

Data File : VL037794.D

Acq On : 6 Oct 2021 7:37

Operator : SY/AP

Sample : VSTDCCC010

Misc : 400mL/MSVOA_L

ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Quant Time: Oct 06 12:48:34 2021

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL100421AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Oct 04 17:43:54 2021

QLast Update : Mon Oct 04 17:43:54 2021

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	1260621	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.15	114	3758821	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.05	117	4202945	10.00	ppbv	-0.04

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.38	95	2459476	8.37	ppbv	-0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	83.70%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.03	85	1573894	7.816	ppbv	99
3) Chlorodifluoromethane	2.97	51	2278362	9.406	ppbv	99
4) Chloromethane	3.12	50	765130	8.624	ppbv	98
5) Vinyl Chloride	3.24	62	790634	9.722	ppbv	98
6) Bromomethane	3.46	94	297820	6.770	ppbv	94
7) Chloroethane	3.54	64	265929	8.893	ppbv	91
8) Dichlorotetrafluoroethane	3.17	85	1784380	8.966	ppbv	98
9) Propene	3.00	41	775179	8.698	ppbv	99
10) Heptane	8.09	43	1956803	9.668	ppbv	100
11) Trichlorofluoromethane	3.93	101	1644989	9.157	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.46	101	1242460	9.128	ppbv	100
13) Ethanol	3.59	45	19556	2.683	ppbv #	1
14) Bromoethene	3.72	108	545972	9.122	ppbv	95
15) Acetone	3.83	43	923999	8.165	ppbv	99
16) 1,3-Butadiene	3.31	39	843129	10.240	ppbv	90
17) tert-Butyl alcohol	4.26	59	1054028	9.044	ppbv	100
18) 1,1-Dichloroethene	4.27	96	548191	8.862	ppbv	97
19) Isopropyl Alcohol	3.94	45	671946	9.544	ppbv #	97
20) Methylene Chloride	4.32	84	456829	7.989	ppbv	95
21) Allyl Chloride	4.39	41	774275	7.723	ppbv	98
22) trans-1,2-Dichloroethene	4.86	96	581351	9.348	ppbv	94
23) Vinyl Acetate	5.05	43	1379793	8.136	ppbv	99
24) 1,1-Dichloroethane	4.99	63	1190935	9.647	ppbv	99
25) Ethyl Acetate	5.65	43	2854326	8.988	ppbv	99
26) Hexane	5.66	57	1423634	9.104	ppbv	96
27) Carbon Disulfide	4.53	76	1358087	9.800	ppbv	99
28) Methyl tert-Butyl Ether	5.01	73	1130628	8.684	ppbv	99
29) Chloroform	5.73	83	2018540	9.031	ppbv	99
30) Cyclohexane	7.10	84	1198377	9.038	ppbv	100
31) cis-1,2-Dichloroethene	5.52	61	1296000	9.130	ppbv	97
32) 1,1,1-Trichloroethane	6.48	97	1932941	9.122	ppbv	99
34) 2-Butanone	5.22	43	1266162	8.344	ppbv	98
35) Carbon Tetrachloride	6.99	117	1988006	9.313	ppbv	97
36) Benzene	6.86	78	2954635	9.203	ppbv	99
37) 1,2-Dichloroethane	6.28	62	1433299	9.481	ppbv	99
38) Trichloroethene	7.81	130	1176878	9.279	ppbv	98
39) 1,2-Dichloropropane	7.58	63	1154930	9.564	ppbv	98
40) 1,4-Dioxane	7.81	88	270133	8.939	ppbv #	100
41) Tetrahydrofuran	6.02	42	643105	8.655	ppbv	100
42) Bromodichloromethane	7.76	83	2134046	9.611	ppbv	98
43) Methyl Methacrylate	7.99	69	1109126	10.577	ppbv	99

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Oct 04 17:43:54 2021
QLast Update : Mon Oct 04 17:43:54 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.84	57	5001914	9.273	ppbv	98
45) t-1,3-Dichloropropene	9.25	75	415622	5.760	ppbv	99
46) cis-1,3-Dichloropropene	8.67	75	670060	6.700	ppbv	97
47) 1,1,2-Trichloroethane	9.44	97	1201146	9.150	ppbv	97
48) Dibromochloromethane	10.27	129	1903819	10.173	ppbv	100
49) Bromoform	13.01	173	1606644	11.220	ppbv	99
50) 4-Methyl-2-Pentanone	8.71	43	2009049	10.170	ppbv	100
51) 2-Hexanone	10.10	43	1022891	11.599	ppbv #	98
52) Tetrachloroethene	11.19	164	1094745	8.764	ppbv	97
53) Toluene	9.78	91	3432292	9.647	ppbv	100
54) 1,2-Dibromoethane	10.58	107	1609805	9.078	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.09	131	1379631	7.929	ppbv	98
57) Chlorobenzene	12.11	112	2536303	7.356	ppbv	98
58) Ethyl Benzene	12.68	91	4471720	7.923	ppbv	99
59) m/p-Xylene	12.96	91	188178	0.388	ppbv #	1
60) o-Xylene	13.66	91	3537534	7.620	ppbv	98
61) Styrene	13.49	104	1850927	8.242	ppbv	99
62) Isopropylbenzene	14.64	105	5050320	7.799	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.64	83	2606375	7.275	ppbv	99
64) n-propylbenzene	15.53	120	1324620	8.203	ppbv	97
65) tert-Butylbenzene	16.71	119	4377481	7.682	ppbv	100
66) Benzyl Chloride	16.95	91	40517	1.441	ppbv #	54
67) sec-Butylbenzene	17.26	105	6190173	7.942	ppbv	100
69) p-Isopropyltoluene	17.62	119	5193779	8.243	ppbv	99
70) n-Butylbenzene	18.52	91	5073550	8.476	ppbv	99
71) 2-Chlorotoluene	15.42	91	3679827	8.047	ppbv	100
72) 4-Ethyltoluene	15.81	105	4221821	8.009	ppbv	98
73) 1,3,5-Trimethylbenzene	15.97	105	3748262	7.828	ppbv	98
74) 1,2,4-Trimethylbenzene	16.73	105	3969264	7.894	ppbv	97
75) 1,3-Dichlorobenzene	16.96	146	2445801	7.851	ppbv	100
76) 1,4-Dichlorobenzene	17.10	146	2387130	8.032	ppbv	99
77) 1,2-Dichlorobenzene	17.78	146	2421455	8.091	ppbv	98
78) Hexachloro-1,3-Butadiene	23.34	225	1885593	7.717	ppbv	100
79) Naphthalene	22.15	128	2992053	9.716	ppbv	98
80) Naphthalene,2-methyl-	24.94	142	788931	9.541	ppbv	98
81) 1,2,4-Trichlorobenzene	21.88	180	1839654	9.340	ppbv	98

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

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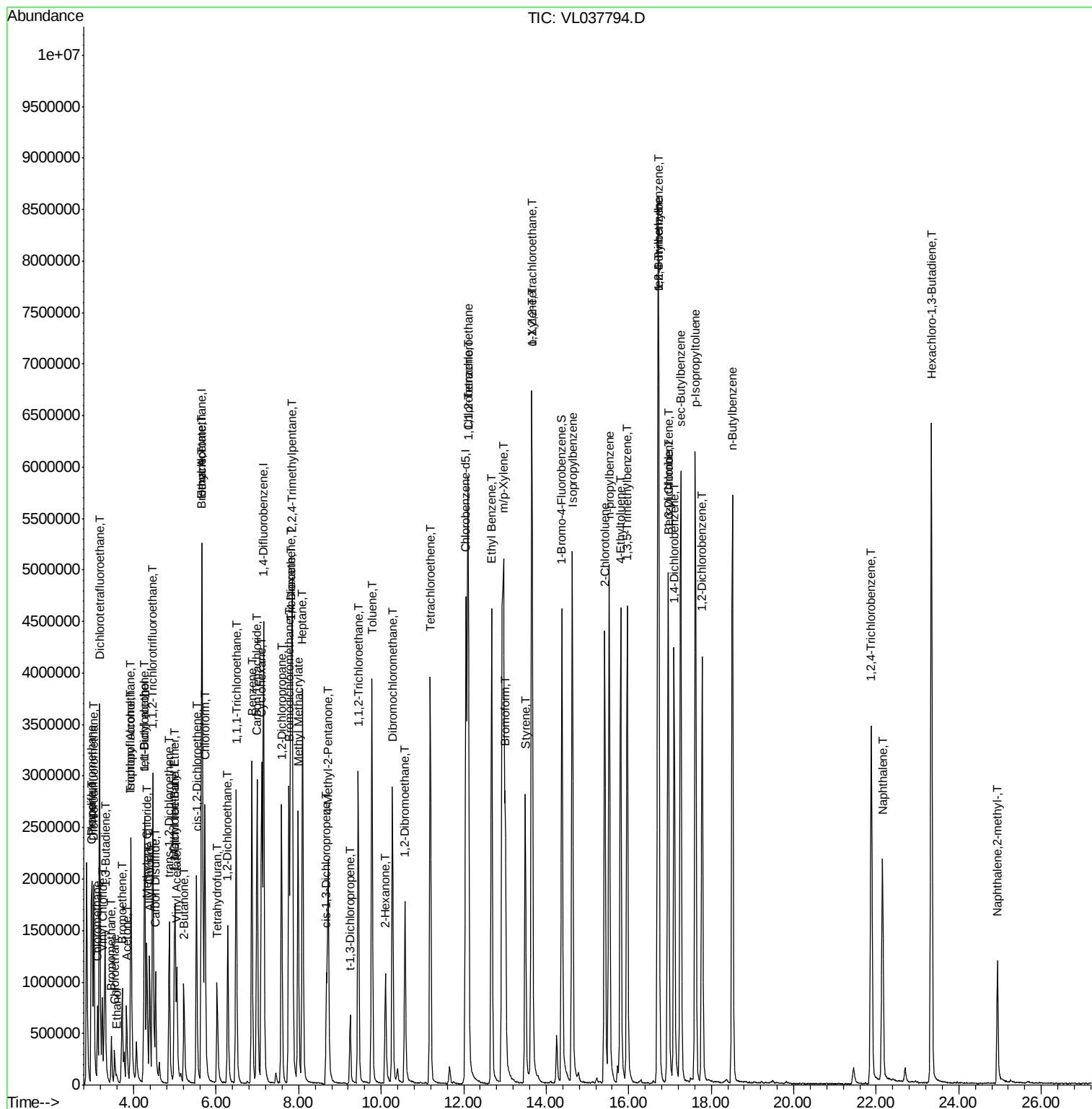
Quant Time: Oct 06 12:48:34 2021

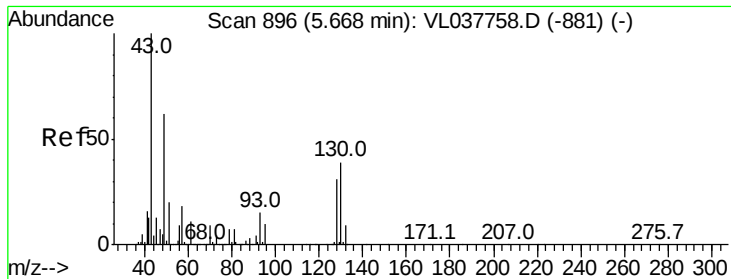
Quant Method : Z:\VOASRV\HPCHEM1\MSV0A_L\METHODS\VL100421AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Mon Oct 04 17:43:54 2021

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 min Scan# 887

Delta R.T. -0.03 min

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MSVOA_L
ClientSampleId :
VSTDCCC010EC

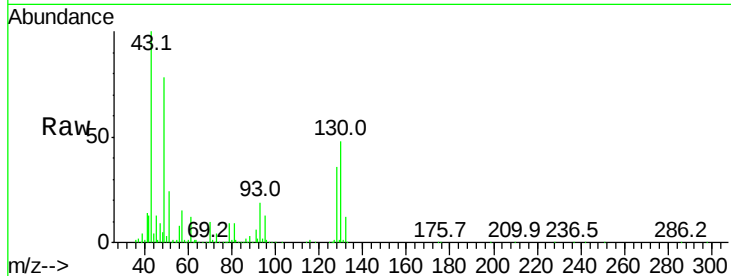
Tgt Ion: 49 Resp: 1260621

Ion Ratio Lower Upper

49 100

128 55.4 27.1 81.3

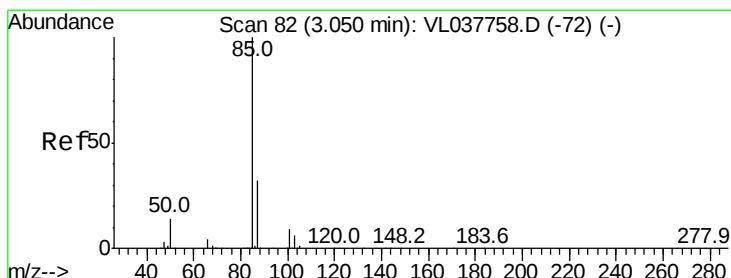
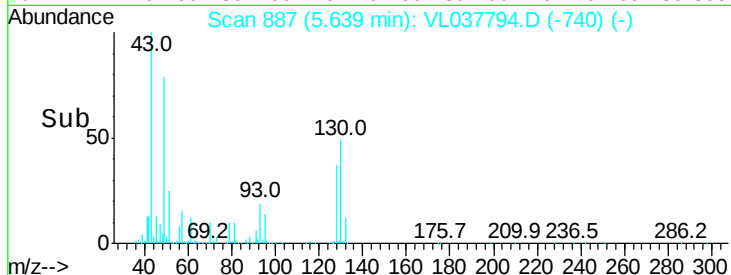
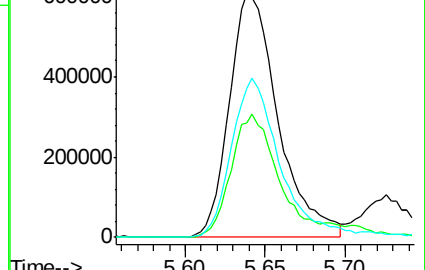
130 67.0 33.2 99.6



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



#2

Dichlorodifluoromethane

Concen: 7.816 ppbv

RT: 3.03 min Scan# 77

Delta R.T. -0.02 min

Lab File: VL037794.D

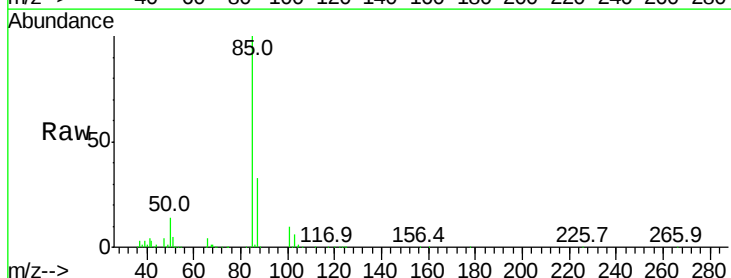
Acq: 6 Oct 2021 7:37

Tgt Ion: 85 Resp: 1573894

Ion Ratio Lower Upper

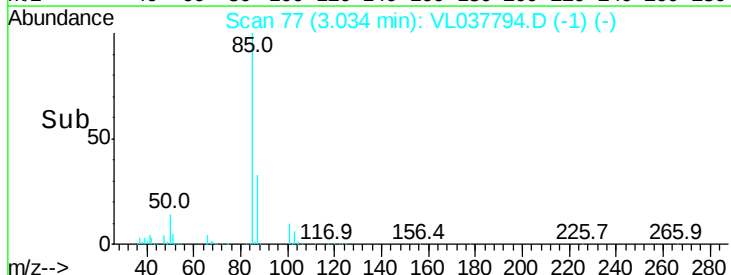
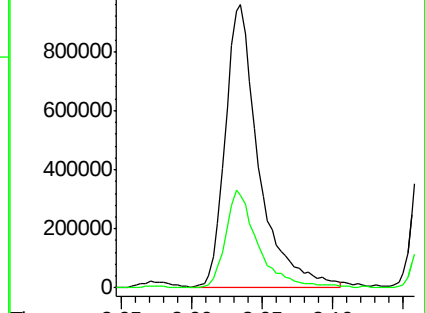
85 100

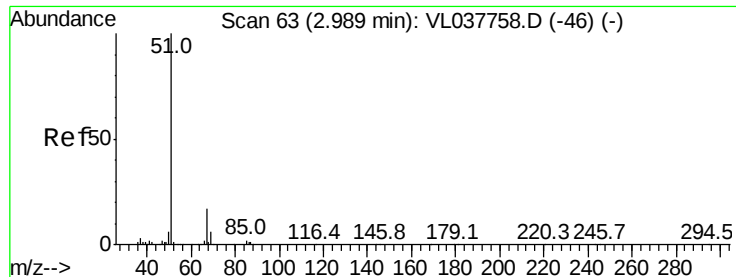
87 32.8 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.406 ppbv

RT: 2.97 min Scan# 58

Delta R.T. -0.02 min

Lab File: VL037794.D

Acq: 6 Oct 2021 7:37

Instrument :

MSVOA_L

ClientSampleId :

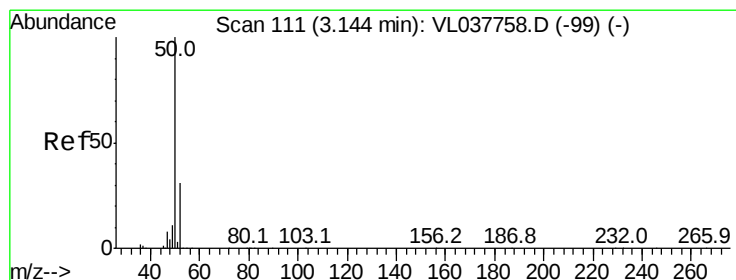
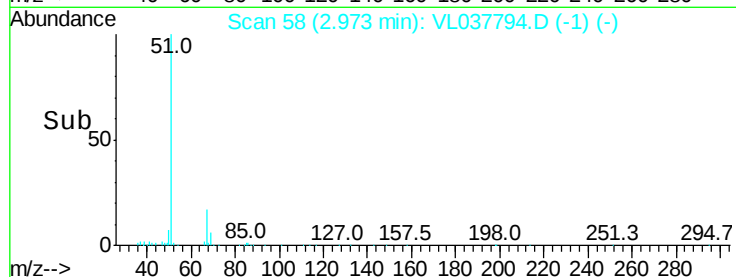
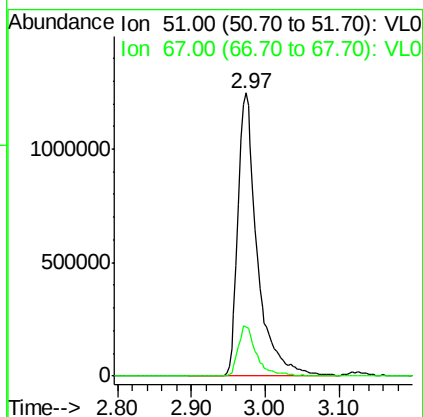
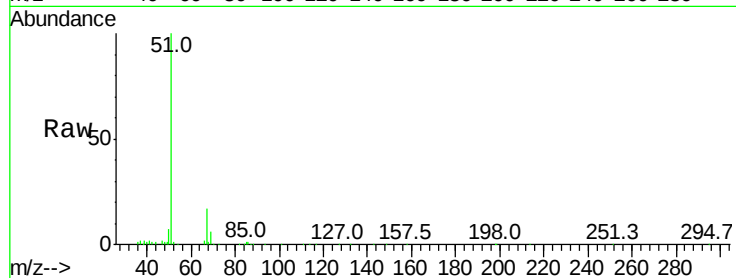
VSTDCCC010EC

Tgt Ion: 51 Resp: 2278362

Ion Ratio Lower Upper

51 100

67 17.2 13.5 20.3



#4

Chloromethane

Concen: 8.624 ppbv

RT: 3.12 min Scan# 104

Delta R.T. -0.02 min

Lab File: VL037794.D

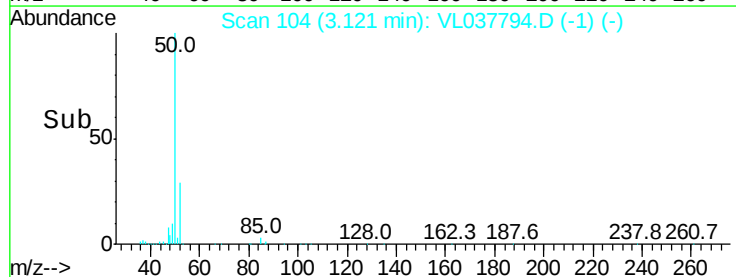
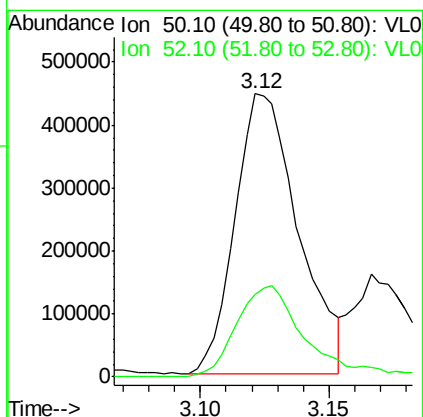
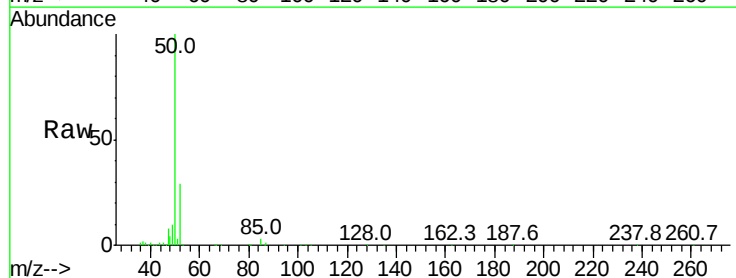
Acq: 6 Oct 2021 7:37

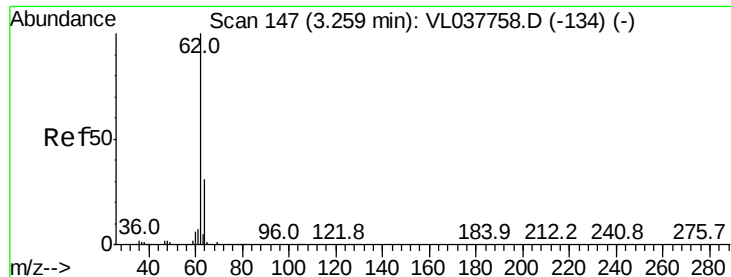
Tgt Ion: 50 Resp: 765130

Ion Ratio Lower Upper

50 100

52 29.2 24.4 36.6





#5

Vinyl Chloride

Concen: 9.722 ppbv

RT: 3.24 min Scan# 142

Delta R.T. -0.02 min

Lab File: VL037794.D

Acq: 6 Oct 2021 7:37

Instrument :

MSVOA_L

ClientSampleId :

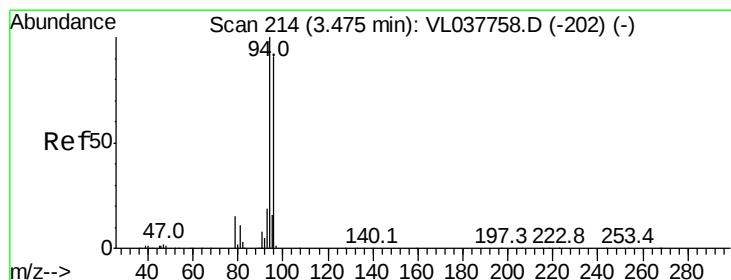
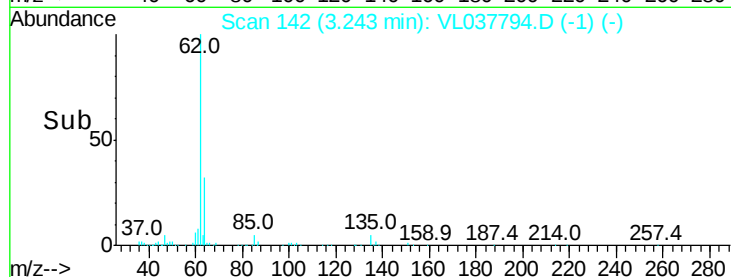
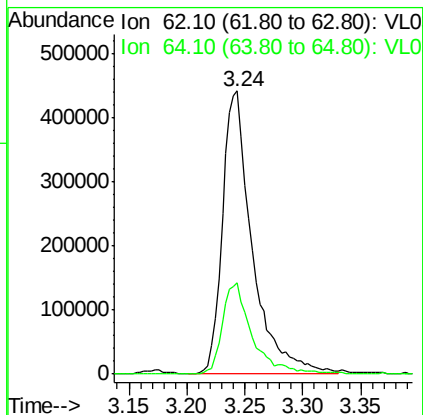
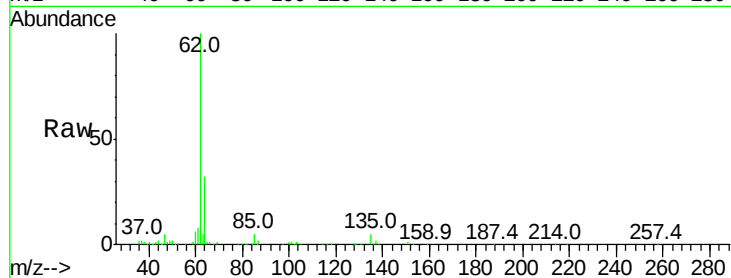
VSTDCCC010EC

Tgt Ion: 62 Resp: 790634

Ion Ratio Lower Upper

62 100

64 32.4 24.9 37.3



#6

Bromomethane

Concen: 6.770 ppbv

RT: 3.46 min Scan# 208

Delta R.T. -0.02 min

Lab File: VL037794.D

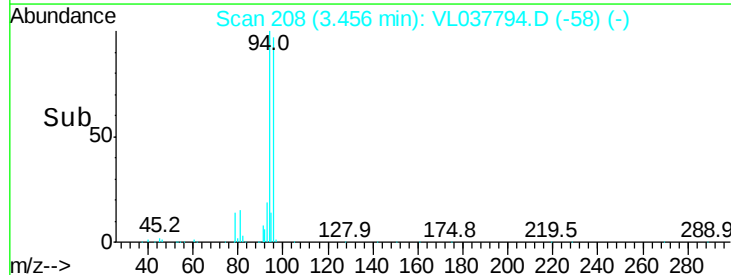
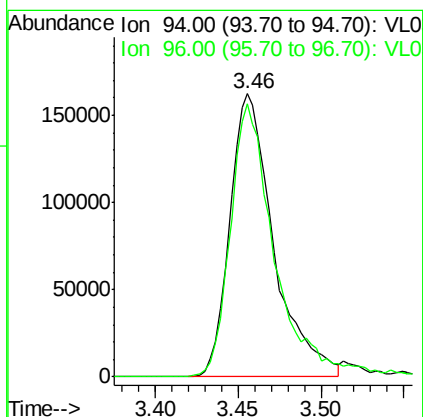
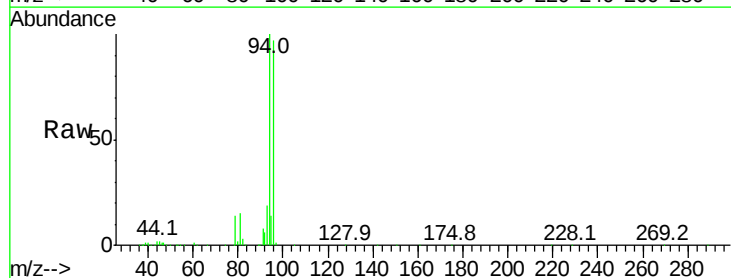
Acq: 6 Oct 2021 7:37

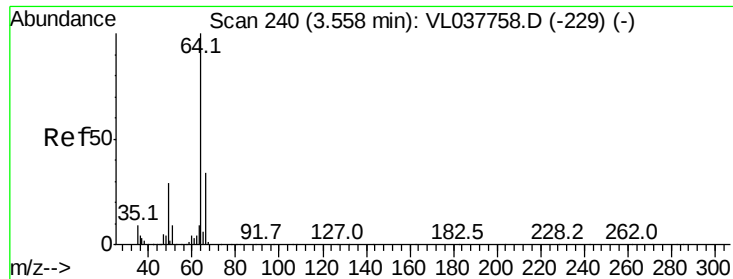
Tgt Ion: 94 Resp: 297820

Ion Ratio Lower Upper

94 100

96 96.5 72.5 108.7





#7

Chloroethane

Concen: 8.893 ppbv

RT: 3.54 min Scan# 234

Delta R.T. -0.02 min

Lab File: VL037794.D

Acq: 6 Oct 2021 7:37

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MSVOA_L

ClientSampleId :

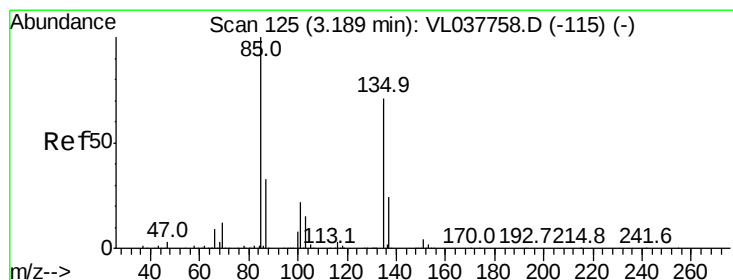
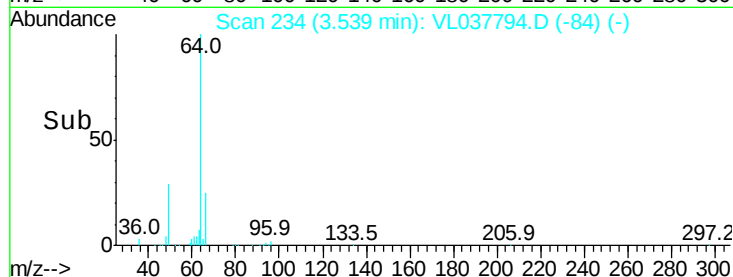
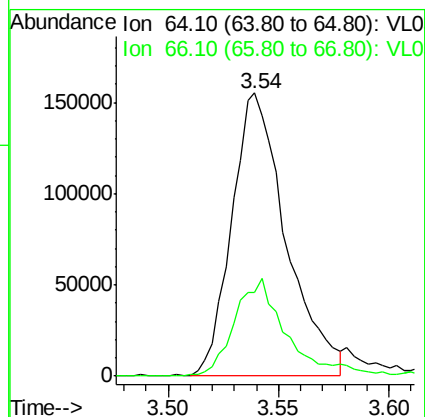
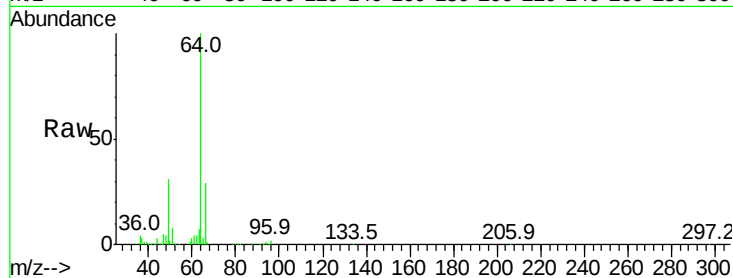
VSTDCCC010EC

Tgt Ion: 64 Resp: 265929

Ion Ratio Lower Upper

64 100

66 29.4 27.5 41.3



#8

Dichlorotetrafluoroethane

Concen: 8.966 ppbv

RT: 3.17 min Scan# 120

Delta R.T. -0.02 min

Lab File: VL037794.D

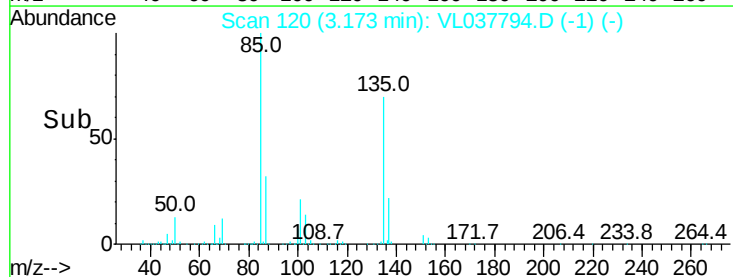
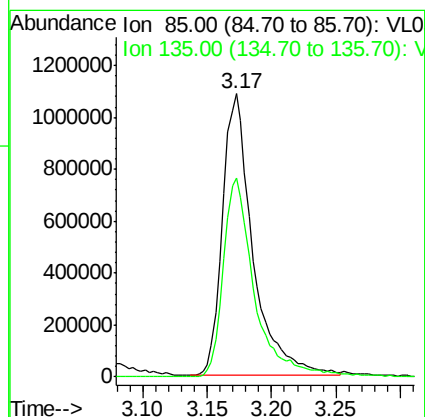
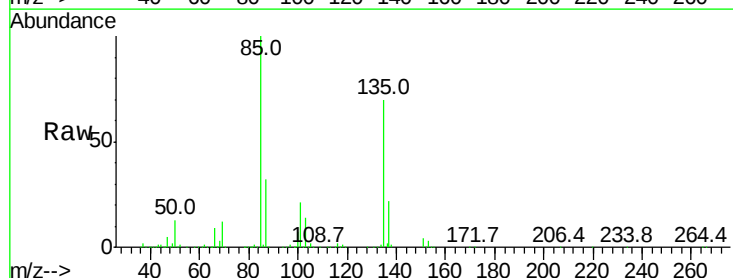
Acq: 6 Oct 2021 7:37

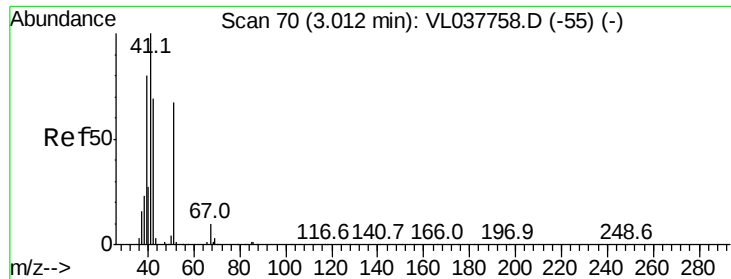
Tgt Ion: 85 Resp: 1784380

Ion Ratio Lower Upper

85 100

135 72.7 59.5 89.3





#9

Propene

Concen: 8.698 ppbv

RT: 3.00 min Scan# 65

Delta R.T. -0.02 min

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Instrument :

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ClientSampleId :

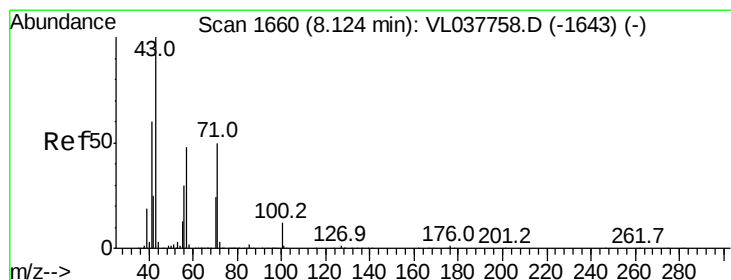
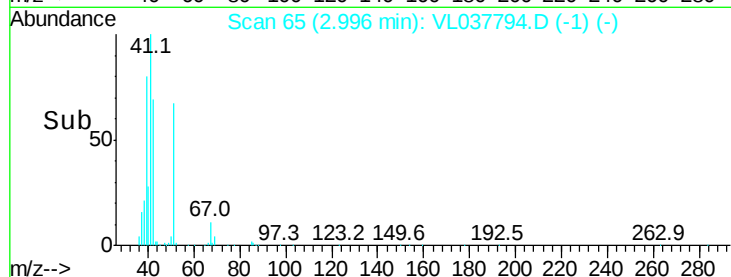
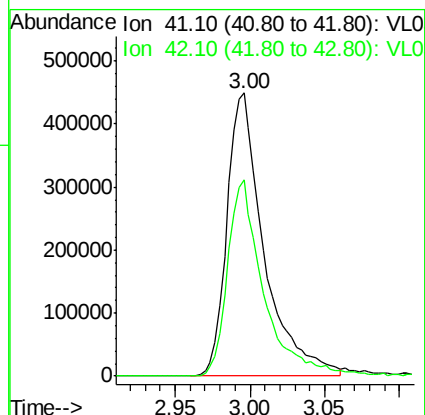
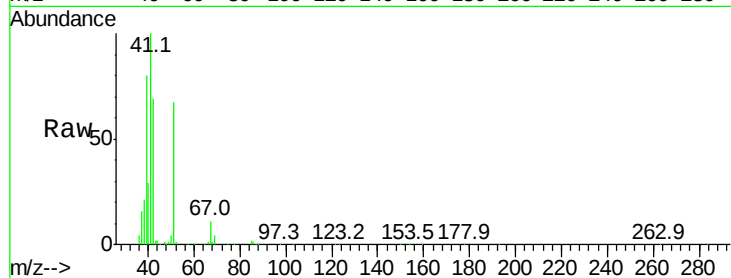
VSTDCCC010EC

Tgt Ion: 41 Resp: 775179

Ion Ratio Lower Upper

41 100

42 68.2 54.2 81.2



#10

Heptane

Concen: 9.668 ppbv

RT: 8.09 min Scan# 1650

Delta R.T. -0.03 min

Lab File: VL037794.D

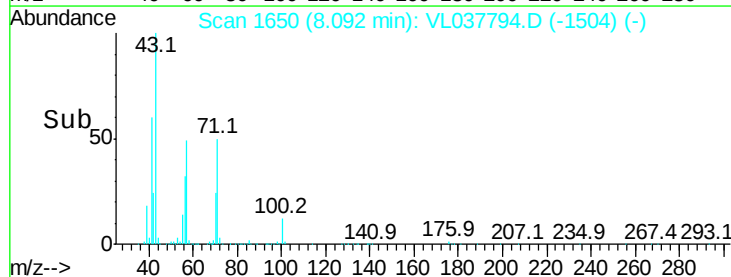
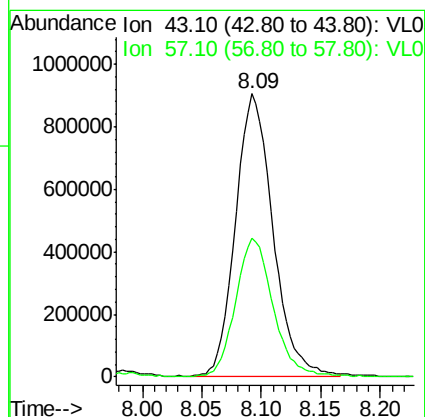
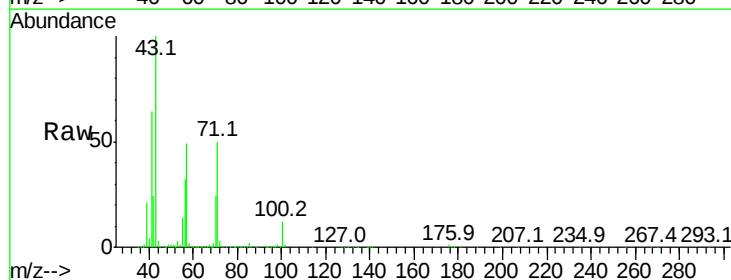
Acq: 6 Oct 2021 7:37

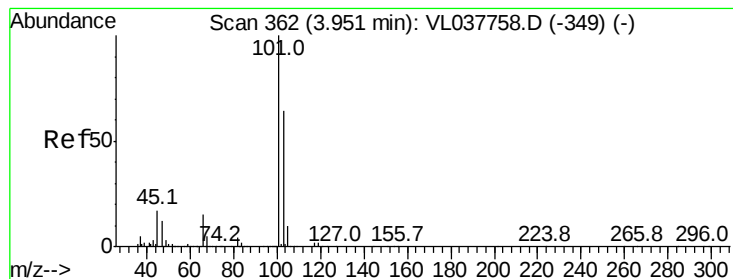
Tgt Ion: 43 Resp: 1956803

Ion Ratio Lower Upper

43 100

57 49.8 40.0 60.0





#11

Trichlorofluoromethane

Concen: 9.157 ppbv

RT: 3.93 min Scan# 356

Delta R.T. -0.02 min

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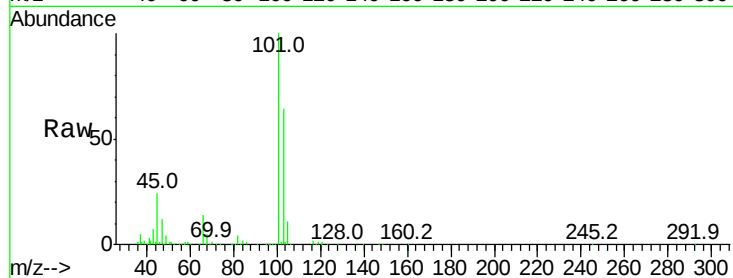
VSTDCCC010EC

Tgt Ion:101 Resp: 1644989

Ion Ratio Lower Upper

101 100

103 64.4 51.5 77.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

3.93

1000000

800000

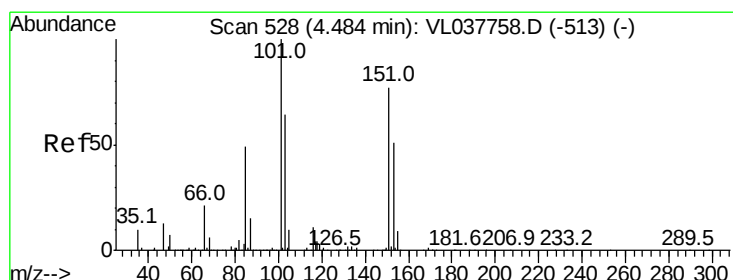
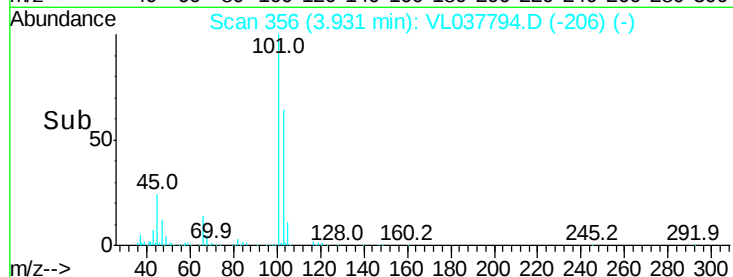
600000

400000

200000

0

Time-->



#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.128 ppbv

RT: 4.46 min Scan# 521

Delta R.T. -0.02 min

Lab File: VL037794.D

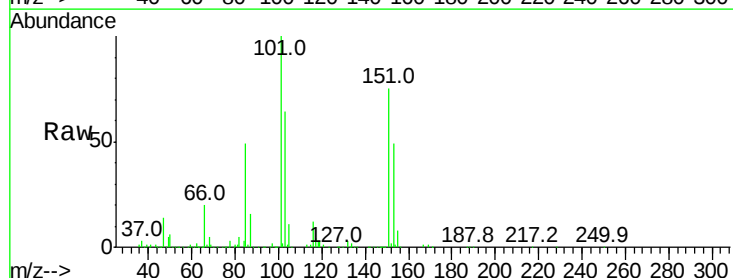
Acq: 6 Oct 2021 7:37

Tgt Ion:101 Resp: 1242460

Ion Ratio Lower Upper

101 100

151 78.2 62.9 94.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

4.46

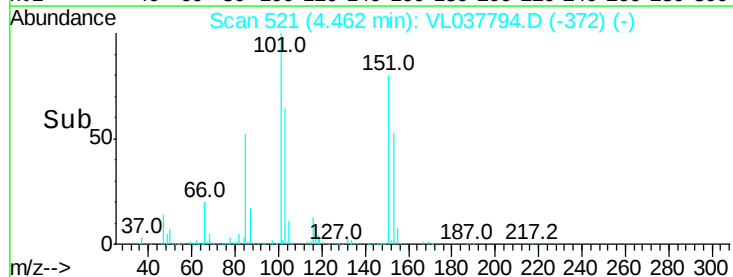
600000

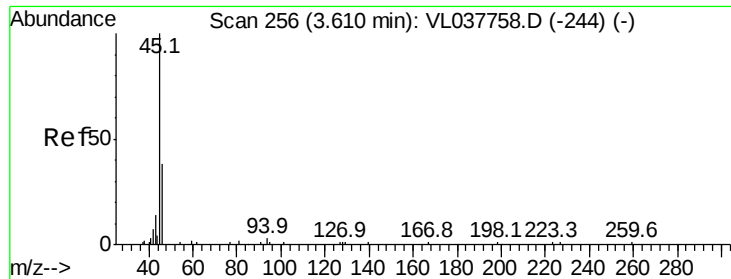
400000

200000

0

Time-->





#13

Ethanol

Concen: 2.683 ppbv

RT: 3.59 min Scan# 250

Delta R.T. -0.02 min

Lab File: VL037794.D

Acq: 6 Oct 2021 7:37

Instrument :

MSVOA_L

ClientSampleId :

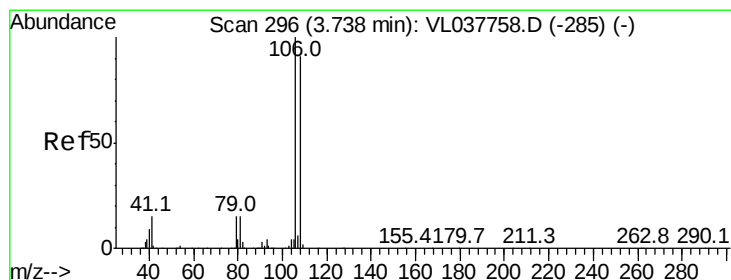
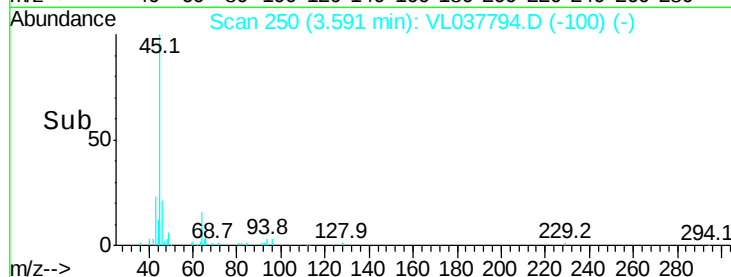
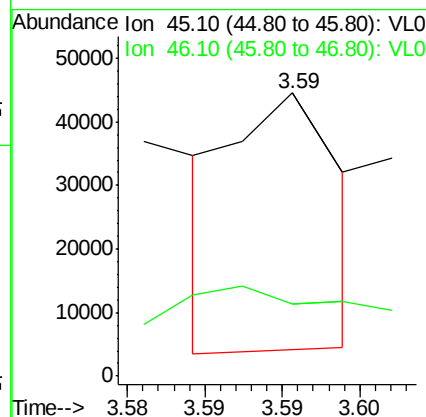
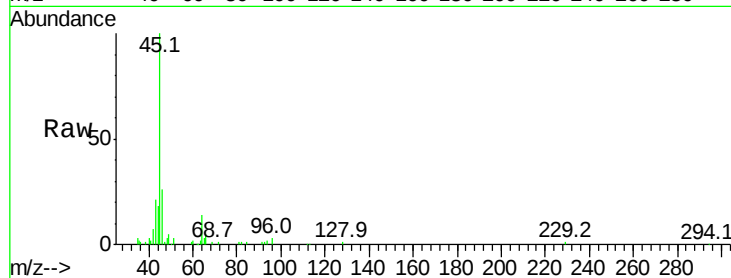
VSTDCCC010EC

Tgt Ion: 45 Resp: 19556

Ion Ratio Lower Upper

45 100

46 205.3 20.2 81.0#



#14

Bromoethene

Concen: 9.122 ppbv

RT: 3.72 min Scan# 291

Delta R.T. -0.02 min

Lab File: VL037794.D

Acq: 6 Oct 2021 7:37

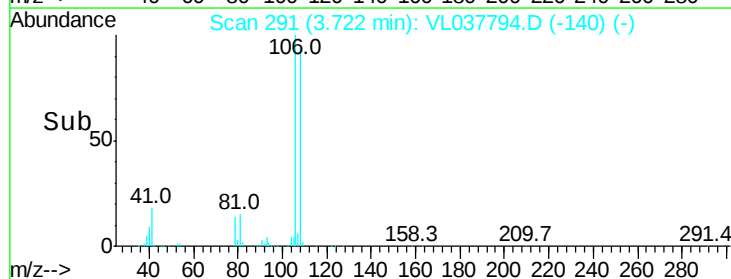
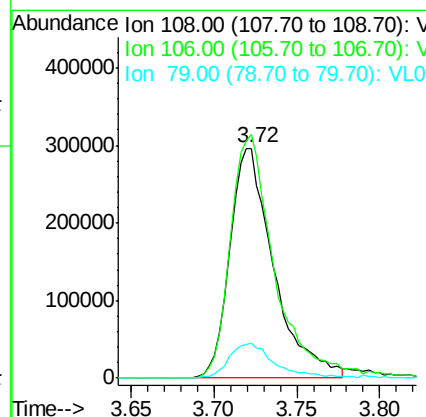
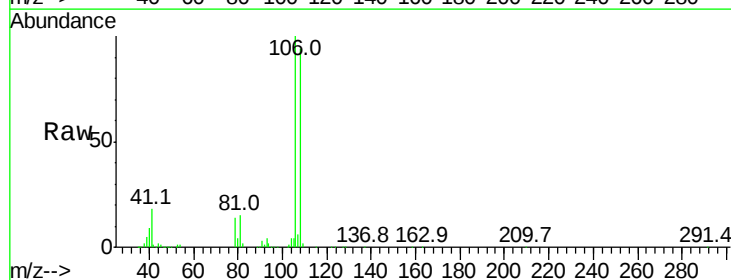
Tgt Ion: 108 Resp: 545972

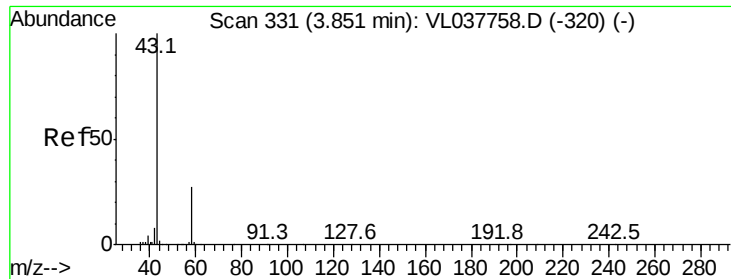
Ion Ratio Lower Upper

108 100

106 109.2 91.9 137.9

79 16.4 13.9 20.9

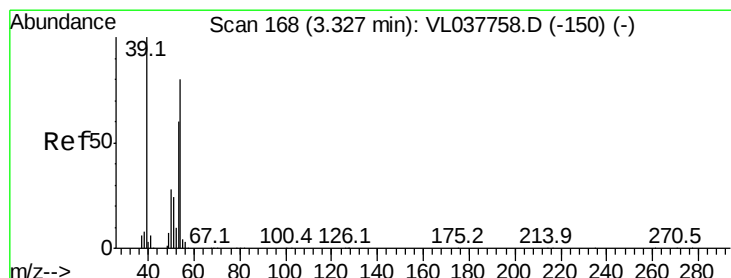
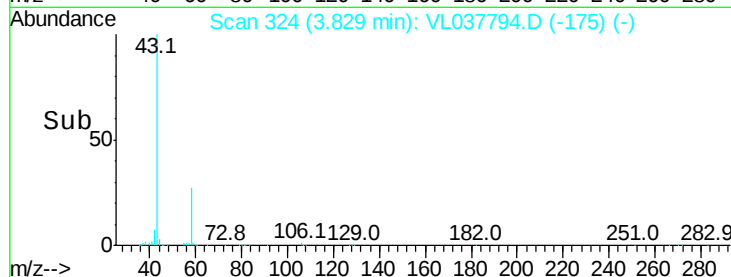
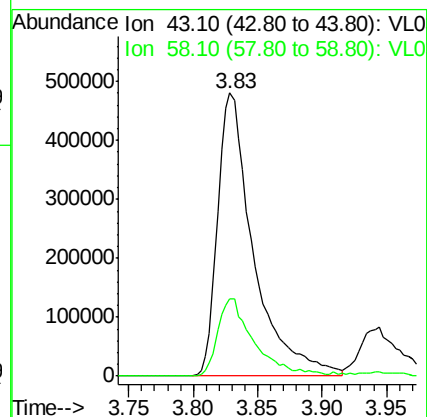
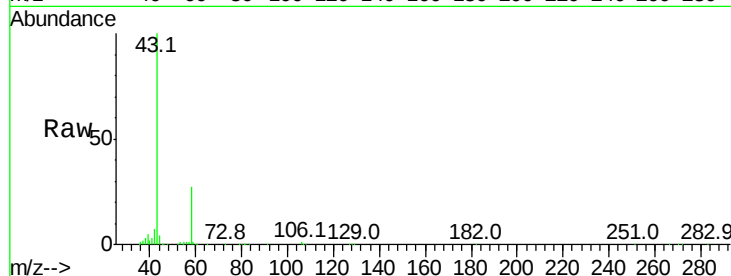




#15
Acetone
Concen: 8.165 ppbv
RT: 3.83 min Scan# 324
Delta R.T. -0.02 min
Lab File: VL037794.D
Acq: 6 Oct 2021 7:37

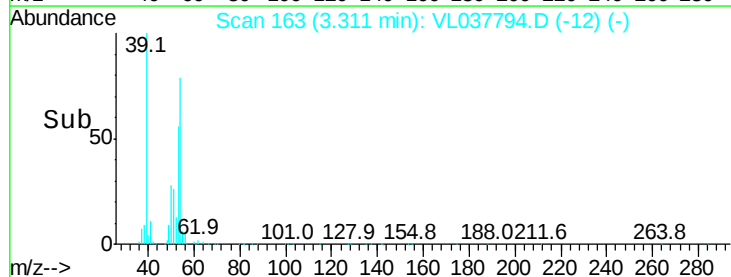
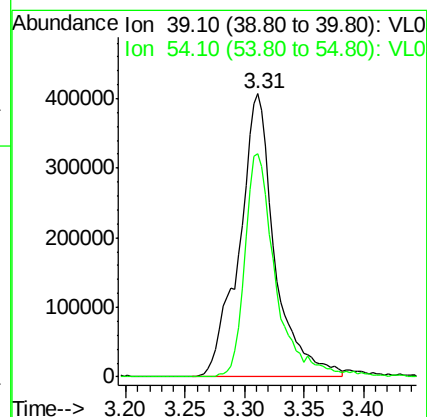
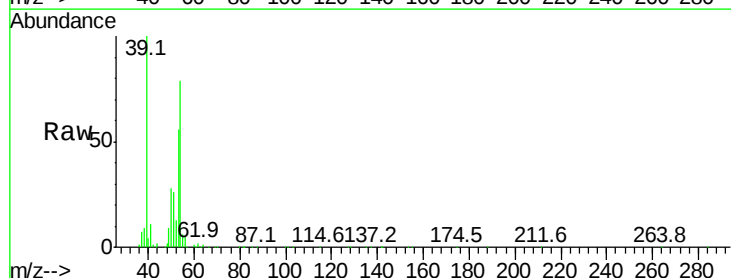
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

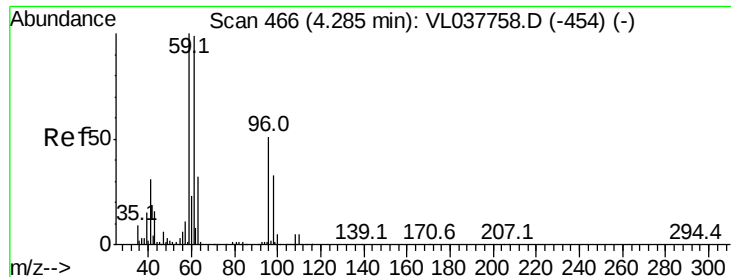
Tgt Ion: 43 Resp: 923999
Ion Ratio Lower Upper
43 100
58 28.0 23.0 34.6



#16
1,3-Butadiene
Concen: 10.240 ppbv
RT: 3.31 min Scan# 163
Delta R.T. -0.02 min
Lab File: VL037794.D
Acq: 6 Oct 2021 7:37

Tgt Ion: 39 Resp: 843129
Ion Ratio Lower Upper
39 100
54 68.7 61.7 92.5



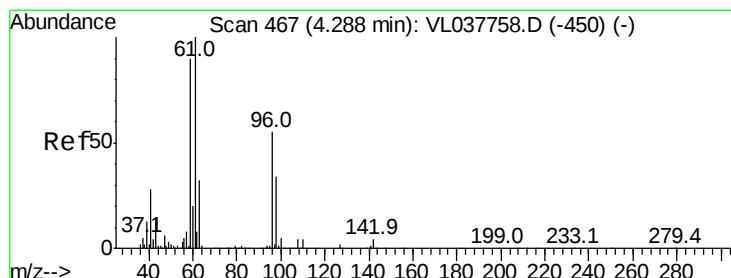
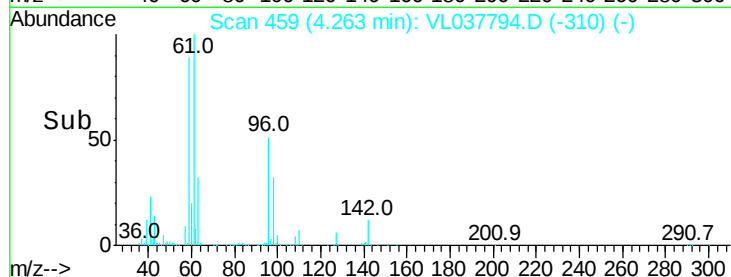
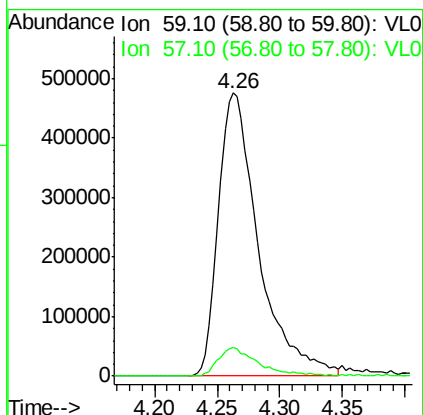
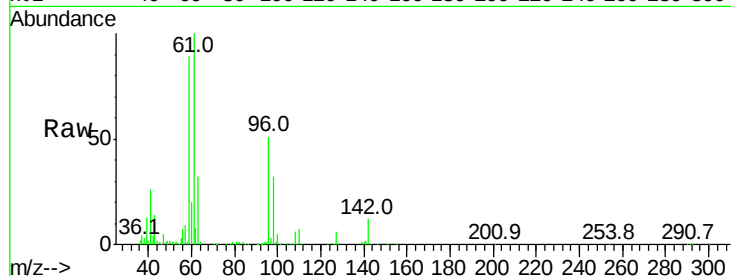


#17

tert-Butyl alcohol
 Concen: 9.044 ppbv
 RT: 4.26 min Scan# 459
 Delta R.T. -0.02 min
 Lab File: VL037794.D
 Acq: 6 Oct 2021 7:37

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

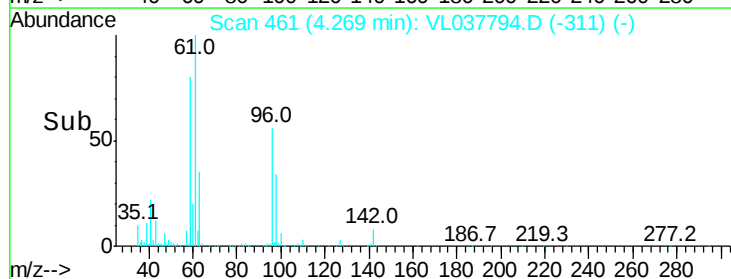
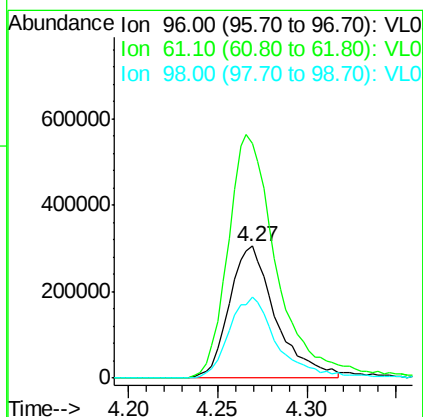
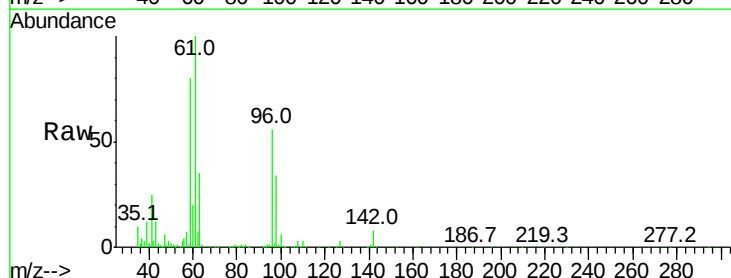
Tgt Ion: 59 Resp: 1054028
 Ion Ratio Lower Upper
 59 100
 57 10.7 8.6 13.0

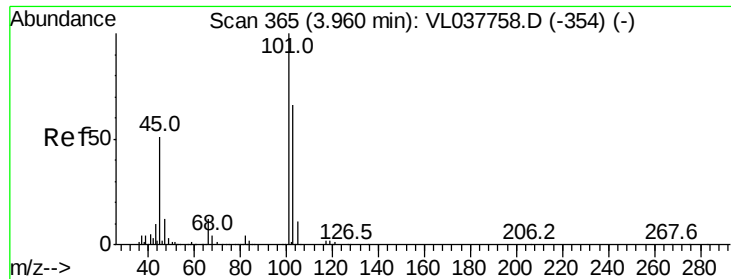


#18

1,1-Dichloroethene
 Concen: 8.862 ppbv
 RT: 4.27 min Scan# 461
 Delta R.T. -0.02 min
 Lab File: VL037794.D
 Acq: 6 Oct 2021 7:37

Tgt Ion: 96 Resp: 548191
 Ion Ratio Lower Upper
 96 100
 61 177.3 146.2 219.4
 98 61.1 50.0 75.0





#19

Isopropyl Alcohol

Concen: 9.544 ppbv

RT: 3.94 min Scan# 358

Delta R.T. -0.02 min

Lab File: VL037794.D

Acq: 6 Oct 2021 7:37

Instrument :

MSVOA_L

ClientSampleId :

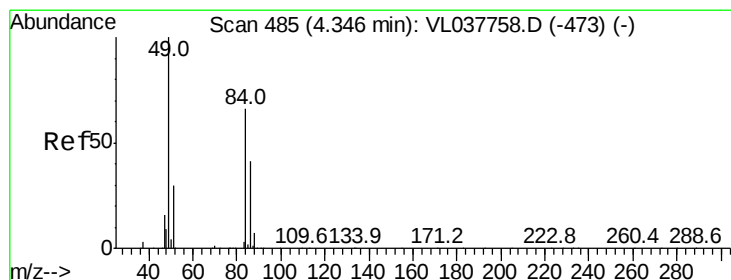
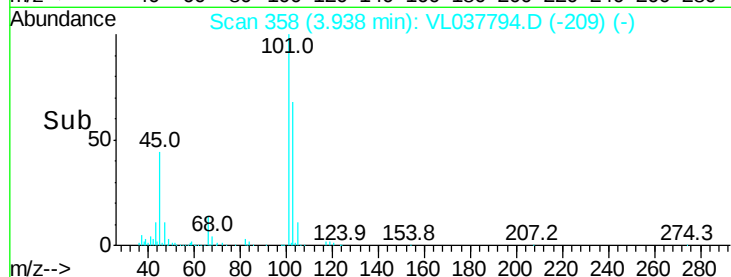
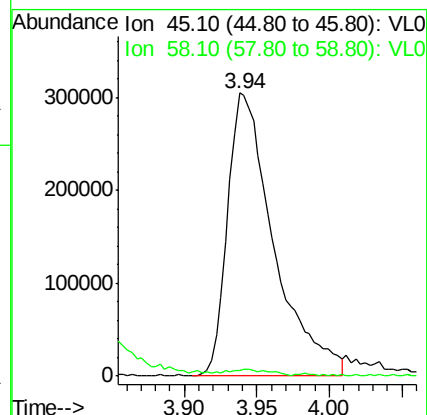
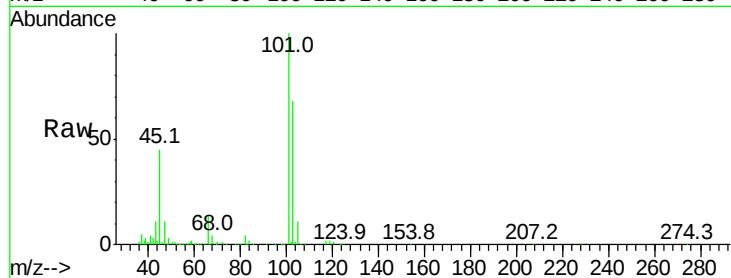
VSTDCCC010EC

Tgt Ion: 45 Resp: 671946

Ion Ratio Lower Upper

45 100

58 2.5 1.1 1.7#



#20

Methylene Chloride

Concen: 7.989 ppbv

RT: 4.32 min Scan# 477

Delta R.T. -0.03 min

Lab File: VL037794.D

Acq: 6 Oct 2021 7:37

Tgt Ion: 84 Resp: 456829

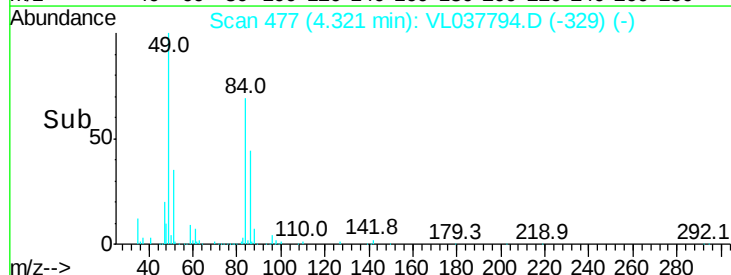
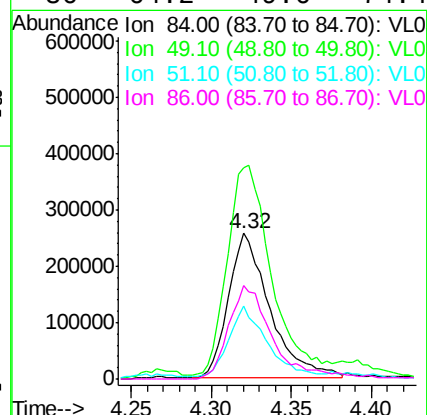
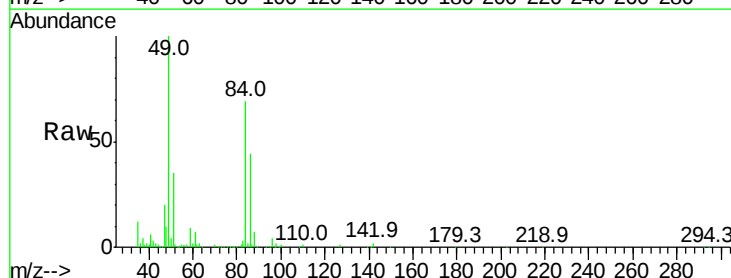
Ion Ratio Lower Upper

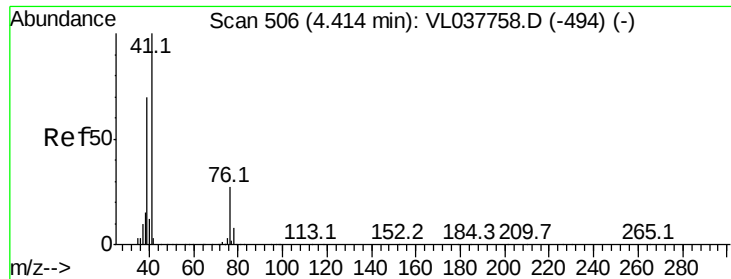
84 100

49 142.5 120.7 181.1

51 48.7 36.2 54.4

86 64.2 49.6 74.4





#21

Allyl Chloride

Concen: 7.723 ppbv

RT: 4.39 min Scan# 498

Delta R.T. -0.03 min

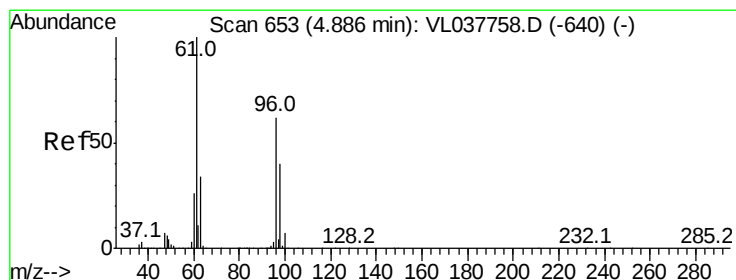
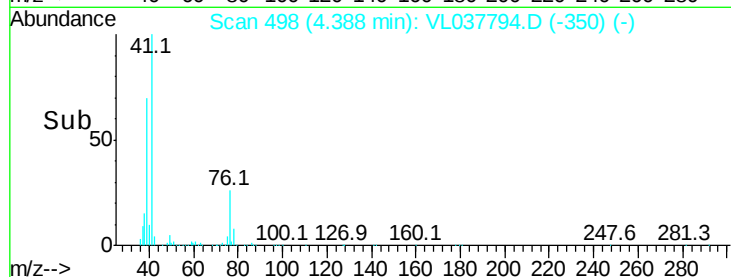
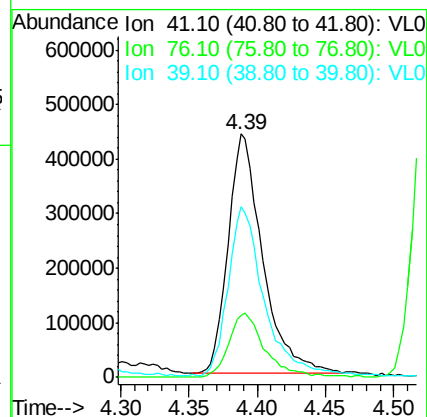
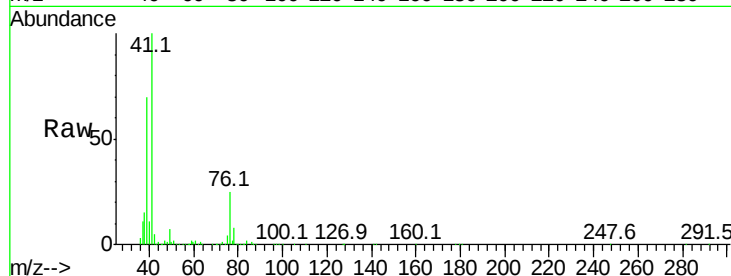
Lab File: VL037794.D

Acq: 6 Oct 2021 7:37

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tgt Ion: 41 Resp: 774275

Ion	Ratio	Lower	Upper
41	100		
76	28.2	22.4	33.6
39	74.3	58.0	87.0



#22

trans-1,2-Dichloroethene

Concen: 9.348 ppbv

RT: 4.86 min Scan# 645

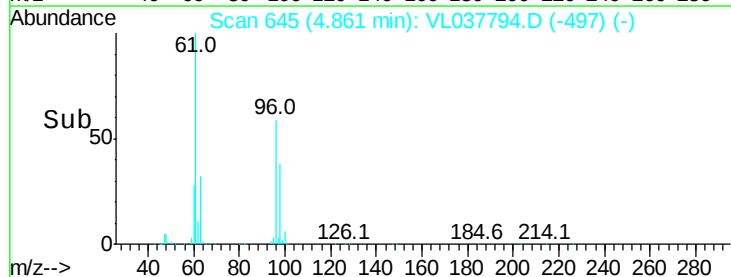
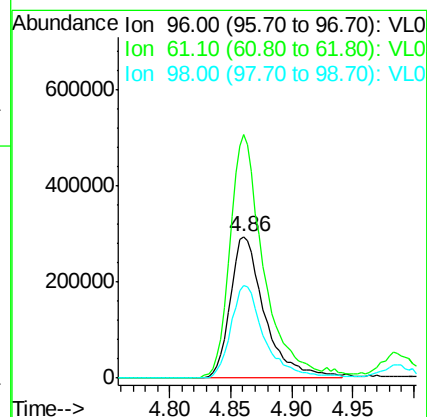
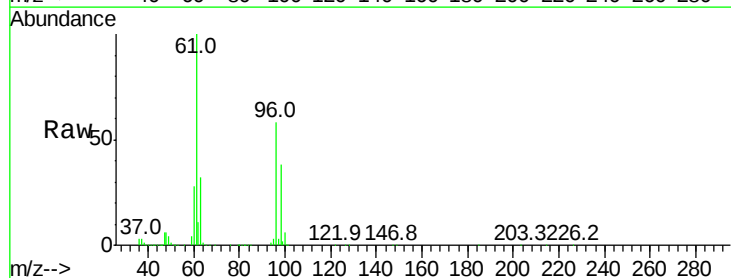
Delta R.T. -0.03 min

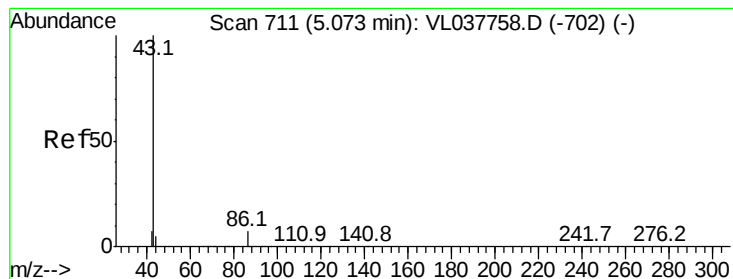
Lab File: VL037794.D

Acq: 6 Oct 2021 7:37

Tgt Ion: 96 Resp: 581351

Ion	Ratio	Lower	Upper
96	100		
61	171.8	129.0	193.6
98	65.4	51.7	77.5





#23

Vinyl Acetate

Concen: 8.136 ppbv

RT: 5.05 min Scan# 703

Delta R.T. -0.03 min

Lab File: VL037794.D

Acq: 6 Oct 2021 7:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 43 Resp: 1379793

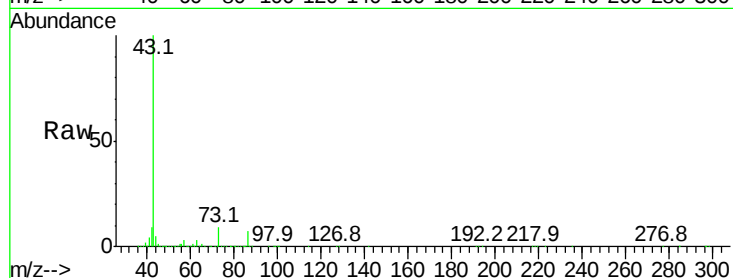
Ion Ratio Lower Upper

43 100

86 6.7 5.0 7.4

42 8.7 7.4 11.0

44 4.5 3.8 5.6

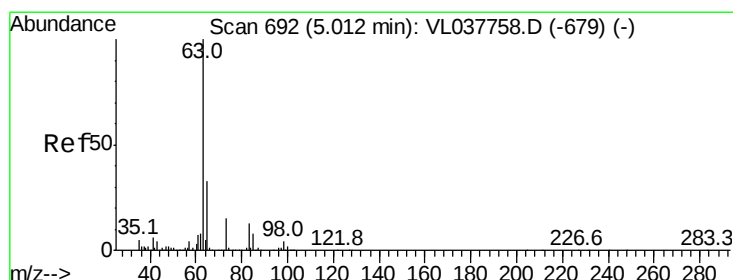
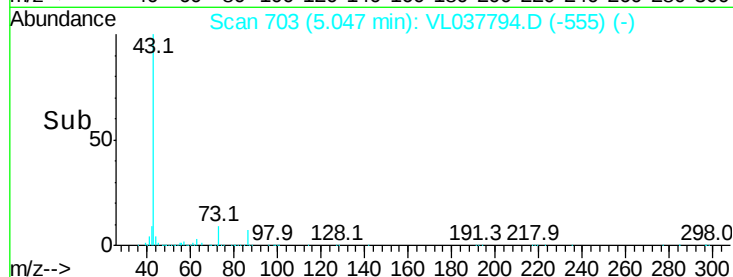
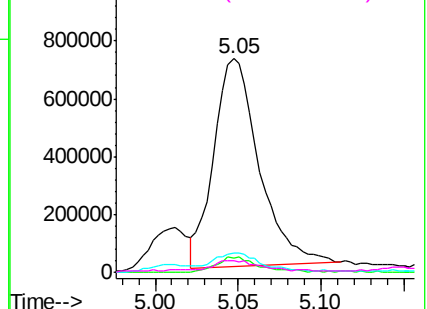


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.647 ppbv

RT: 4.99 min Scan# 684

Delta R.T. -0.03 min

Lab File: VL037794.D

Acq: 6 Oct 2021 7:37

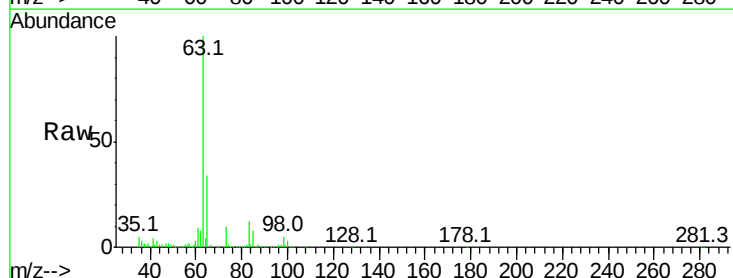
Tgt Ion: 63 Resp: 1190935

Ion Ratio Lower Upper

63 100

98 4.5 2.3 6.9

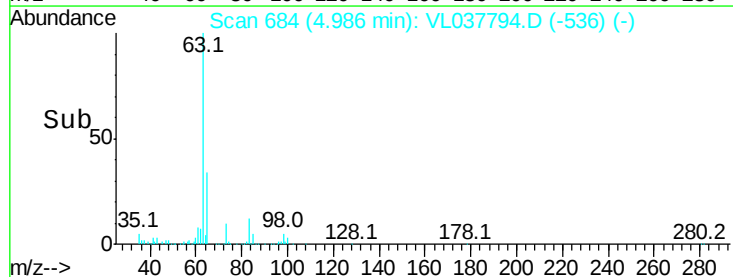
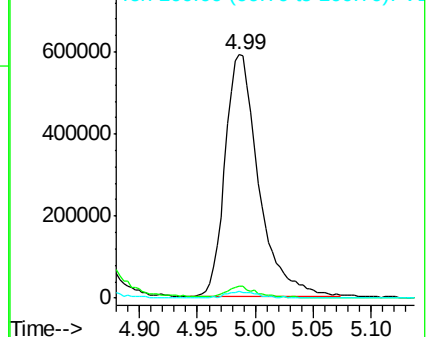
100 2.7 1.1 3.1

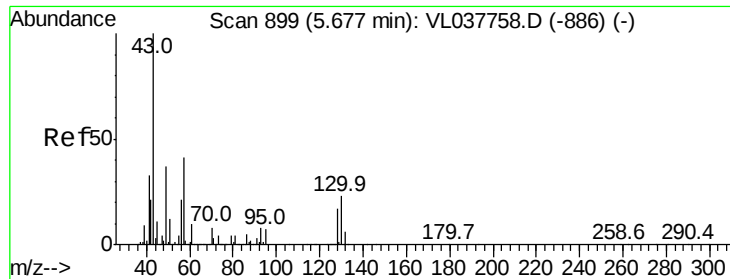


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 8.988 ppbv

RT: 5.65 min Scan# 891

Delta R.T. -0.03 min

Lab File: VL037794.D

Acq: 6 Oct 2021 7:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tgt Ion: 43 Resp: 2854326

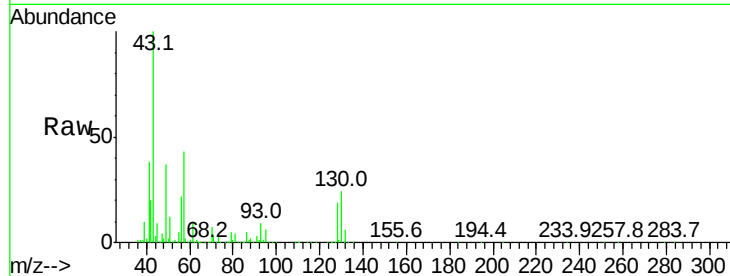
Ion Ratio Lower Upper

43 100

45 10.0 8.1 12.1

61 9.7 7.5 11.3

70 7.1 5.9 8.9

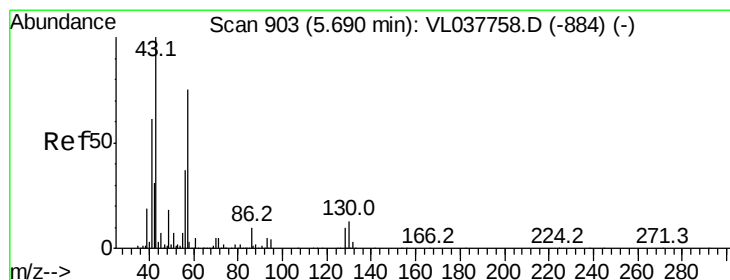
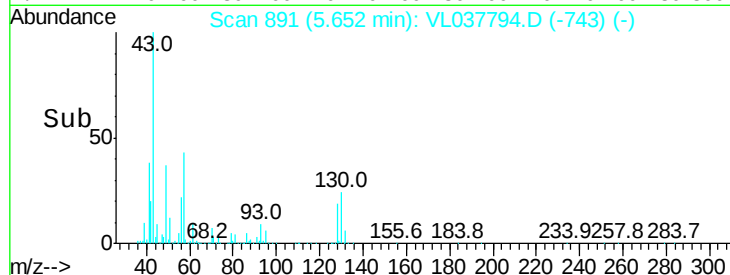
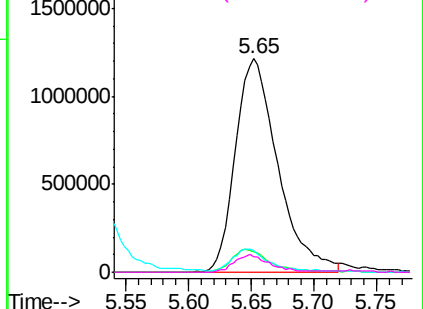


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 9.104 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.03 min

Lab File: VL037794.D

Acq: 6 Oct 2021 7:37

Tgt Ion: 57 Resp: 1423634

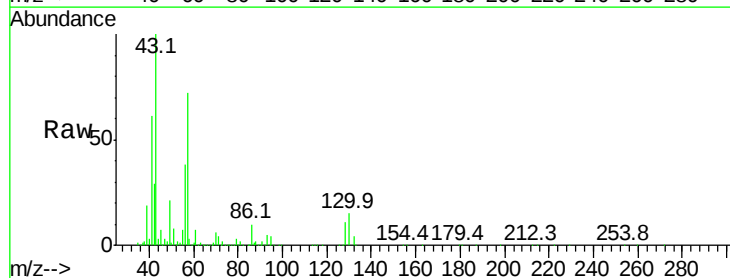
Ion Ratio Lower Upper

57 100

41 91.2 69.6 104.4

43 206.4 171.4 257.0

56 53.5 42.0 63.0

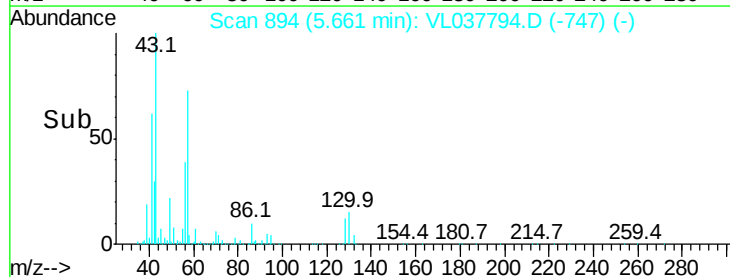
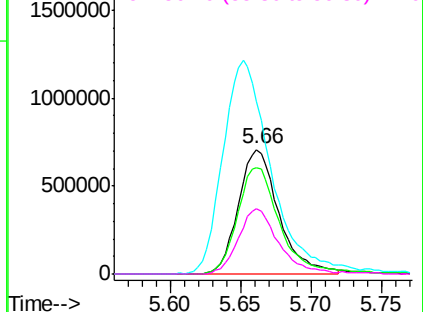


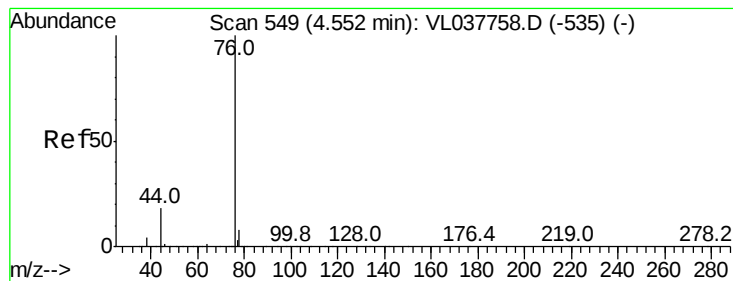
Abundance Ion 57.10 (56.80 to 57.80): VL0

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





#27

Carbon Disulfide

Concen: 9.800 ppbv

RT: 4.53 min Scan# 541

Delta R.T. -0.03 min

Lab File: VL037794.D

Acq: 6 Oct 2021 7:37

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

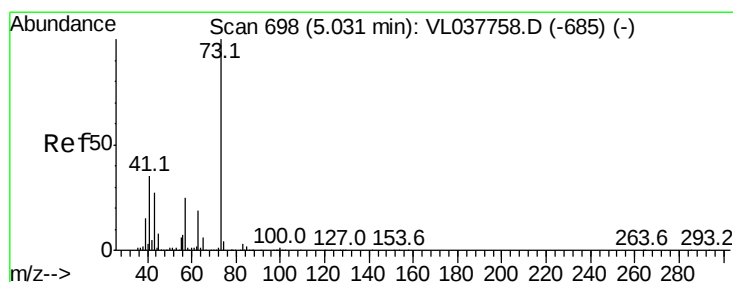
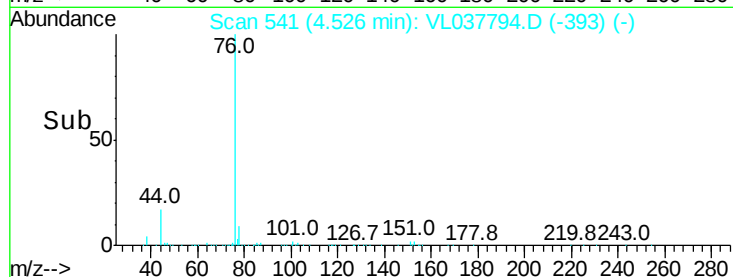
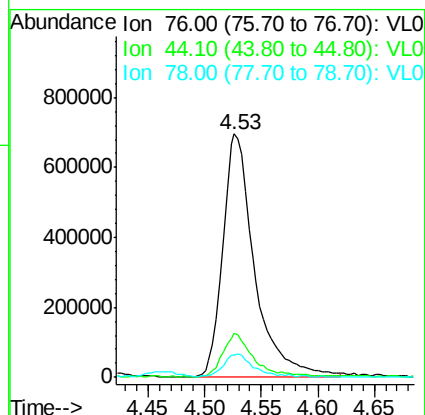
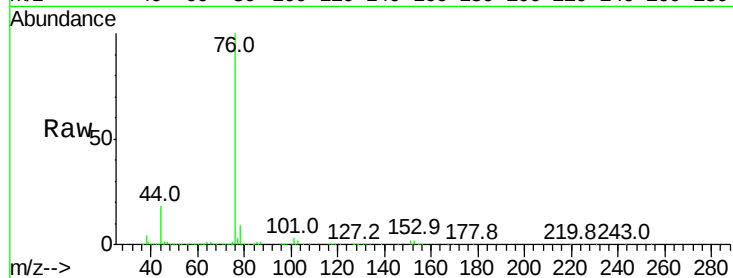
Tgt Ion: 76 Resp: 1358087

Ion	Ratio	Lower	Upper
76	100		
44	17.6	14.3	21.5
78	9.5	7.8	11.6

76 100

44 17.6 14.3 21.5

78 9.5 7.8 11.6



#28

Methyl tert-Butyl Ether

Concen: 8.684 ppbv

RT: 5.01 min Scan# 692

Delta R.T. -0.02 min

Lab File: VL037794.D

Acq: 6 Oct 2021 7:37

Tgt Ion: 73 Resp: 1130628

Ion	Ratio	Lower	Upper
73	100		
57	25.0	20.4	30.6

73 100

57 25.0 20.4 30.6

