

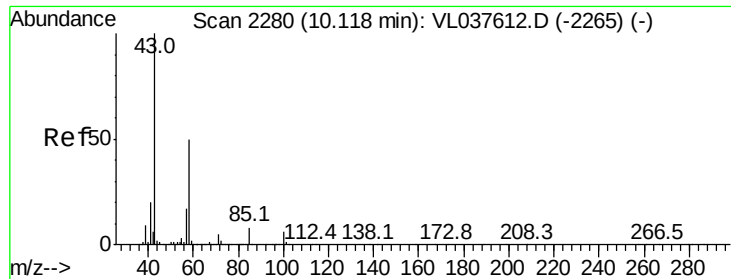
58 0.0 29.4 44.2#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

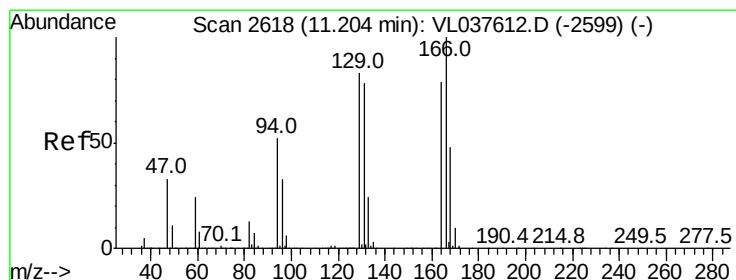
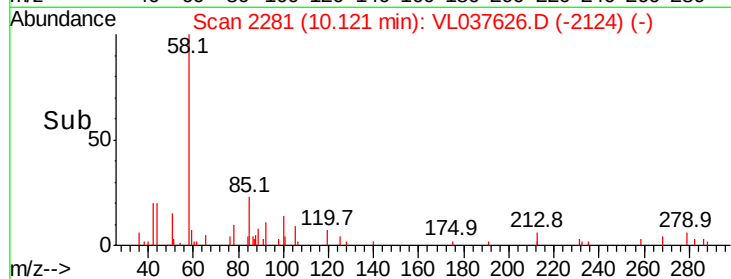
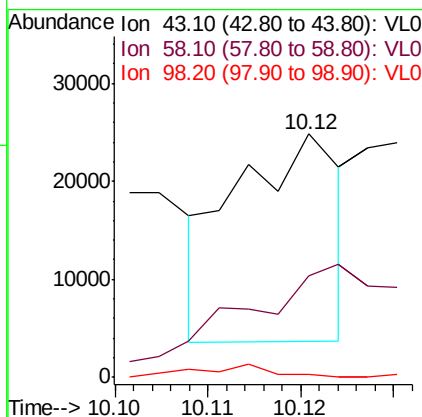
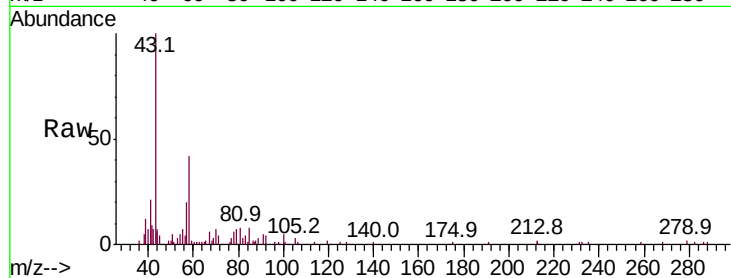




#51
2-Hexanone
Concen: 0.160 ppbv
RT: 10.12 min Scan# 2281
Delta R.T. 0.00 min
Lab File: VL037626.D
Acq: 16 Sep 2021 22:05

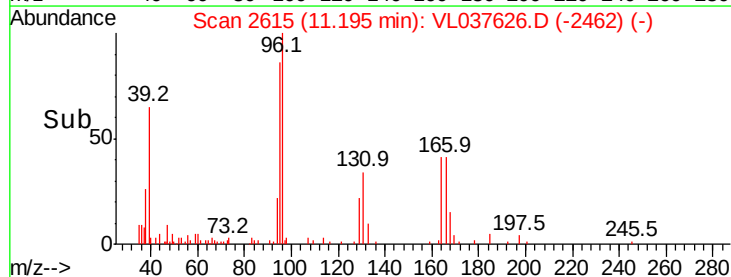
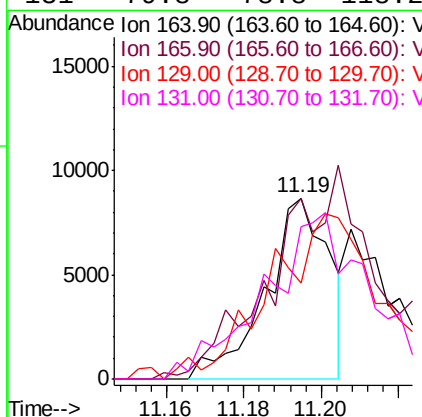
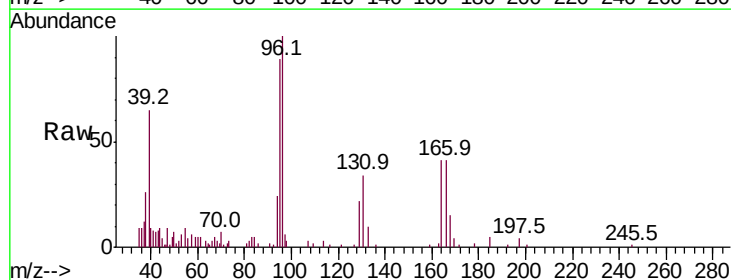
Instrument :
MSVOA_L
ClientSampleId :

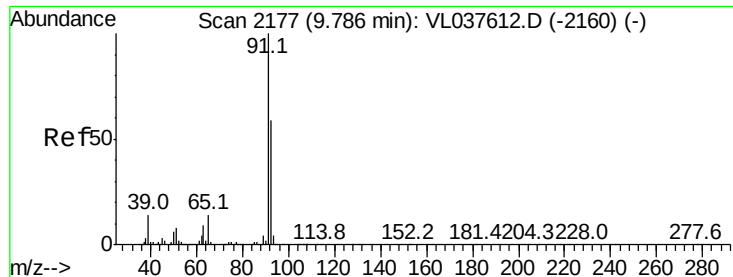
Tot Ion: 43 Resp: 16598
Ion Ratio Lower Upper
43 100
58 153.9 39.3 58.9#
98 8.0 0.4 0.6#



#52
Tetrachloroethene
Concen: 0.067 ppbv
RT: 11.19 min Scan# 2615
Delta R.T. -0.01 min
Lab File: VL037626.D
Acq: 16 Sep 2021 22:05

Tgt Ion: 164 Resp: 9825
Ion Ratio Lower Upper
164 100
166 95.0 101.2 151.8#
129 41.4 84.0 126.0#
131 79.8 78.8 118.2





#53

Toluene

Concen: 5.724 ppbv

RT: 9.78 min Scan# 2176

Delta R.T. -0.00 min

Lab File: VL037626.D

Acq: 16 Sep 2021 22:05

Instrument :

MSVOA_L

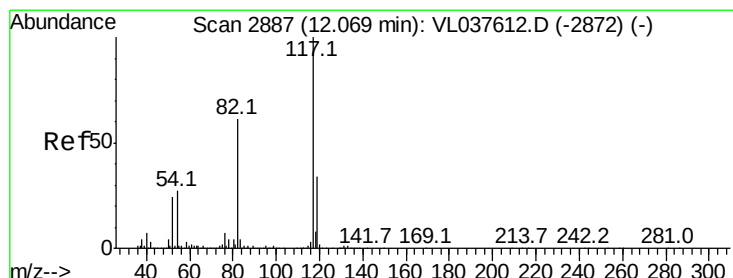
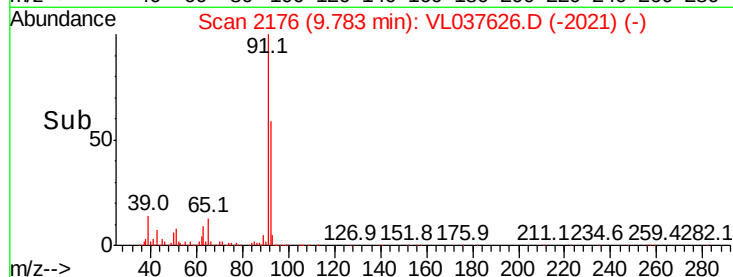
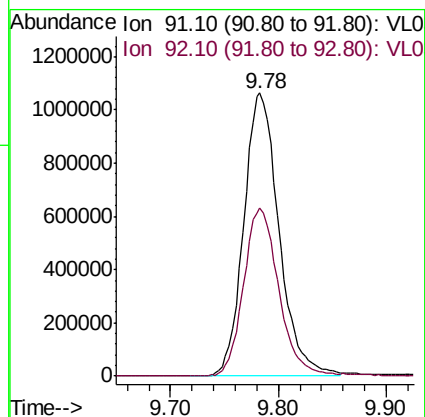
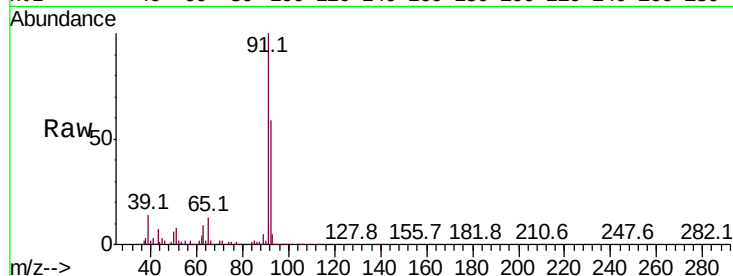
ClientSampleId :

Tot Ion: 91 Resp: 2414057

Ion Ratio Lower Upper

91 100

92 60.1 48.9 73.3



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2886

Delta R.T. -0.00 min

Lab File: VL037626.D

Acq: 16 Sep 2021 22:05

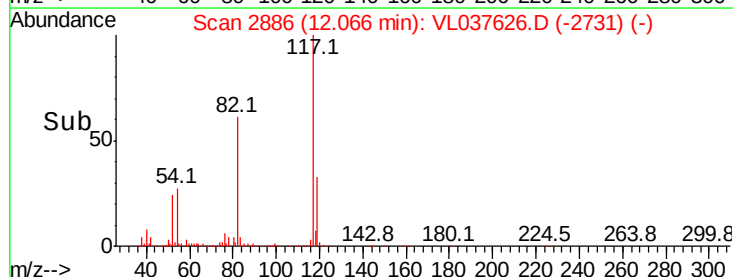
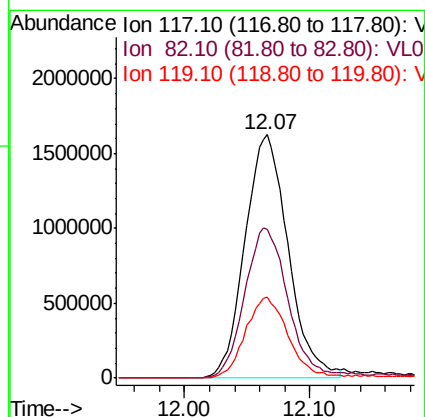
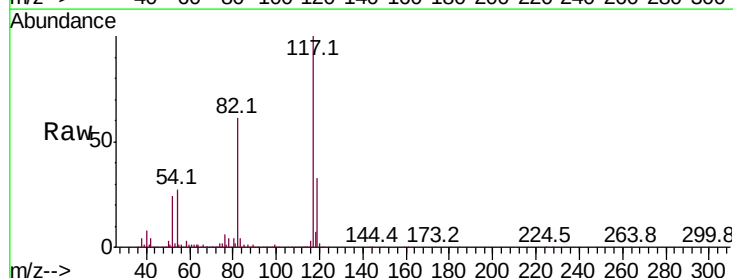
Tgt Ion: 117 Resp: 3900966

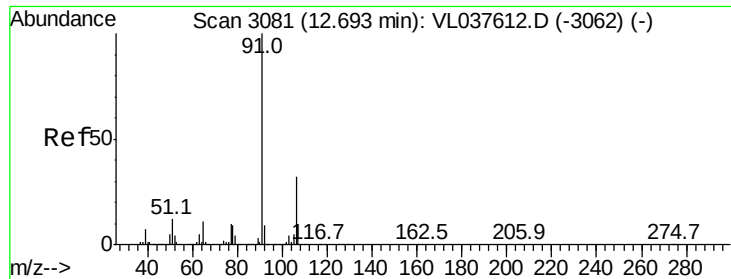
Ion Ratio Lower Upper

117 100

82 65.3 50.6 75.8

119 34.6 26.2 39.2





#58

Ethyl Benzene

Concen: 1.214 ppbv

RT: 12.69 min Scan# 3079

Delta R.T. -0.01 min

Lab File: VL037626.D

Acq: 16 Sep 2021 22:05

Instrument :

MSVOA_L

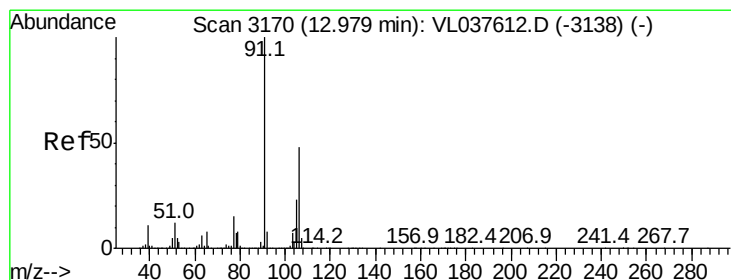
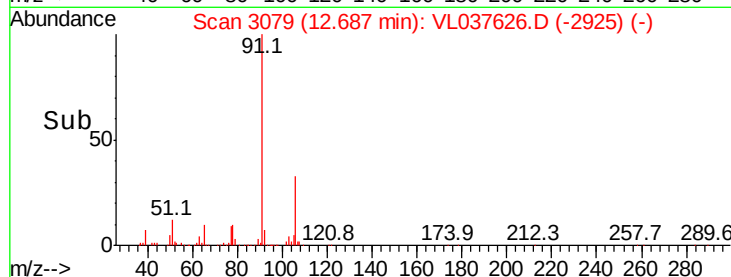
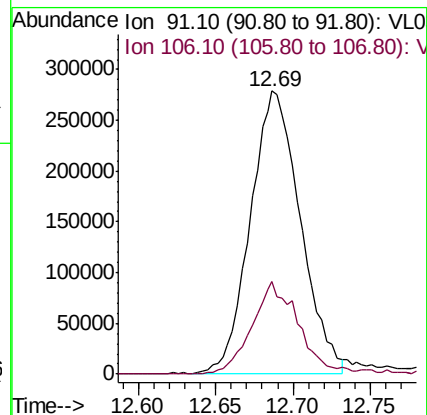
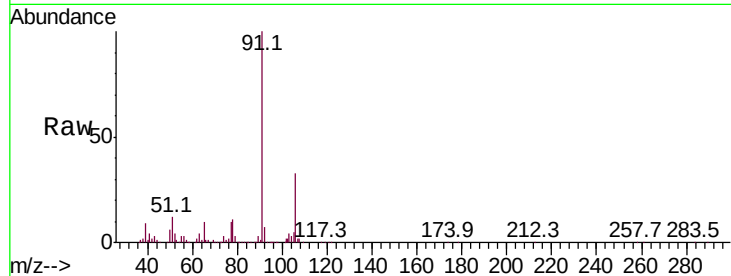
ClientSampleId :

Tot Ion: 91 Resp: 628524

Ion Ratio Lower Upper

91 100

106 32.6 25.3 37.9



#59

m/p-Xylene

Concen: 4.915 ppbv

RT: 12.94 min Scan# 3159

Delta R.T. -0.04 min

Lab File: VL037626.D

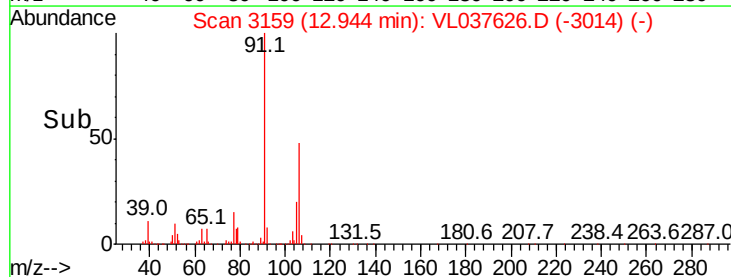
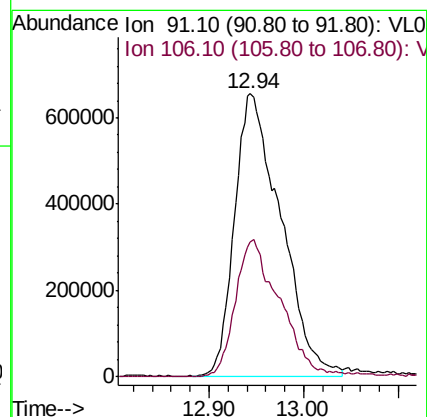
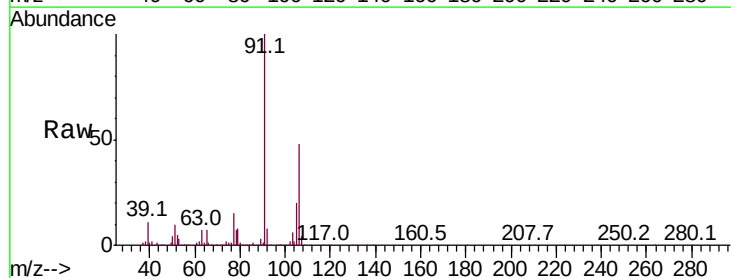
Acq: 16 Sep 2021 22:05

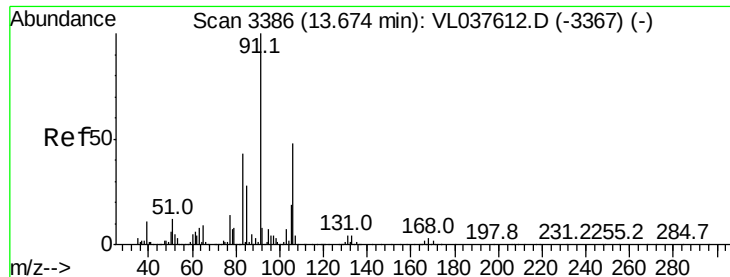
Tgt Ion: 91 Resp: 2217851

Ion Ratio Lower Upper

91 100

106 47.2 36.6 55.0





#60

o-Xylene

Concen: 1.751 ppbv

RT: 13.67 min Scan# 3385

Delta R.T. -0.00 min

Lab File: VL037626.D

Acq: 16 Sep 2021 22:05

Instrument :

MSVOA_L

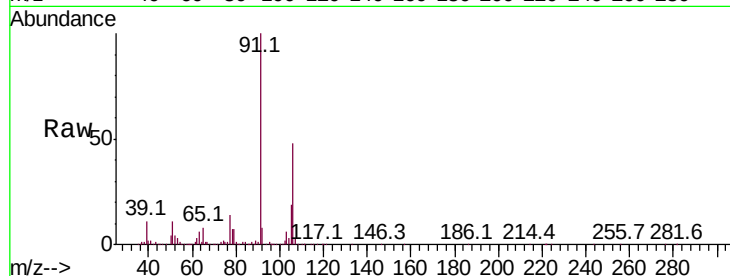
ClientSampleId :

Tot Ion: 91 Resp: 751916

Ion Ratio Lower Upper

91 100

106 49.3 23.0 69.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

13.67

300000

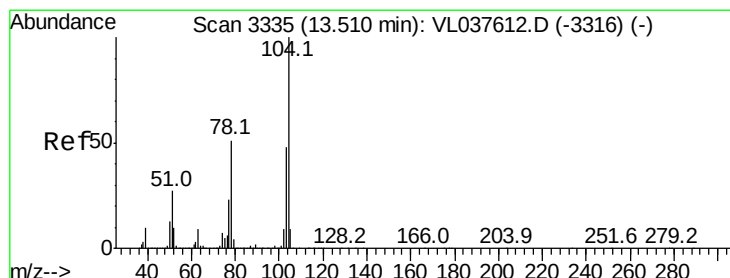
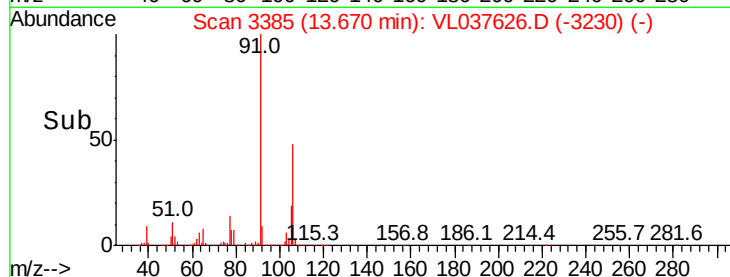
200000

100000

0

Time-->

13.60 13.65 13.70 13.75



#61

Styrene

Concen: 1.654 ppbv

RT: 13.51 min Scan# 3335

Delta R.T. 0.00 min

Lab File: VL037626.D

Acq: 16 Sep 2021 22:05

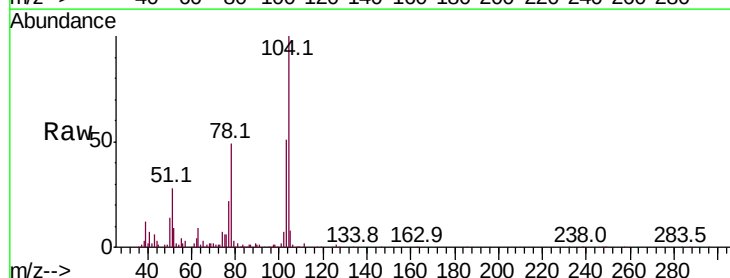
Tgt Ion: 104 Resp: 350272

Ion Ratio Lower Upper

104 100

78 53.8 39.7 59.5

103 52.3 38.8 58.2



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V

200000

150000

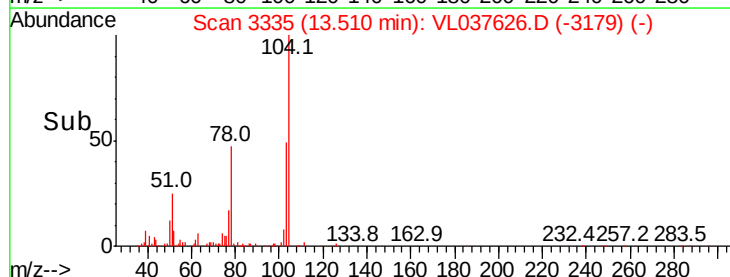
100000

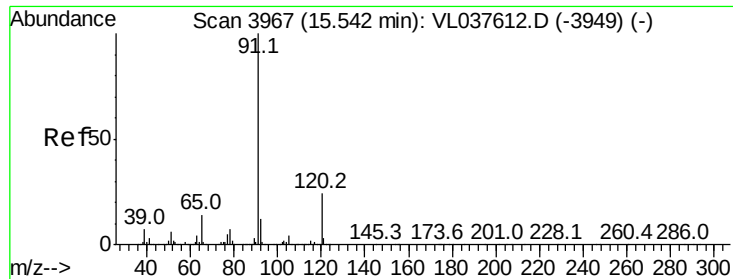
50000

0

Time-->

13.45 13.50 13.55





#64

n-propylbenzene

Concen: 0.034 ppbv

RT: 15.54 min Scan# 3966

Delta R.T. -0.00 min

Lab File: VL037626.D

Acq: 16 Sep 2021 22:05

Instrument :

MSVOA_L

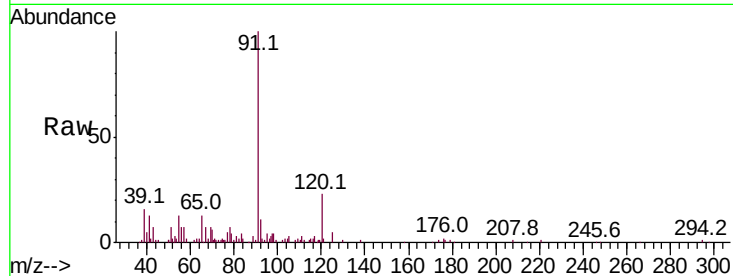
ClientSampled :

Tot Ion:120 Resp: 5266

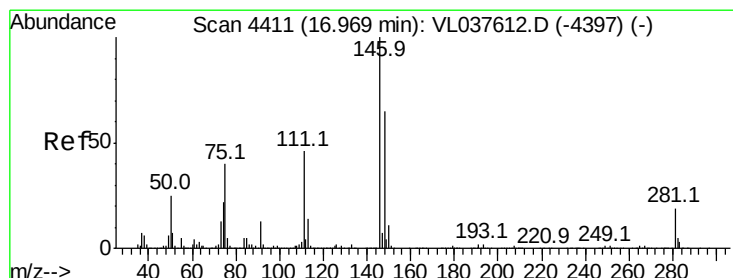
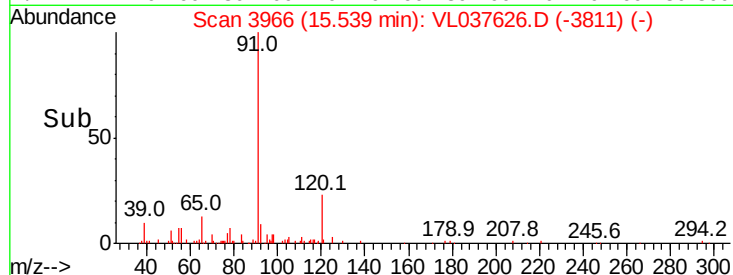
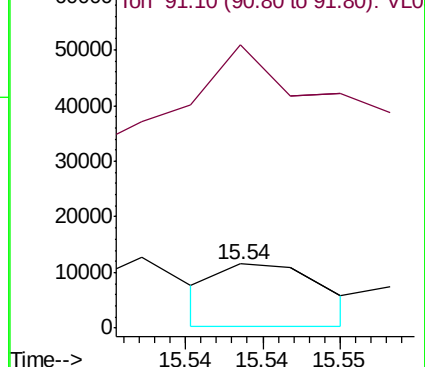
Ion Ratio Lower Upper

120 100

91 2060.4 345.0 517.4#



Abundance Ion 120.20 (119.90 to 120.90): V



#66

Benzyl Chloride

Concen: 1.744 ppbv

RT: 16.74 min Scan# 4339

Delta R.T. -0.23 min

Lab File: VL037626.D

Acq: 16 Sep 2021 22:05

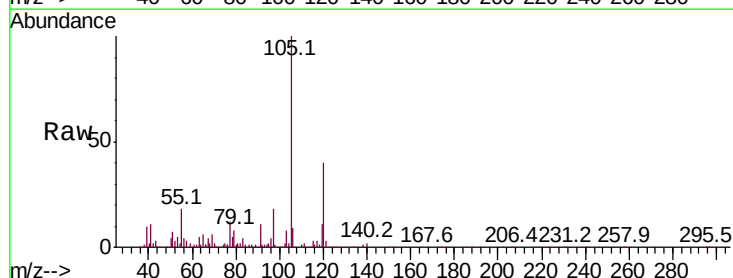
Tgt Ion: 91 Resp: 51557

Ion Ratio Lower Upper

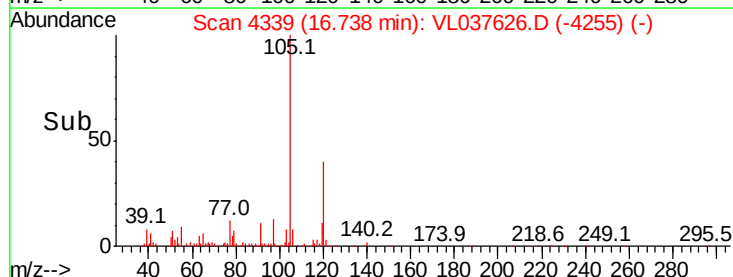
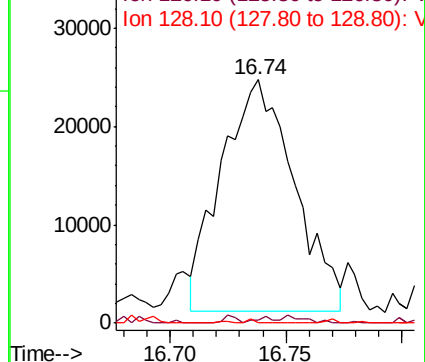
91 100

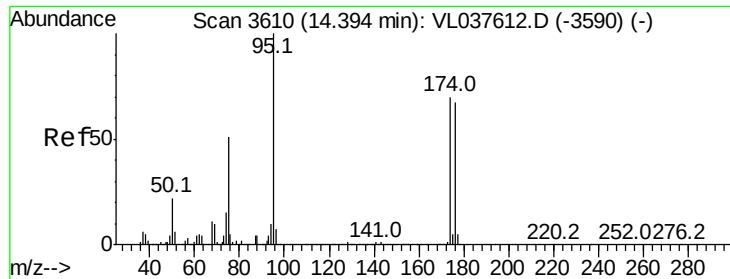
126 2.1 14.4 21.6#

128 0.3 5.7 8.5#



Abundance Ion 91.10 (90.80 to 91.80): VL0

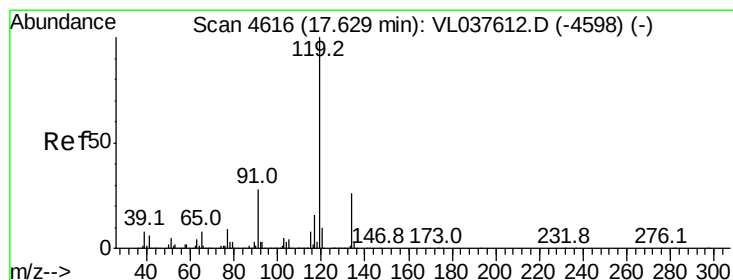
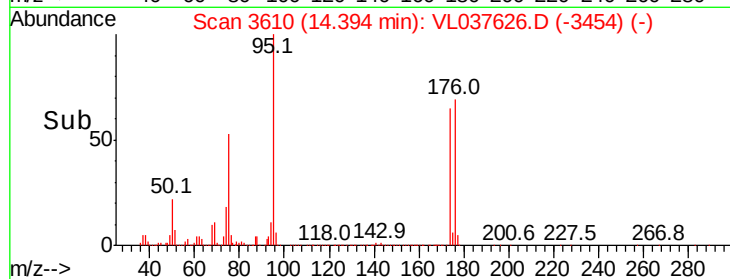
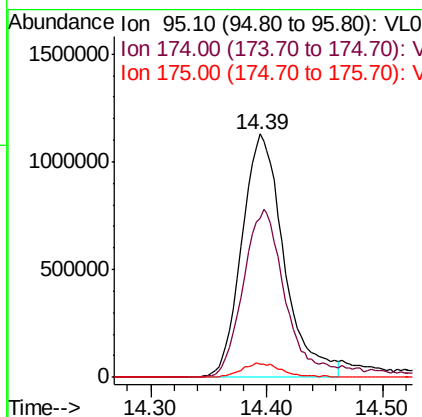
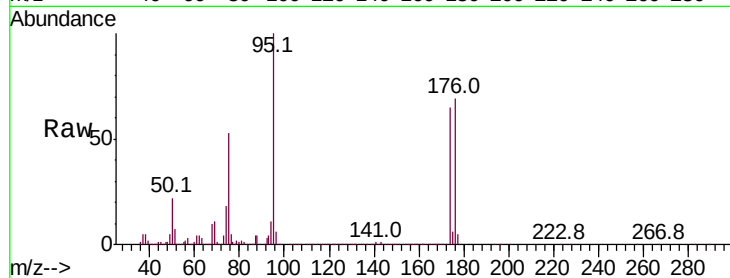




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.112 ppbv
 RT: 14.39 min Scan# 3610
 Delta R.T. 0.00 min
 Lab File: VL037626.D
 Acq: 16 Sep 2021 22:05

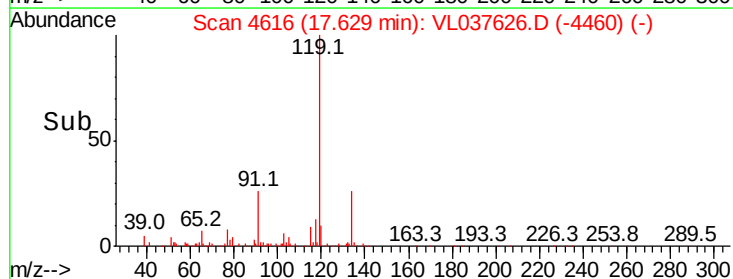
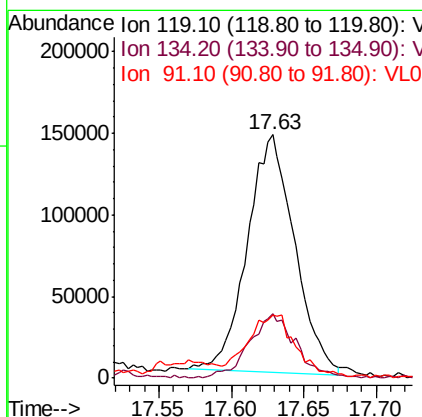
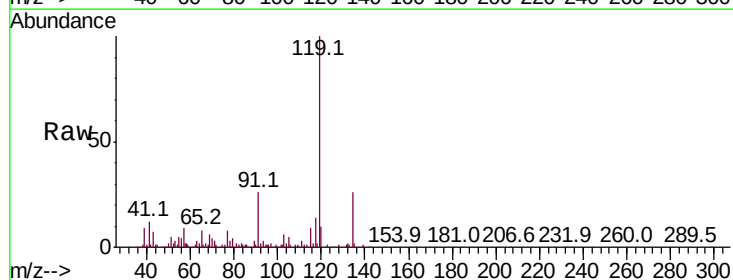
Instrument :
 MSVOA_L
 ClientSampleId :

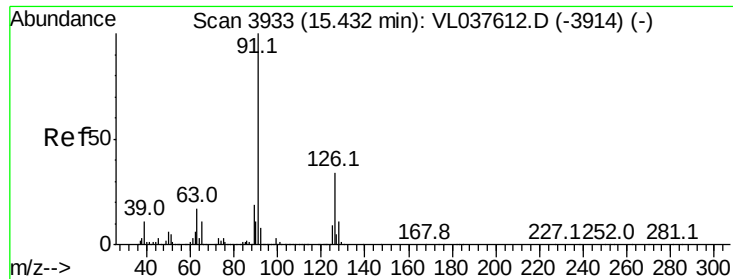
Tot Ion: 95 Resp: 2850785
 Ion Ratio Lower Upper
 95 100
 174 74.3 56.3 84.5
 175 5.9 4.4 6.6



#69
 p-Isopropyltoluene
 Concen: 0.552 ppbv
 RT: 17.63 min Scan# 4616
 Delta R.T. 0.00 min
 Lab File: VL037626.D
 Acq: 16 Sep 2021 22:05

Tgt Ion: 119 Resp: 331086
 Ion Ratio Lower Upper
 119 100
 134 27.0 21.2 31.8
 91 36.0 22.2 33.2#





#71

2-Chlorotoluene

Concen: 0.231 ppbv

RT: 15.54 min Scan# 3966

Delta R.T. 0.11 min

Lab File: VL037626.D

Acq: 16 Sep 2021 22:05

Instrument :

MSVOA_L

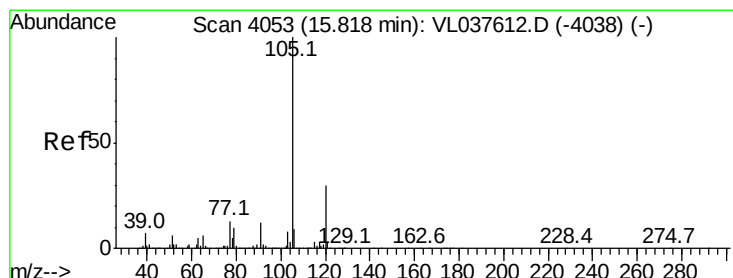
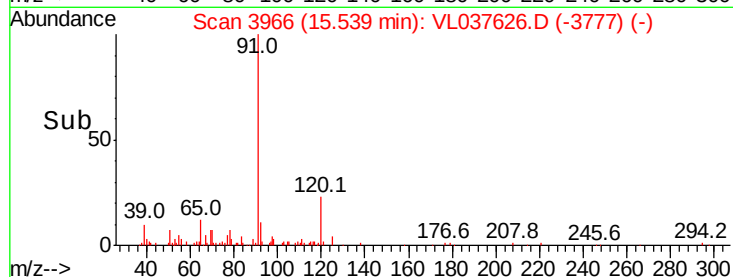
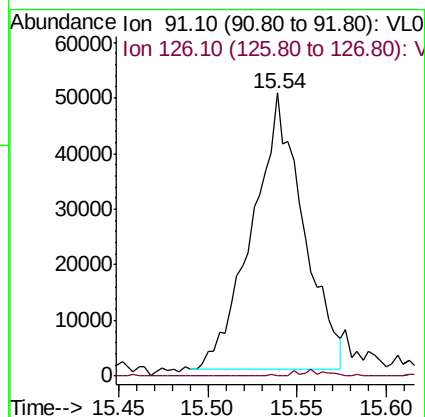
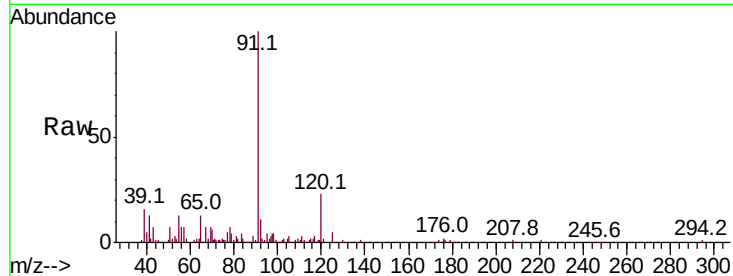
ClientSampled :

Tot Ion: 91 Resp: 99484

Ion Ratio Lower Upper

91 100

126 1.2 13.2 52.8#



#72

4-Ethyltoluene

Concen: 0.154 ppbv

RT: 15.82 min Scan# 4053

Delta R.T. 0.00 min

Lab File: VL037626.D

Acq: 16 Sep 2021 22:05

Tgt Ion:105 Resp: 75759

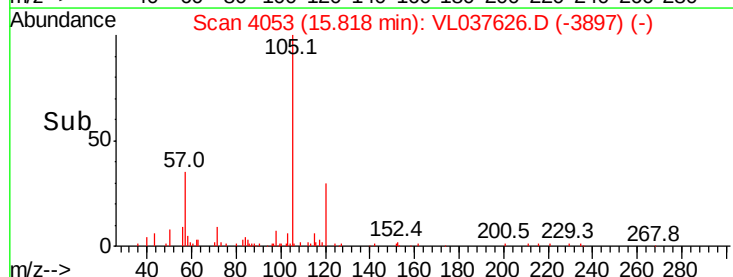
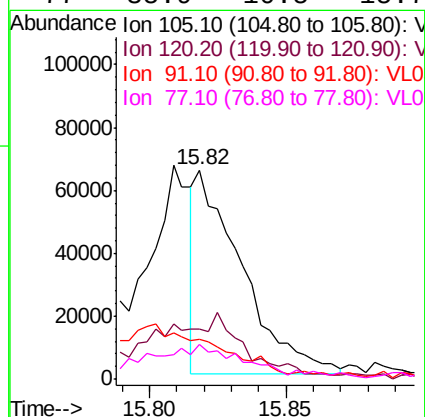
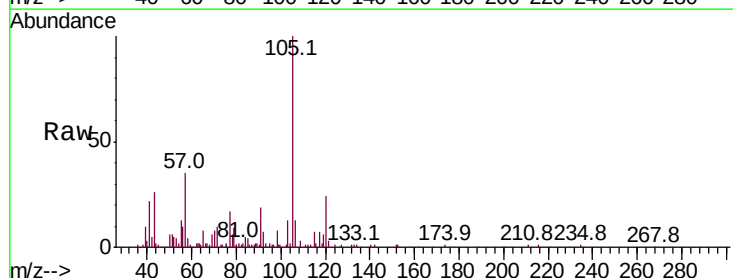
Ion Ratio Lower Upper

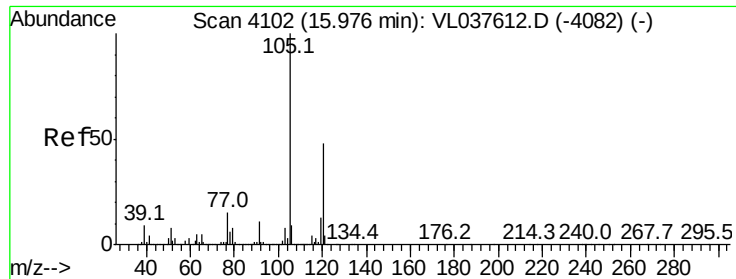
105 100

120 66.9 24.7 37.1#

91 0.0 9.9 14.9#

77 35.9 10.5 15.7#





#73

1,3,5-Trimethylbenzene

Concen: 0.285 ppbv

RT: 15.97 min Scan# 4101

Delta R.T. -0.00 min

Lab File: VL037626.D

Acq: 16 Sep 2021 22:05

Instrument :

MSVOA_L

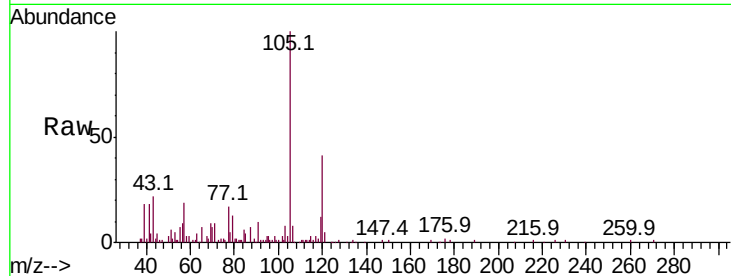
ClientSampleId :

Tot Ion:105 Resp: 130799

Ion Ratio Lower Upper

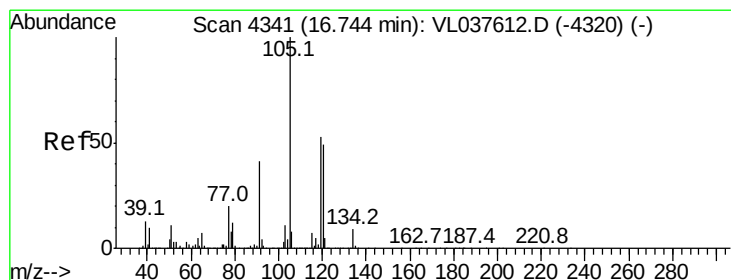
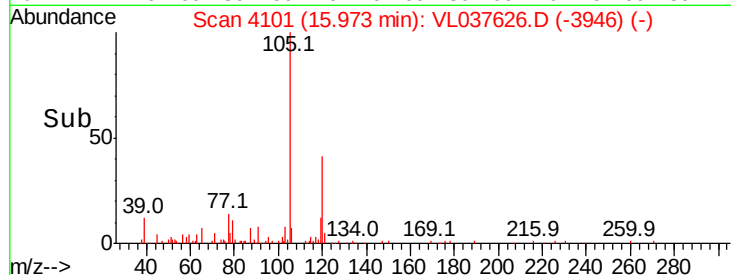
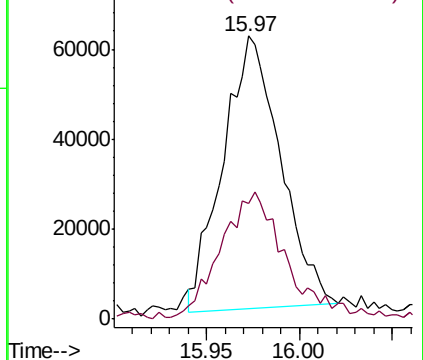
105 100

120 38.7 38.3 57.5



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 1.029 ppbv

RT: 16.74 min Scan# 4339

Delta R.T. -0.01 min

Lab File: VL037626.D

Acq: 16 Sep 2021 22:05

Tgt Ion:105 Resp: 497960

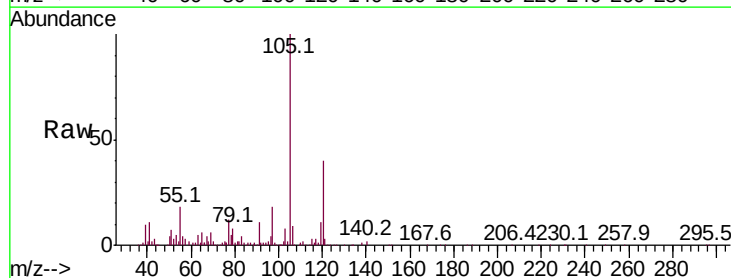
Ion Ratio Lower Upper

105 100

120 39.8 39.4 59.0

91 10.5 33.3 49.9#

77 11.6 15.7 23.5#

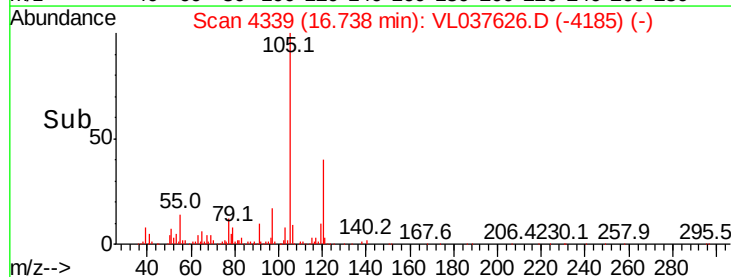
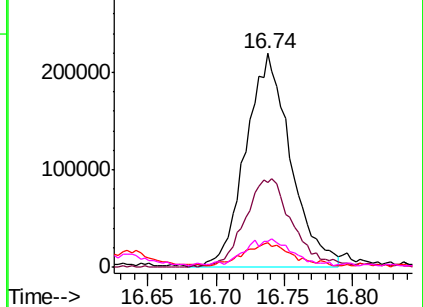


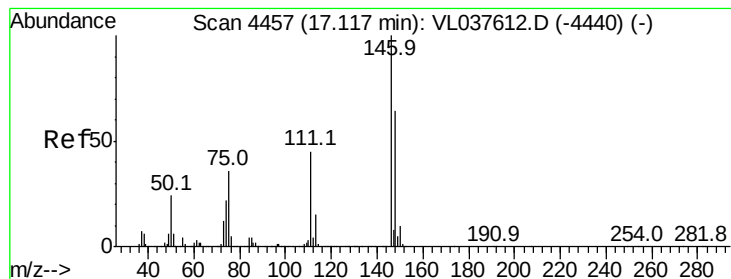
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#76

1,4-Dichlorobenzene

Concen: 0.343 ppbv

RT: 17.11 min Scan# 4455

Delta R.T. -0.01 min

Lab File: VL037626.D

Acq: 16 Sep 2021 22:05

Instrument :

MSVOA_L

ClientSampleId :

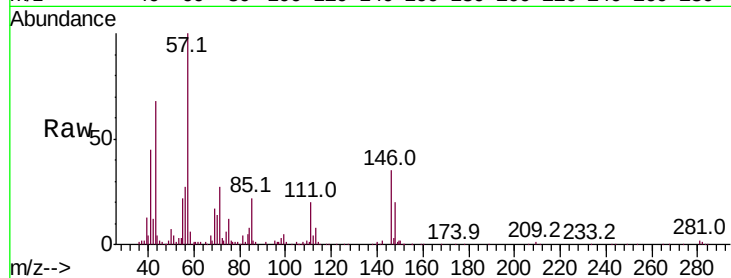
Tot Ion:146 Resp: 101849

Ion Ratio Lower Upper

146 100

111 74.5 22.5 67.5#

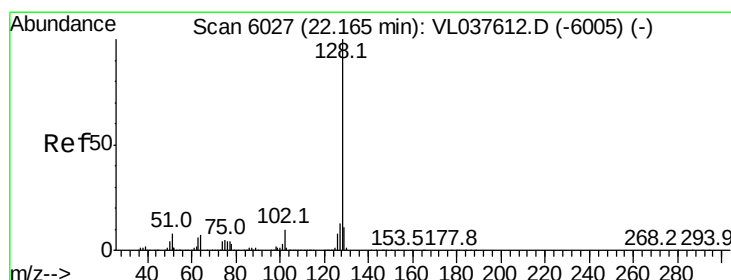
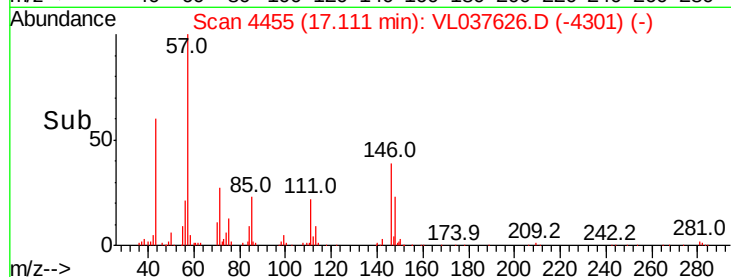
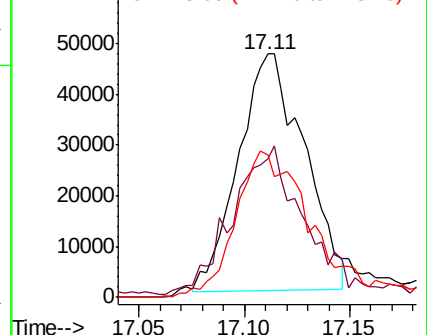
148 73.6 32.9 98.6



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#79

Naphthalene

Concen: 0.356 ppbv

RT: 22.16 min Scan# 6025

Delta R.T. -0.01 min

Lab File: VL037626.D

Acq: 16 Sep 2021 22:05

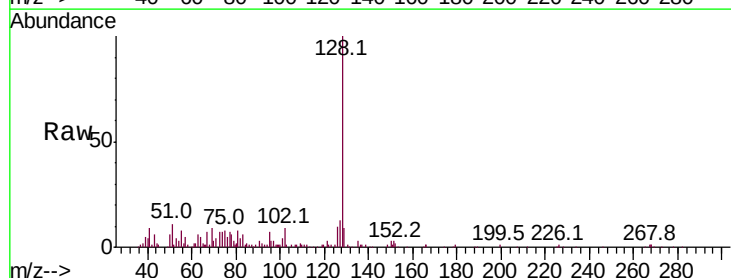
Tgt Ion:128 Resp: 105683

Ion Ratio Lower Upper

128 100

127 12.6 10.6 16.0

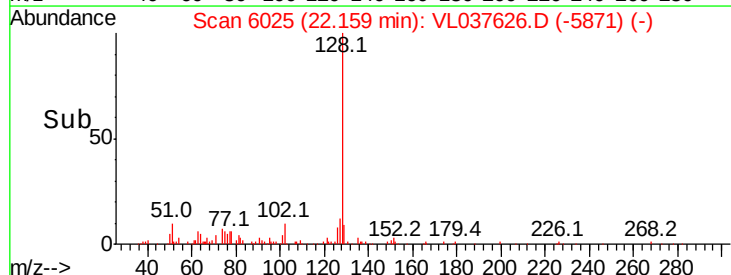
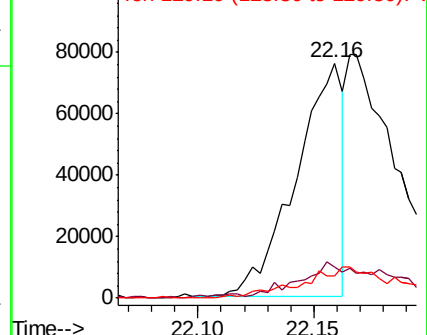
129 9.3 8.6 12.8

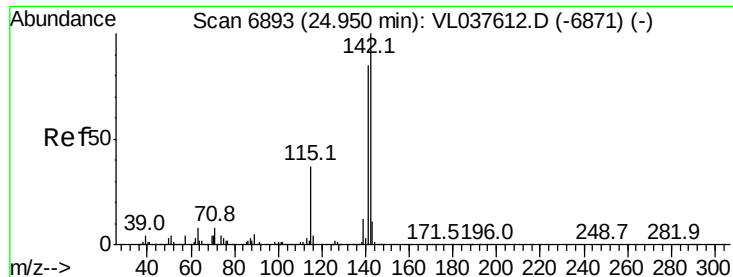


Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V





#80

Naphthalene, 2-methyl-

Concen: 0.219 ppbv

RT: 25.26 min Scan# 6990

Delta R.T. 0.31 min

Lab File: VL037626.D

Acq: 16 Sep 2021 22:05

Instrument :

MSVOA_L

ClientSampleId :

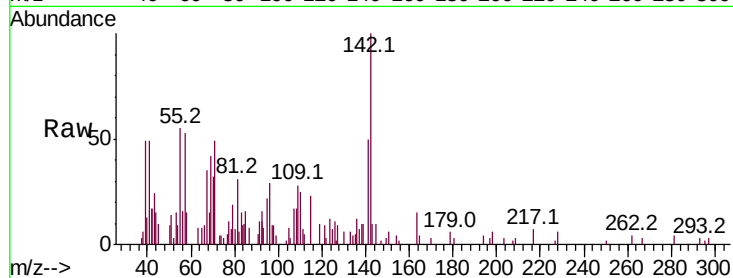
Tot Ion:142 Resp: 14856

Ion Ratio Lower Upper

142 100

141 93.5 70.9 106.3

115 42.8 29.6 44.4



Abundance

Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

