

Data File : VL037455.D
Acq On : 16 Aug 2021 10:27
Operator : SY/AP
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Quant Time: Aug 16 11:28:20 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL081621AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 13 01:37:35 2021
QLast Update : Fri Aug 13 01:37:35 2021
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1585666	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	4742489	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.06	117	4154948	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	3055545	10.25	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.04	85	2165835	8.940	ppbv	96
3) Chlorodifluoromethane	2.98	51	2694283	8.653	ppbv	98
4) Chloromethane	3.13	50	1042201	9.311	ppbv	95
5) Vinyl Chloride	3.25	62	992929	8.051	ppbv	97
6) Bromomethane	3.47	94	554219	8.666	ppbv	97
7) Chloroethane	3.55	64	350573	8.609	ppbv	98
8) Dichlorotetrafluoroethane	3.18	85	2335151	8.637	ppbv	100
9) Propene	3.00	41	976612	9.340	ppbv	100
10) Heptane	8.10	43	2371719	9.328	ppbv	99
11) Trichlorofluoromethane	3.94	101	2119063	8.084	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.47	101	1519915	8.277	ppbv	96
13) Ethanol	3.60	45	54769	4.908	ppbv #	54
14) Bromoethene	3.73	108	741005	9.072	ppbv	98
15) Acetone	3.84	43	1266342	7.530	ppbv	99
16) 1,3-Butadiene	3.32	39	970736	8.601	ppbv	97
17) tert-Butyl alcohol	4.27	59	1470076	9.159	ppbv	99
18) 1,1-Dichloroethene	4.28	96	716521	8.404	ppbv	94
19) Isopropyl Alcohol	3.95	45	848604	8.671	ppbv #	97
20) Methylene Chloride	4.33	84	607918	6.837	ppbv	98
21) Allyl Chloride	4.40	41	1197839	9.090	ppbv	95
22) trans-1,2-Dichloroethene	4.87	96	708048	8.854	ppbv	96
23) Vinyl Acetate	5.06	43	2389882	9.262	ppbv	99
24) 1,1-Dichloroethane	5.00	63	1579958	7.883	ppbv	100
25) Ethyl Acetate	5.66	43	3787402	9.450	ppbv	99
26) Hexane	5.67	57	1778353	8.598	ppbv	98
27) Carbon Disulfide	4.54	76	1705399	9.780	ppbv	99
28) Methyl tert-Butyl Ether	5.02	73	1864114	8.422	ppbv	99
29) Chloroform	5.74	83	2567952	8.819	ppbv	100
30) Cyclohexane	7.11	84	1542518	9.056	ppbv	99
31) cis-1,2-Dichloroethene	5.53	61	1741364	9.741	ppbv	98
32) 1,1,1-Trichloroethane	6.50	97	2561058	8.715	ppbv	99
34) 2-Butanone	5.23	43	1656824	8.462	ppbv	97
35) Carbon Tetrachloride	7.00	117	2643134	9.038	ppbv	100
36) Benzene	6.87	78	3724779	9.314	ppbv	99
37) 1,2-Dichloroethane	6.29	62	1846840	9.050	ppbv	98
38) Trichloroethene	7.82	130	1438400	8.149	ppbv	97
39) 1,2-Dichloropropane	7.59	63	1430696	9.392	ppbv	99
40) 1,4-Dioxane	7.82	88	297931	8.037	ppbv #	100
41) Tetrahydrofuran	6.03	42	865069	9.621	ppbv	99
42) Bromodichloromethane	7.77	83	2808787	9.829	ppbv	99
43) Methyl Methacrylate	8.00	69	1363364	10.059	ppbv	99

Data File : VL037455.D
Acq On : 16 Aug 2021 10:27
Operator : SY/AP
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

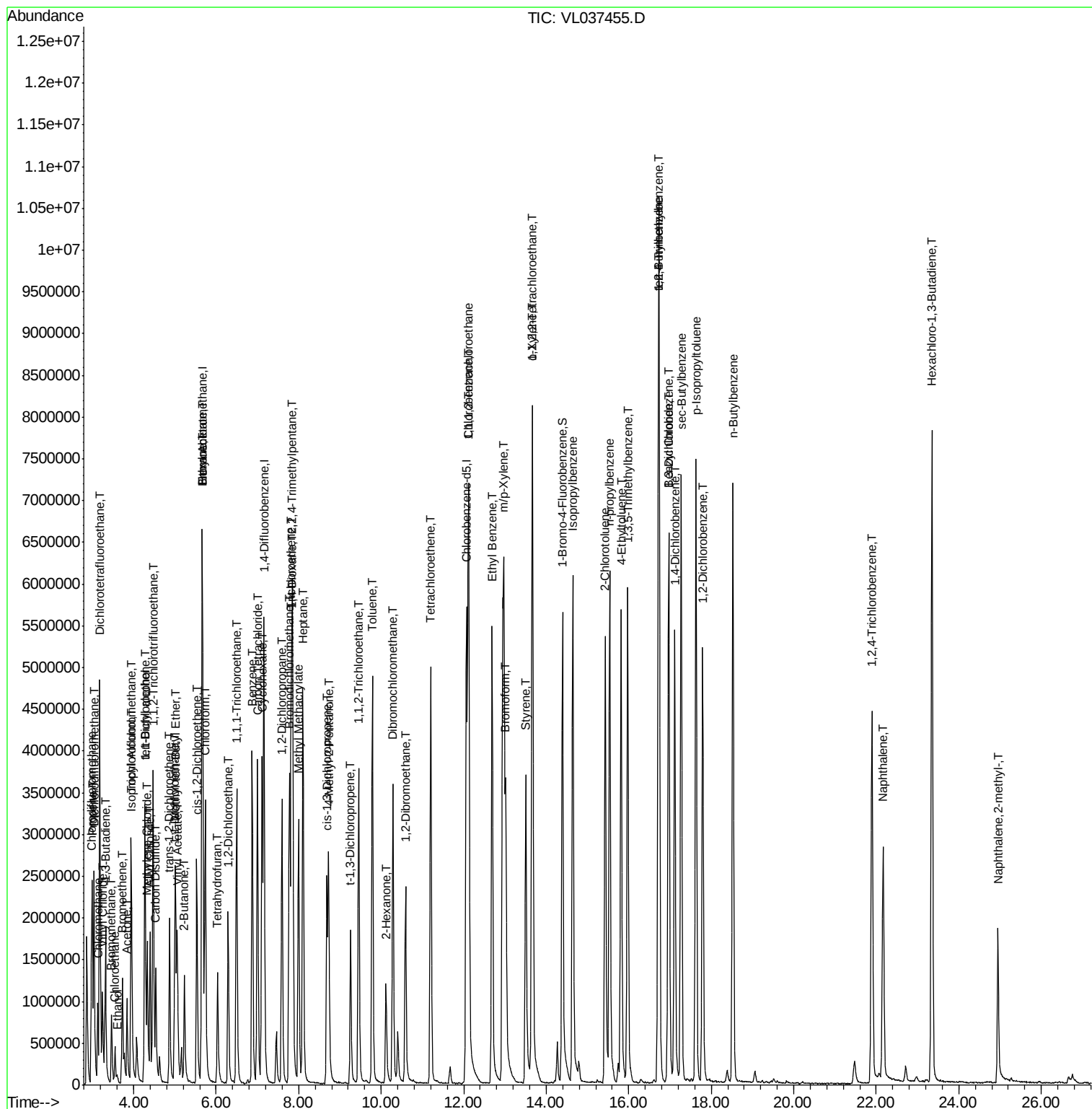
Quant Time: Aug 16 11:28:20 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL081621AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 13 01:37:35 2021
QLast Update : Fri Aug 13 01:37:35 2021
Response via : Initial Calibration

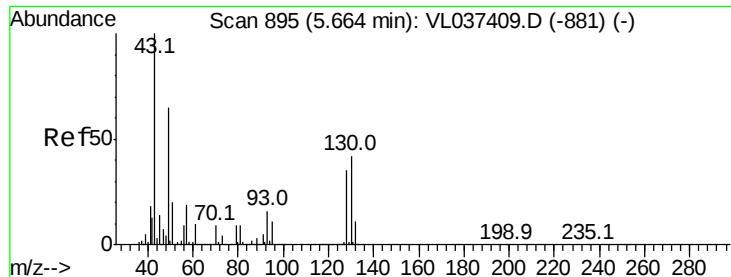
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.85	57	6125466	9.162	ppbv	99
45) t-1,3-Dichloropropene	9.26	75	1188475	11.800	ppbv	99
46) cis-1,3-Dichloropropene	8.68	75	1528328	10.870	ppbv	99
47) 1,1,2-Trichloroethane	9.46	97	1511782	9.180	ppbv	97
48) Dibromochloromethane	10.28	129	2441622	10.276	ppbv	99
49) Bromoform	13.02	173	1979127	10.993	ppbv	96
50) 4-Methyl-2-Pentanone	8.72	43	2432555	9.876	ppbv	100
51) 2-Hexanone	10.11	43	1140764	9.844	ppbv #	98
52) Tetrachloroethene	11.20	164	1403146	8.329	ppbv	98
53) Toluene	9.78	91	4371063	9.574	ppbv	100
54) 1,2-Dibromoethane	10.59	107	2201369	9.822	ppbv	95
56) 1,1,1,2-Tetrachloroethane	12.10	131	1631951	9.866	ppbv	97
57) Chlorobenzene	12.13	112	3158234	9.379	ppbv	97
58) Ethyl Benzene	12.69	91	5474973	9.714	ppbv	98
59) m/p-Xylene	12.97	91	4856373	9.809	ppbv #	33
60) o-Xylene	13.67	91	4326227	9.406	ppbv	99
61) Styrene	13.51	104	2526817	10.874	ppbv	99
62) Isopropylbenzene	14.65	105	6095299	9.266	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.65	83	3150657	9.083	ppbv	99
64) n-propylbenzene	15.54	120	1639816	9.907	ppbv	93
65) tert-Butylbenzene	16.73	119	5490426	9.256	ppbv	99
66) Benzyl Chloride	16.97	91	311359	11.471	ppbv	96
67) sec-Butylbenzene	17.27	105	7632493	9.456	ppbv	100
69) p-Isopropyltoluene	17.63	119	6433184	9.711	ppbv	99
70) n-Butylbenzene	18.53	91	6351870	10.316	ppbv	100
71) 2-Chlorotoluene	15.43	91	4530521	9.738	ppbv	99
72) 4-Ethyltoluene	15.82	105	5356273	10.032	ppbv	98
73) 1,3,5-Trimethylbenzene	15.97	105	4824497	9.558	ppbv	100
74) 1,2,4-Trimethylbenzene	16.74	105	5040472	9.754	ppbv #	90
75) 1,3-Dichlorobenzene	16.97	146	3022035	9.555	ppbv	98
76) 1,4-Dichlorobenzene	17.11	146	3003958	9.581	ppbv	99
77) 1,2-Dichlorobenzene	17.79	146	3015168	9.909	ppbv	99
78) Hexachloro-1,3-Butadiene	23.35	225	2284455	9.268	ppbv	99
79) Naphthalene	22.16	128	3973118	14.146	ppbv	98
80) Naphthalene,2-methyl-	24.95	142	1368464	23.068	ppbv	94
81) 1,2,4-Trichlorobenzene	21.90	180	2333585	12.228	ppbv	99

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

ALS Vial : 1 Sample Multiplier: 1

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. -0.02 min

Lab File: VL037455.D

Acq: 16 Aug 2021 10:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

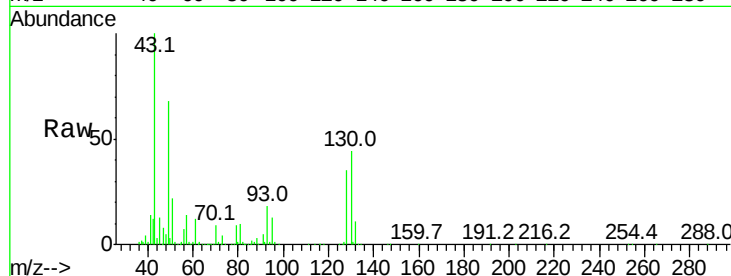
Tgt Ion: 49 Resp: 1585666

Ion Ratio Lower Upper

49 100

128 54.9 27.9 83.6

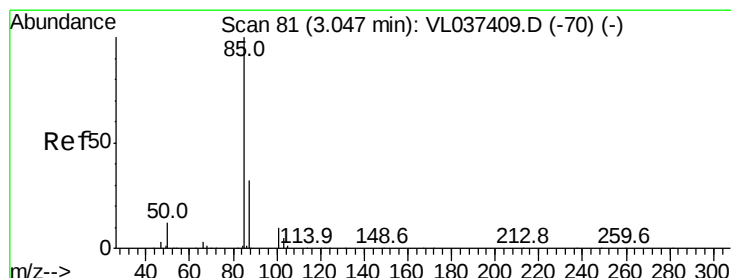
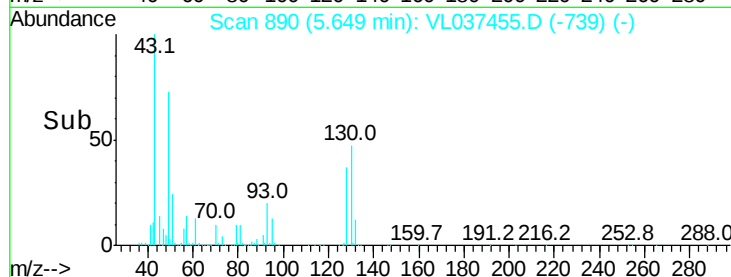
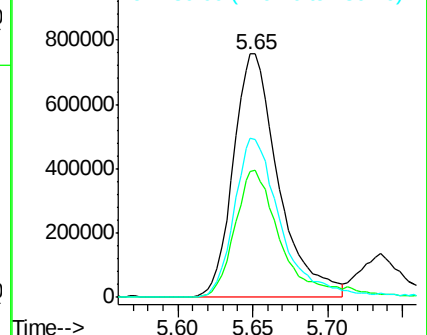
130 67.9 34.6 103.8



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



#2

Dichlorodifluoromethane

Concen: 8.940 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.01 min

Lab File: VL037455.D

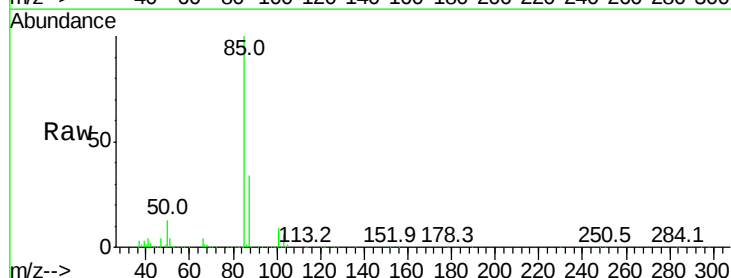
Acq: 16 Aug 2021 10:27

Tgt Ion: 85 Resp: 2165835

Ion Ratio Lower Upper

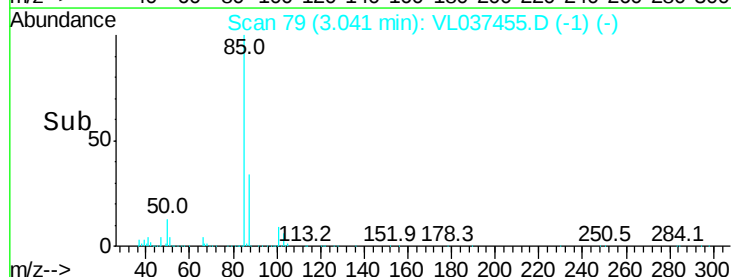
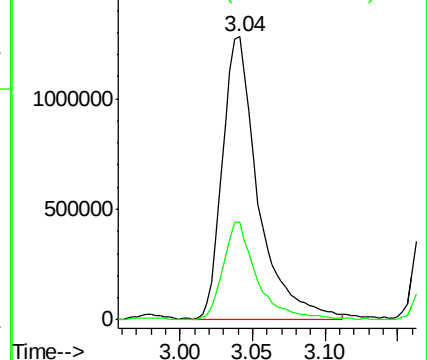
85 100

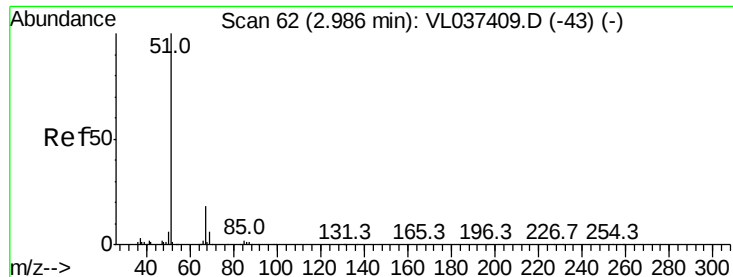
87 34.5 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 8.653 ppbv

RT: 2.98 min Scan# 60

Delta R.T. -0.01 min

Lab File: VL037455.D

Acq: 16 Aug 2021 10:27

Instrument :

MSVOA_L

ClientSampleId :

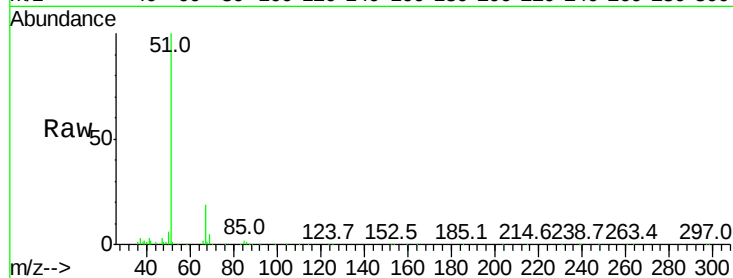
VSTDICCC010

Tgt Ion: 51 Resp: 2694283

Ion Ratio Lower Upper

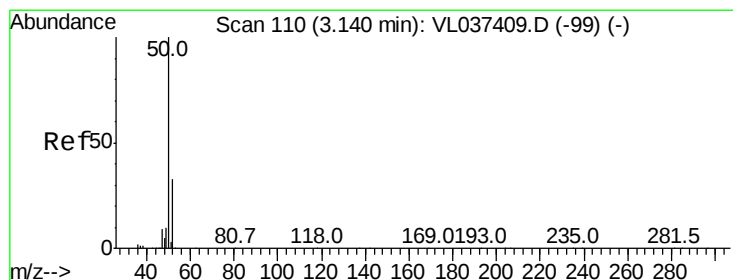
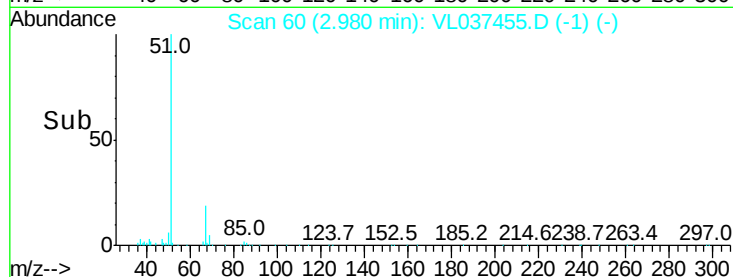
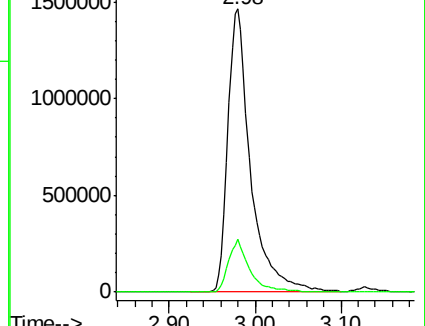
51 100

67 17.7 14.7 22.1



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.311 ppbv

RT: 3.13 min Scan# 106

Delta R.T. -0.01 min

Lab File: VL037455.D

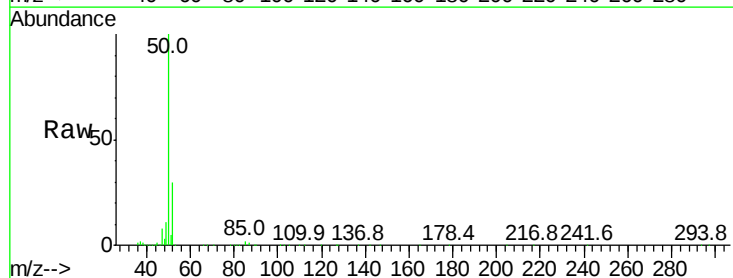
Acq: 16 Aug 2021 10:27

Tgt Ion: 50 Resp: 1042201

Ion Ratio Lower Upper

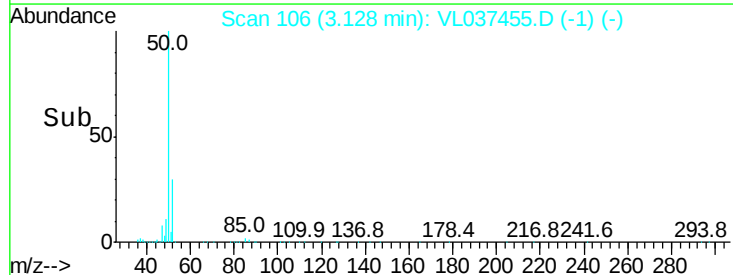
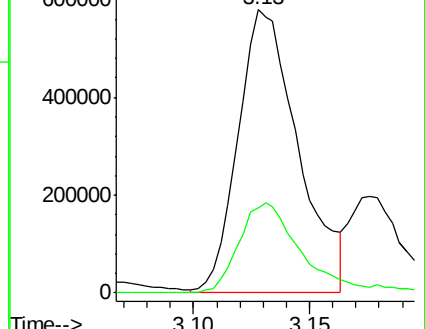
50 100

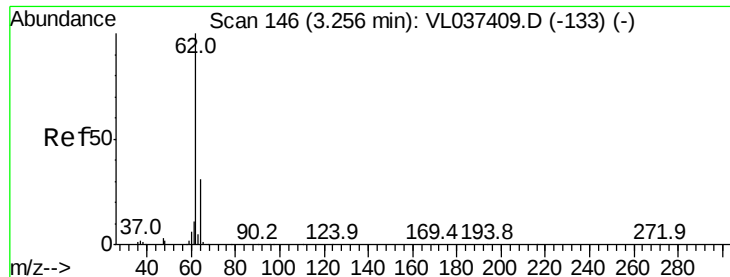
52 30.0 26.2 39.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 8.051 ppbv

RT: 3.25 min Scan# 143

Delta R.T. -0.01 min

Lab File: VL037455.D

Acq: 16 Aug 2021 10:27

Instrument :

MSVOA_L

ClientSampleId :

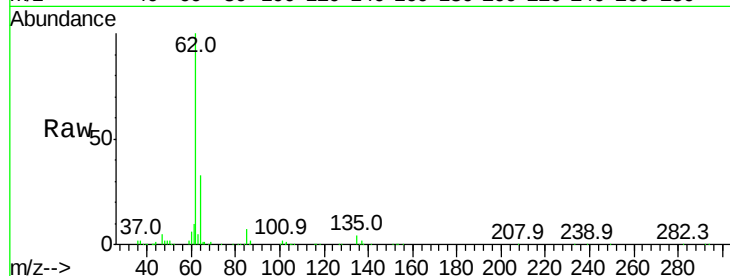
VSTDICCC010

Tgt Ion: 62 Resp: 992929

Ion Ratio Lower Upper

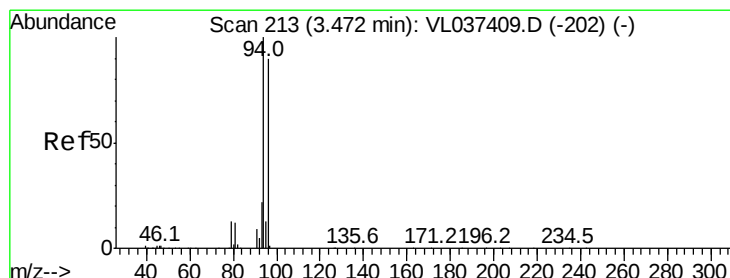
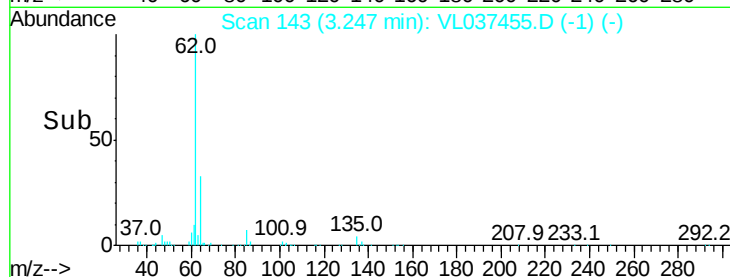
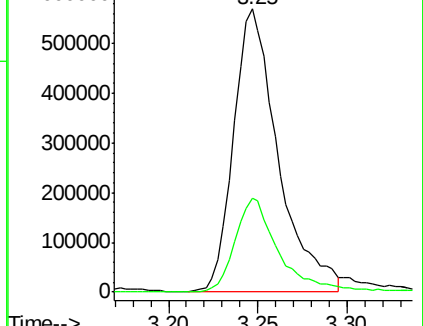
62 100

64 33.1 25.0 37.6



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 8.666 ppbv

RT: 3.47 min Scan# 211

Delta R.T. -0.01 min

Lab File: VL037455.D

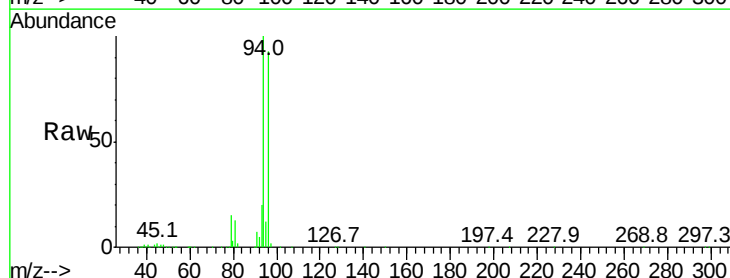
Acq: 16 Aug 2021 10:27

Tgt Ion: 94 Resp: 554219

Ion Ratio Lower Upper

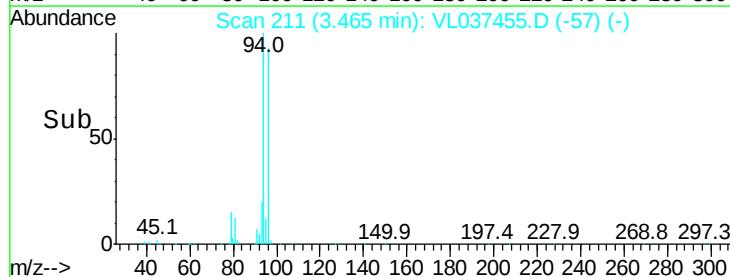
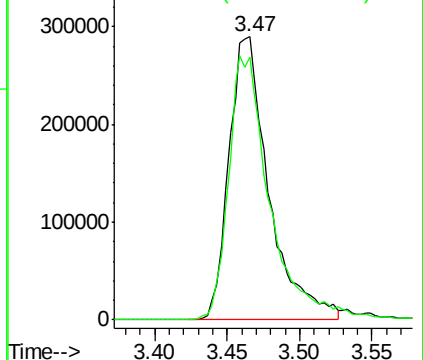
94 100

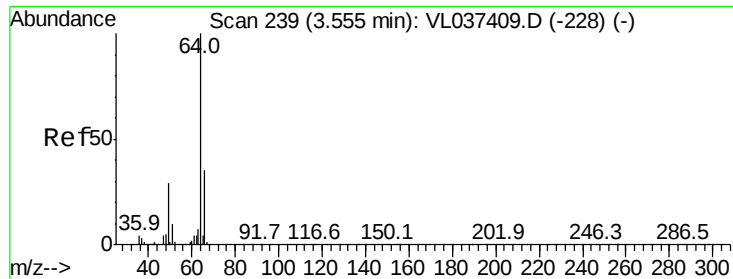
96 93.1 72.2 108.4



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 8.609 ppbv

RT: 3.55 min Scan# 236

Delta R.T. -0.01 min

Lab File: VL037455.D

Acq: 16 Aug 2021 10:27

Instrument :

MSVOA_L

ClientSampleId :

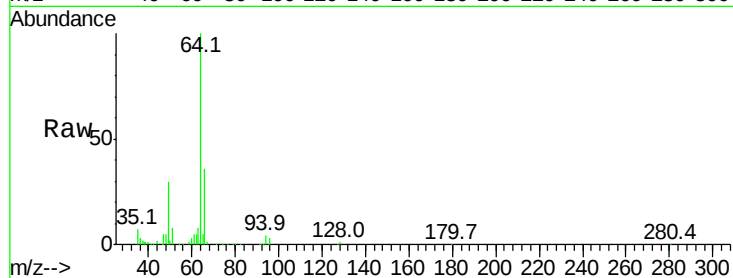
VSTDICCC010

Tgt Ion: 64 Resp: 350573

Ion Ratio Lower Upper

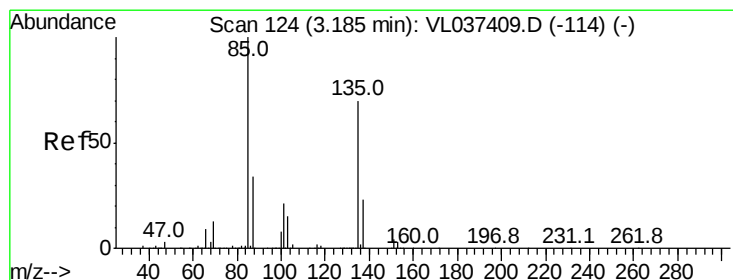
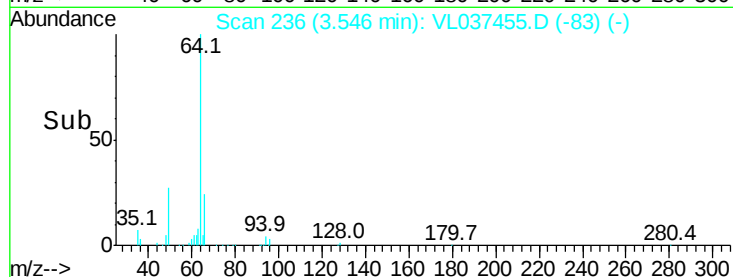
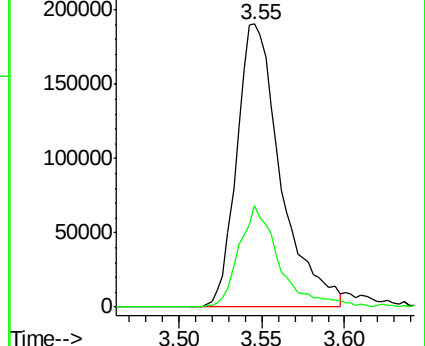
64 100

66 35.8 27.8 41.8



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 8.637 ppbv

RT: 3.18 min Scan# 121

Delta R.T. -0.01 min

Lab File: VL037455.D

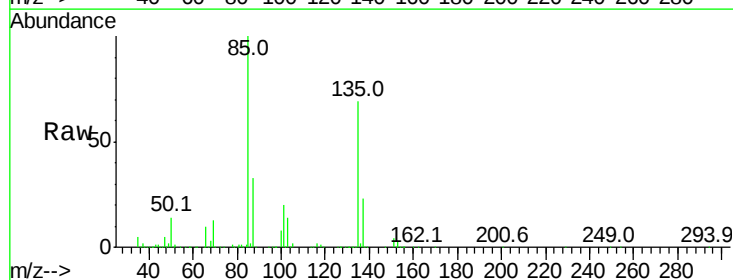
Acq: 16 Aug 2021 10:27

Tgt Ion: 85 Resp: 2335151

Ion Ratio Lower Upper

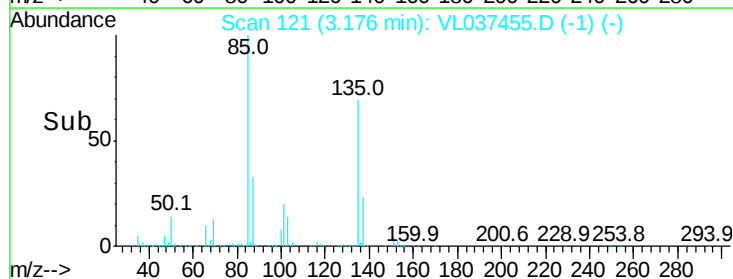
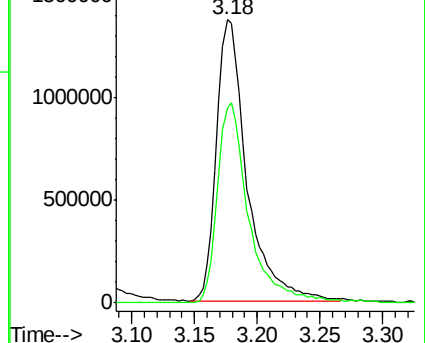
85 100

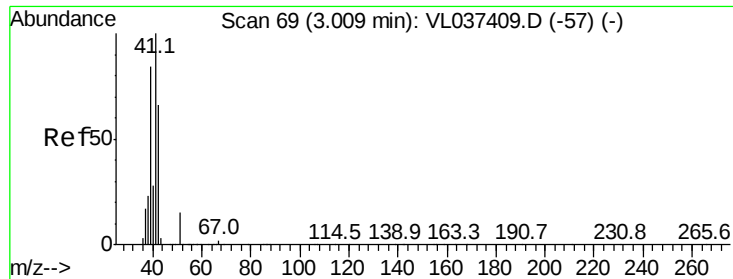
135 73.5 58.6 88.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 9.340 ppbv

RT: 3.00 min Scan# 66

Delta R.T. -0.01 min

Lab File: VL037455.D

Acq: 16 Aug 2021 10:27

Instrument :

MSVOA_L

ClientSampleId :

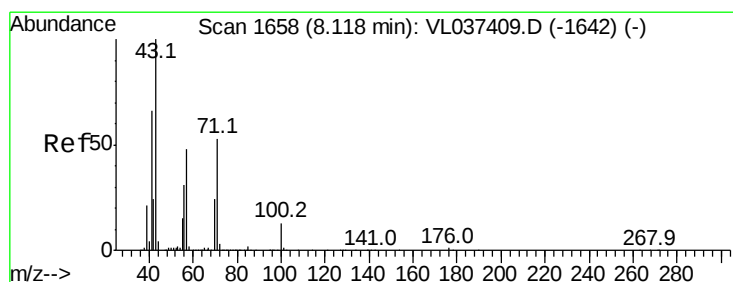
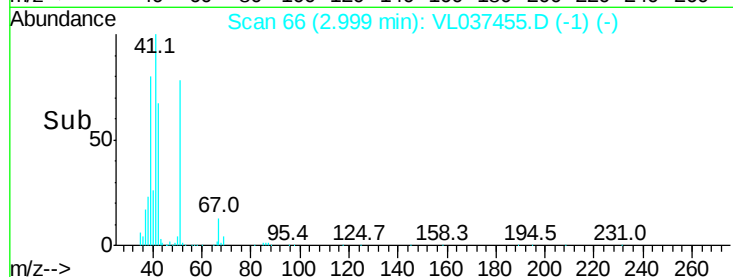
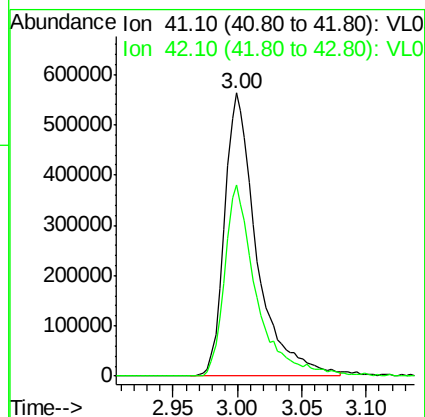
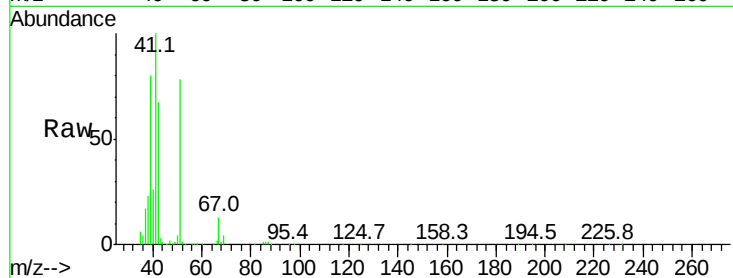
VSTDICCC010

Tgt Ion: 41 Resp: 976612

Ion Ratio Lower Upper

41 100

42 67.1 53.8 80.8



#10

Heptane

Concen: 9.328 ppbv

RT: 8.10 min Scan# 1653

Delta R.T. -0.02 min

Lab File: VL037455.D

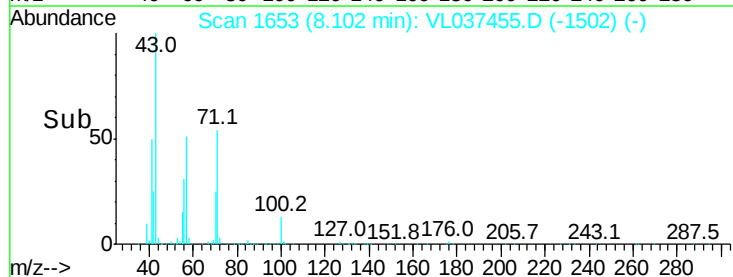
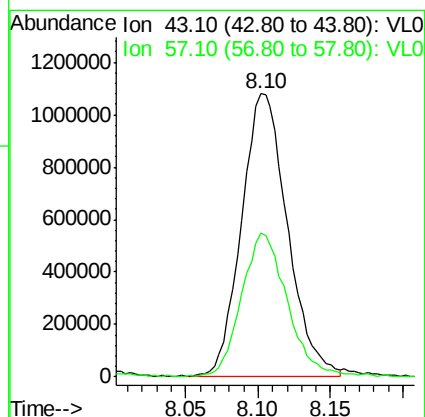
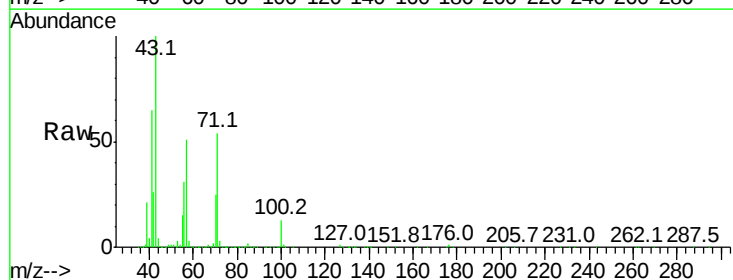
Acq: 16 Aug 2021 10:27

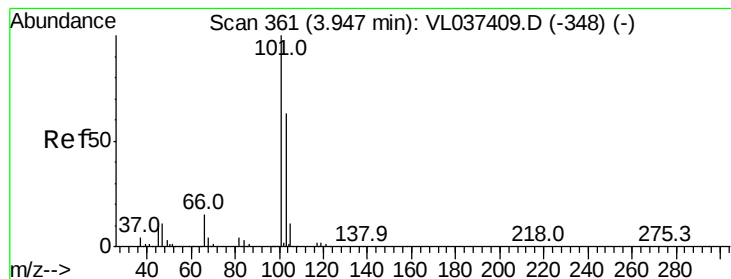
Tgt Ion: 43 Resp: 2371719

Ion Ratio Lower Upper

43 100

57 51.3 40.3 60.5





#11

Trichlorofluoromethane

Concen: 8.084 ppbv

RT: 3.94 min Scan# 358

Delta R.T. -0.01 min

Lab File: VL037455.D

Acq: 16 Aug 2021 10:27

Instrument :

MSVOA_L

ClientSampleId :

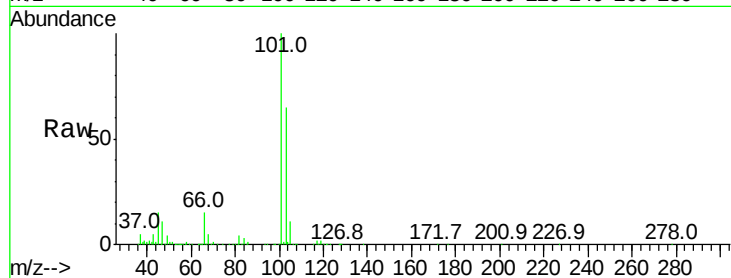
VSTDICCC010

Tgt Ion:101 Resp: 2119063

Ion Ratio Lower Upper

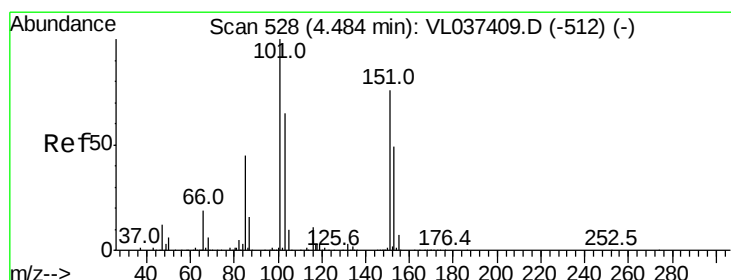
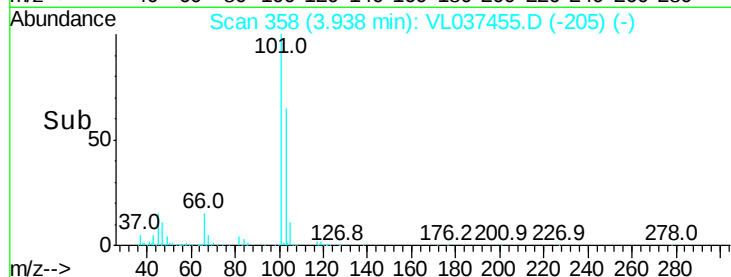
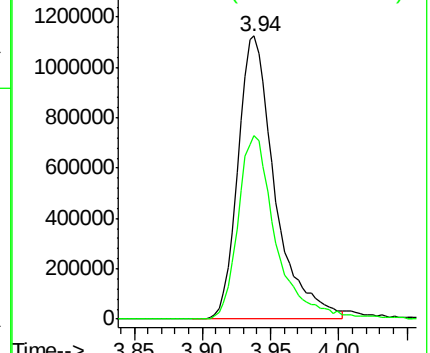
101 100

103 64.7 50.2 75.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 8.277 ppbv

RT: 4.47 min Scan# 524

Delta R.T. -0.01 min

Lab File: VL037455.D

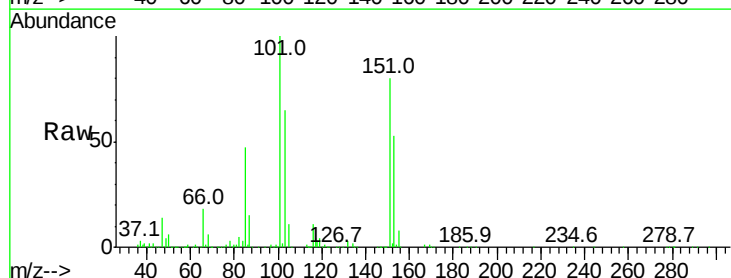
Acq: 16 Aug 2021 10:27

Tgt Ion:101 Resp: 1519915

Ion Ratio Lower Upper

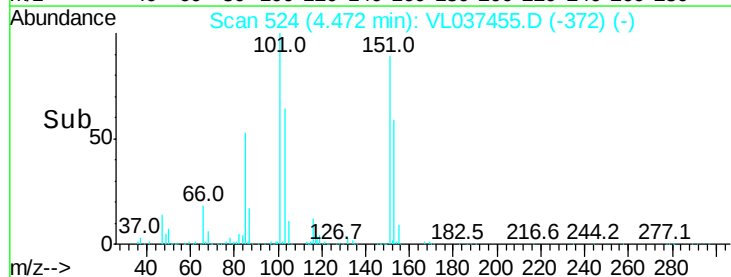
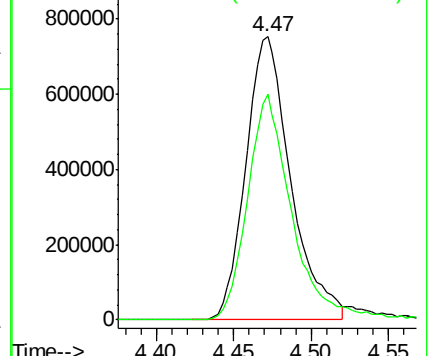
101 100

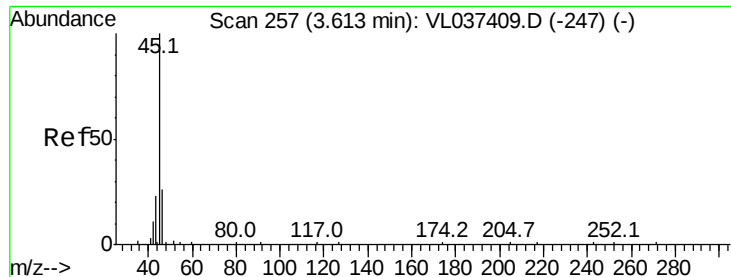
151 79.6 61.2 91.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 4.908 ppbv

RT: 3.60 min Scan# 253

Delta R.T. -0.01 min

Lab File: VL037455.D

Acq: 16 Aug 2021 10:27

Instrument :

MSVOA_L

ClientSampleId :

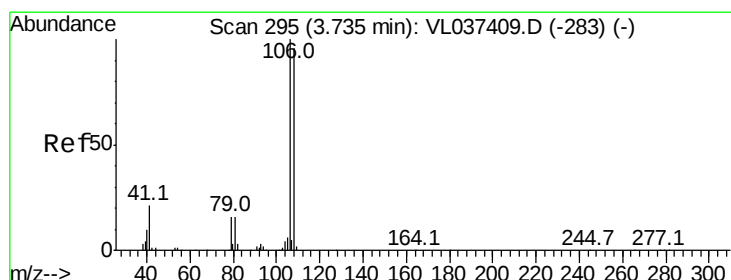
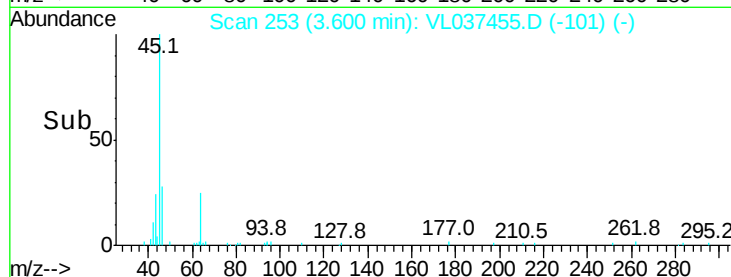
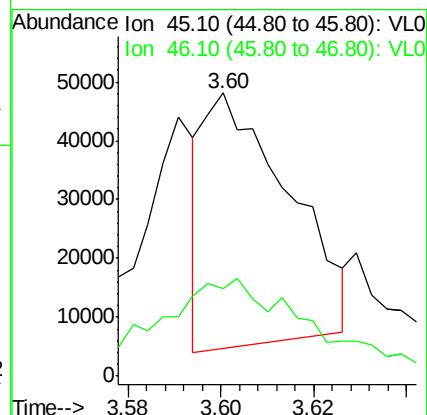
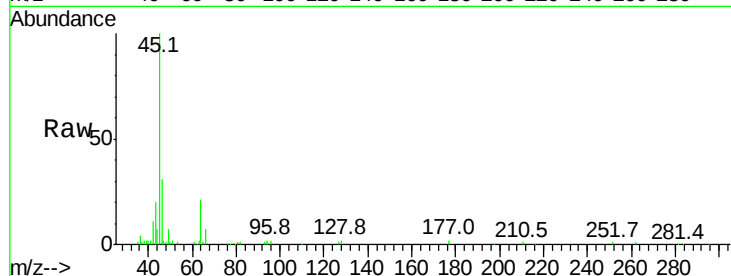
VSTDICCC010

Tgt Ion: 45 Resp: 54769

Ion Ratio Lower Upper

45 100

46 75.0 18.0 72.2#



#14

Bromoethene

Concen: 9.072 ppbv

RT: 3.73 min Scan# 292

Delta R.T. -0.01 min

Lab File: VL037455.D

Acq: 16 Aug 2021 10:27

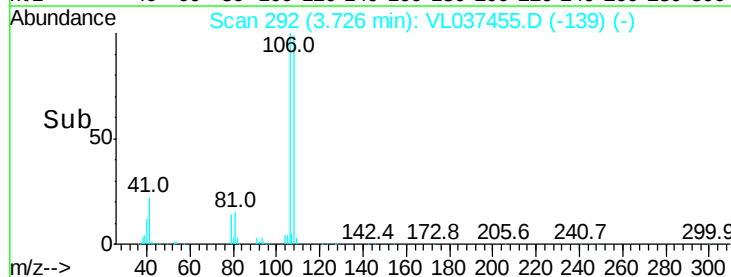
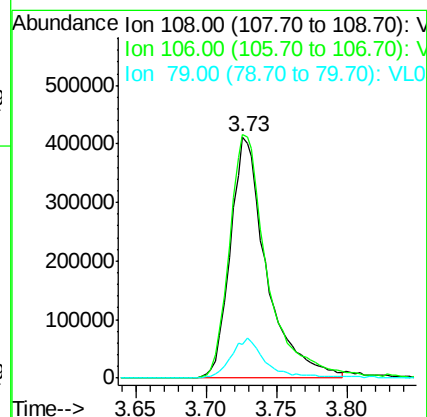
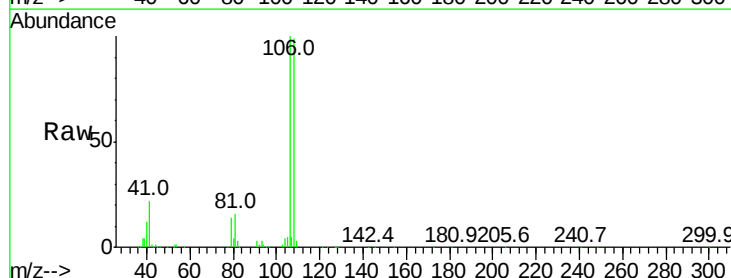
Tgt Ion: 108 Resp: 741005

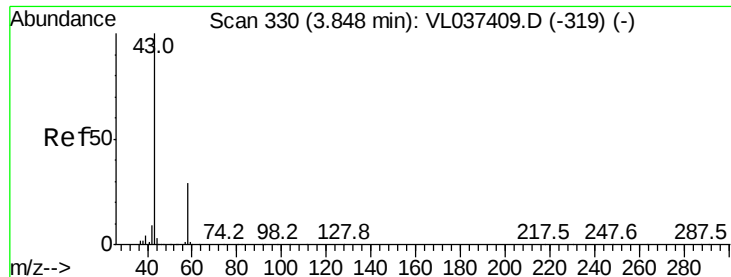
Ion Ratio Lower Upper

108 100

106 107.3 87.5 131.3

79 15.7 13.5 20.3





#15

Acetone

Concen: 7.530 ppbv

RT: 3.84 min Scan# 326

Delta R.T. -0.01 min

Lab File: VL037455.D

Acq: 16 Aug 2021 10:27

Instrument :

MSVOA_L

ClientSampleId :

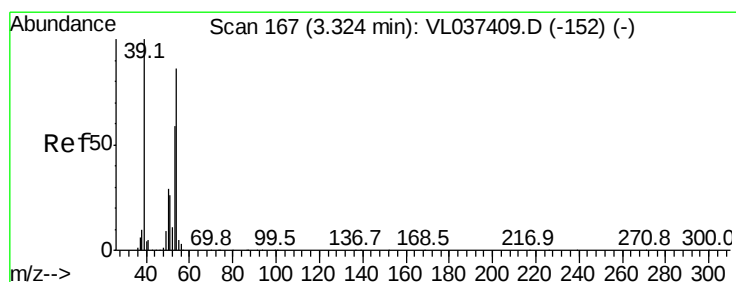
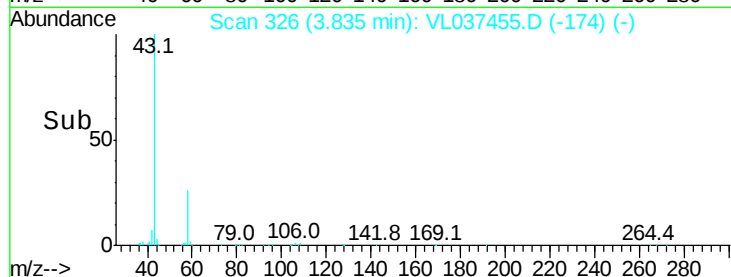
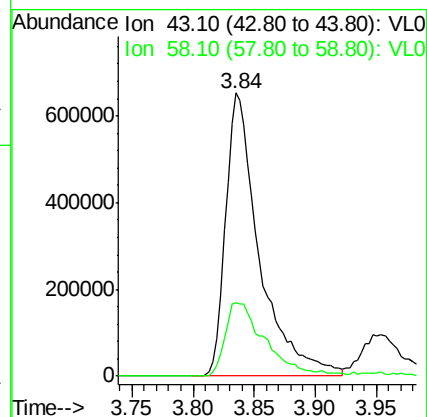
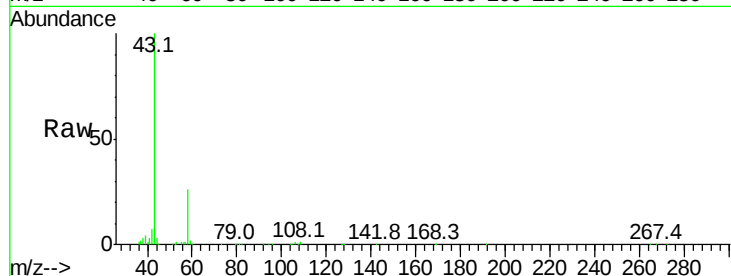
VSTDICCC010

Tgt Ion: 43 Resp: 1266342

Ion Ratio Lower Upper

43 100

58 31.0 24.4 36.6



#16

1,3-Butadiene

Concen: 8.601 ppbv

RT: 3.32 min Scan# 165

Delta R.T. -0.01 min

Lab File: VL037455.D

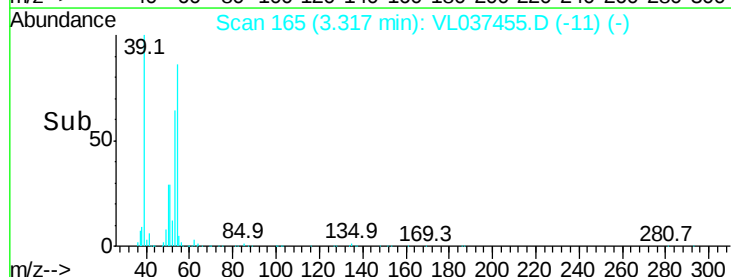
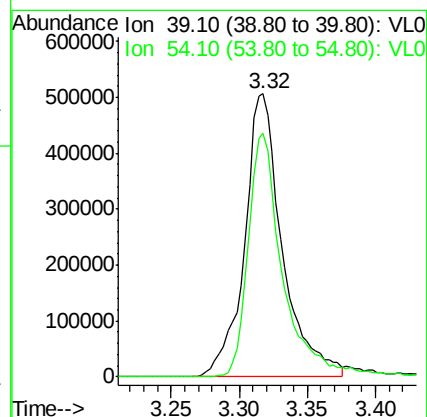
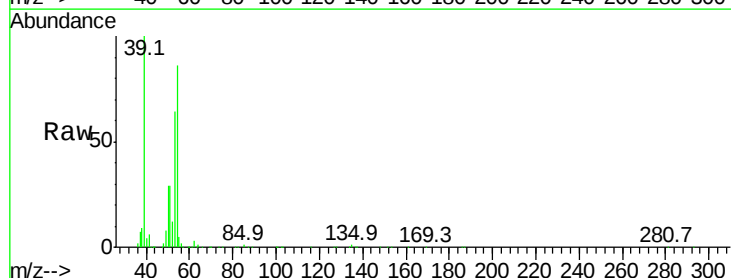
Acq: 16 Aug 2021 10:27

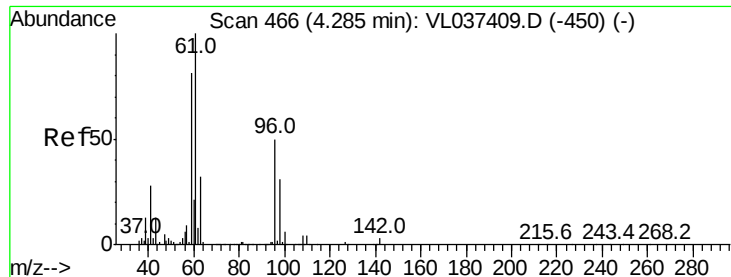
Tgt Ion: 39 Resp: 970736

Ion Ratio Lower Upper

39 100

54 79.6 61.4 92.0





#17

tert-Butyl alcohol

Concen: 9.159 ppbv

RT: 4.27 min Scan# 462

Delta R.T. -0.01 min

Lab File: VL037455.D

Acq: 16 Aug 2021 10:27

Instrument :

MSVOA_L

ClientSampleId :

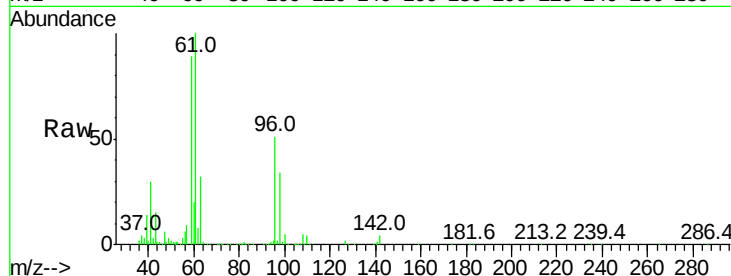
VSTDICCC010

Tgt Ion: 59 Resp: 1470076

Ion Ratio Lower Upper

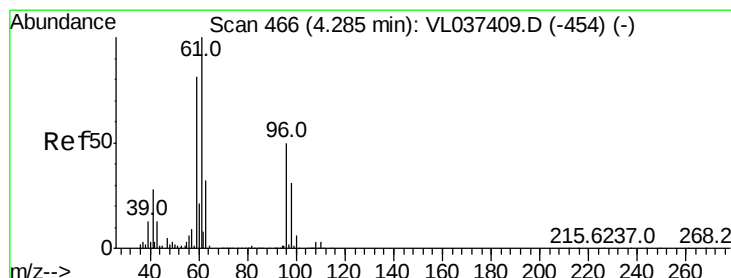
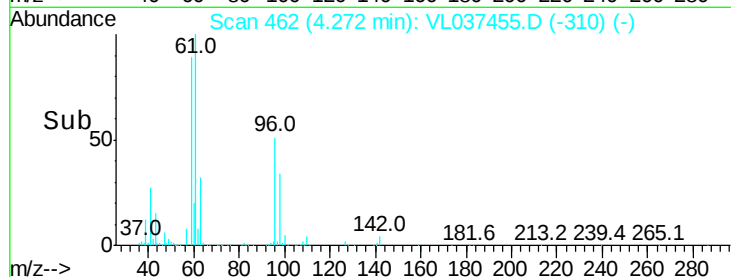
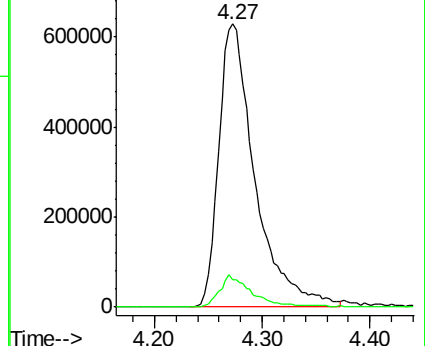
59 100

57 10.4 8.5 12.7



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#18

1,1-Dichloroethene

Concen: 8.404 ppbv

RT: 4.28 min Scan# 463

Delta R.T. -0.01 min

Lab File: VL037455.D

Acq: 16 Aug 2021 10:27

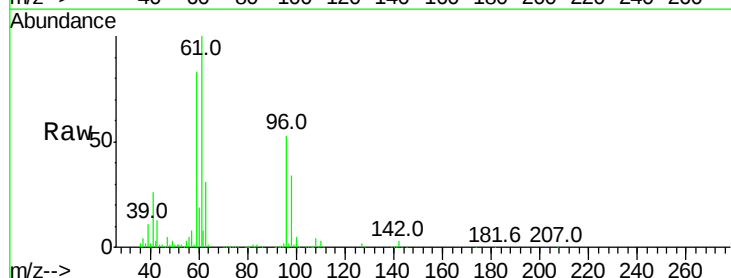
Tgt Ion: 96 Resp: 716521

Ion Ratio Lower Upper

96 100

61 188.9 159.0 238.4

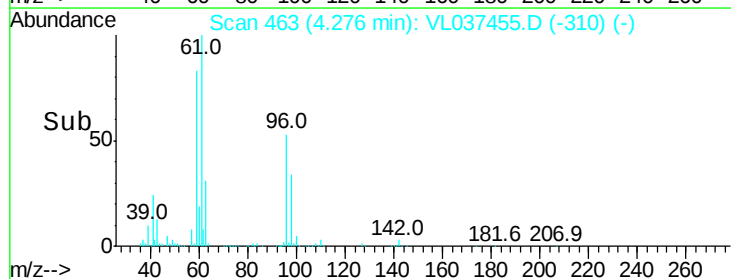
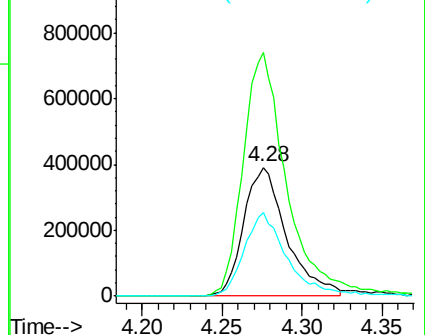
98 64.8 49.4 74.2

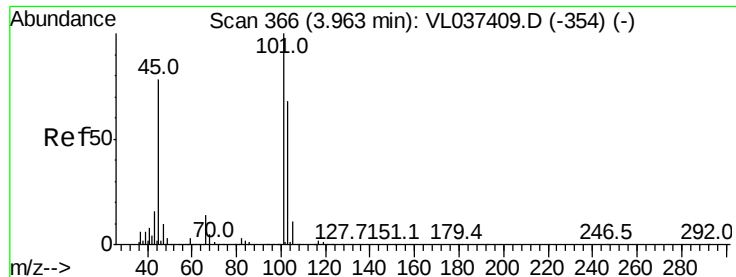


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#19

Isopropyl Alcohol

Concen: 8.671 ppbv

RT: 3.95 min Scan# 363

Delta R.T. -0.01 min

Lab File: VL037455.D

Acq: 16 Aug 2021 10:27

Instrument :

MSVOA_L

ClientSampleId :

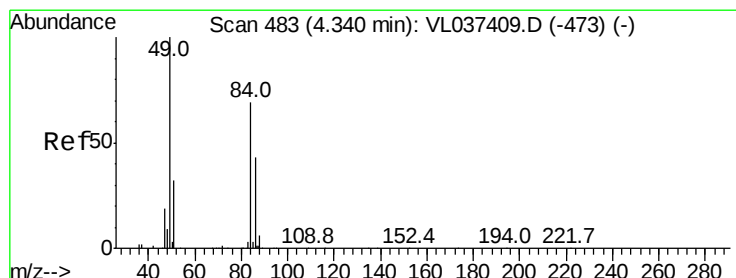
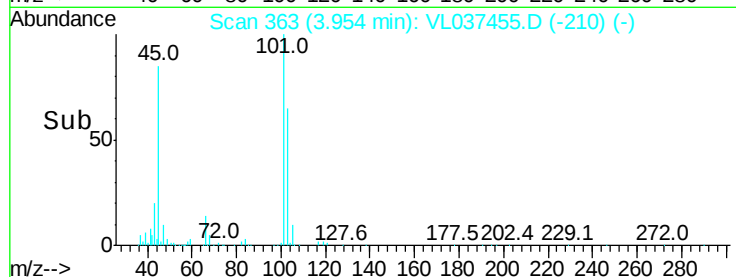
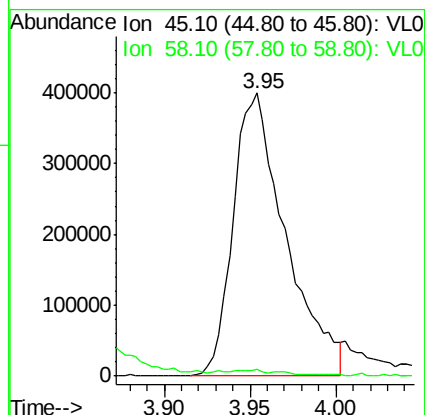
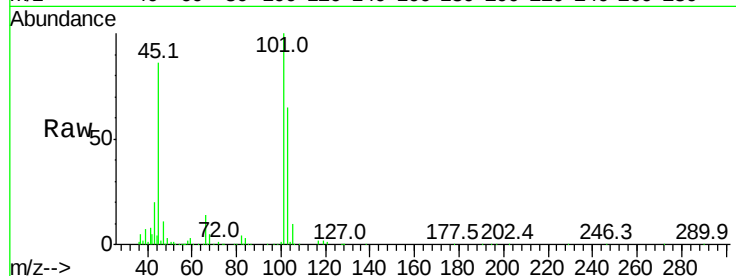
VSTDICCC010

Tgt Ion: 45 Resp: 848604

Ion Ratio Lower Upper

45 100

58 1.9 2.2 3.4#



#20

Methylene Chloride

Concen: 6.837 ppbv

RT: 4.33 min Scan# 480

Delta R.T. -0.01 min

Lab File: VL037455.D

Acq: 16 Aug 2021 10:27

Tgt Ion: 84 Resp: 607918

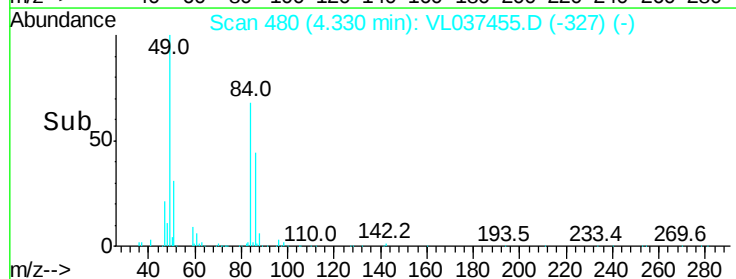
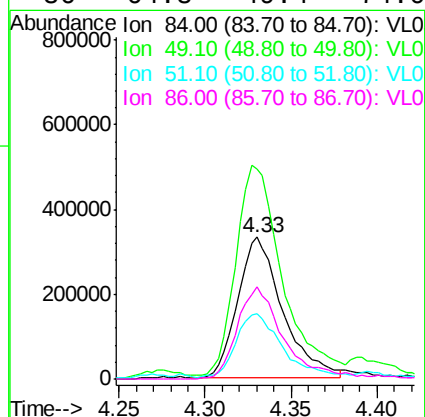
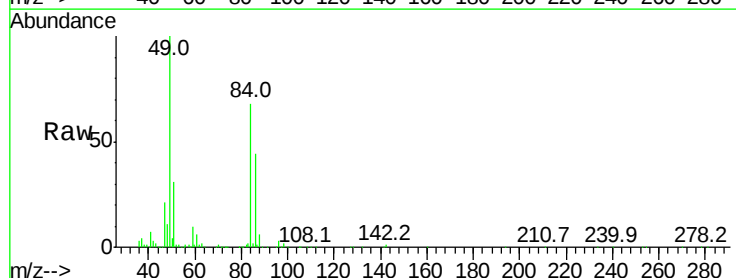
Ion Ratio Lower Upper

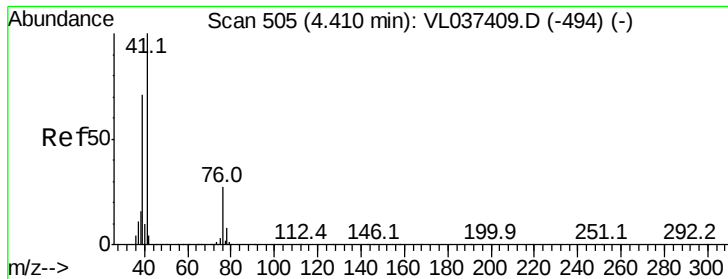
84 100

49 145.7 116.0 174.0

51 43.8 37.1 55.7

86 64.8 49.4 74.0





#21

Allyl Chloride

Concen: 9.090 ppbv

RT: 4.40 min Scan# 501

Delta R.T. -0.01 min

Lab File: VL037455.D

Acq: 16 Aug 2021 10:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

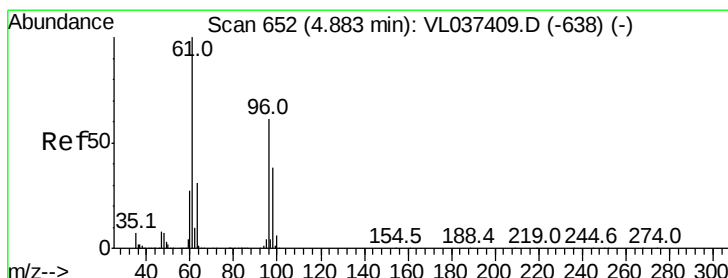
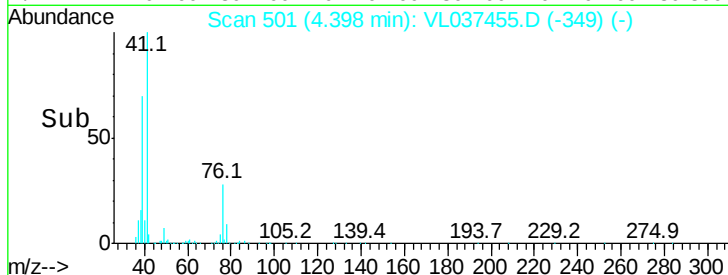
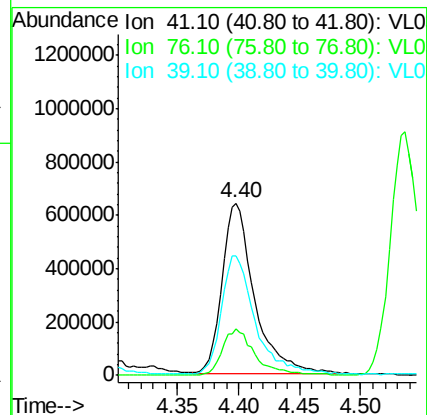
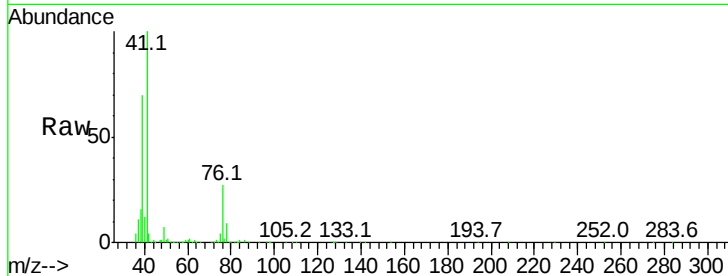
Tgt Ion: 41 Resp: 1197839

Ion Ratio Lower Upper

41 100

76 28.0 23.7 35.5

39 73.2 62.3 93.5



#22

trans-1,2-Dichloroethene

Concen: 8.854 ppbv

RT: 4.87 min Scan# 648

Delta R.T. -0.01 min

Lab File: VL037455.D

Acq: 16 Aug 2021 10:27

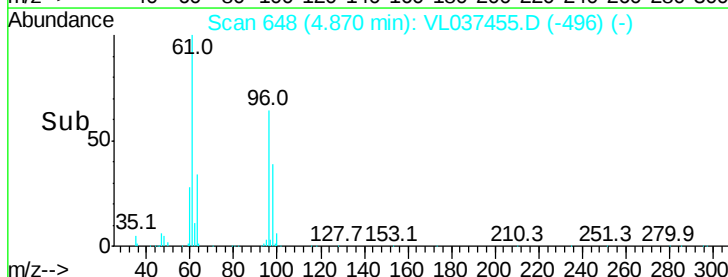
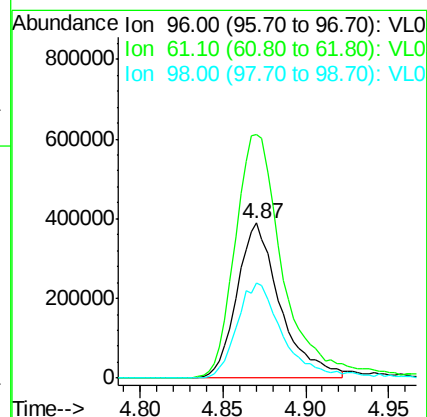
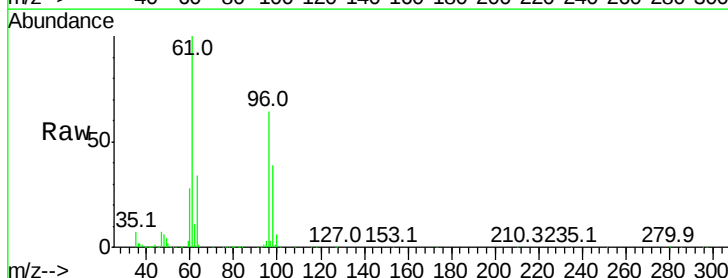
Tgt Ion: 96 Resp: 708048

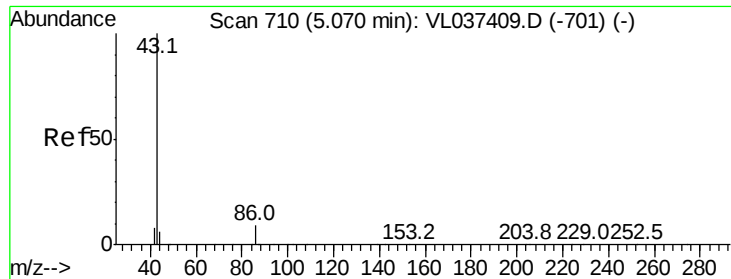
Ion Ratio Lower Upper

96 100

61 156.9 131.0 196.4

98 61.2 50.2 75.4





#23

Vinyl Acetate

Concen: 9.262 ppbv

RT: 5.06 min Scan# 706

Delta R.T. -0.01 min

Lab File: VL037455.D

Acq: 16 Aug 2021 10:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 43 Resp: 2389882

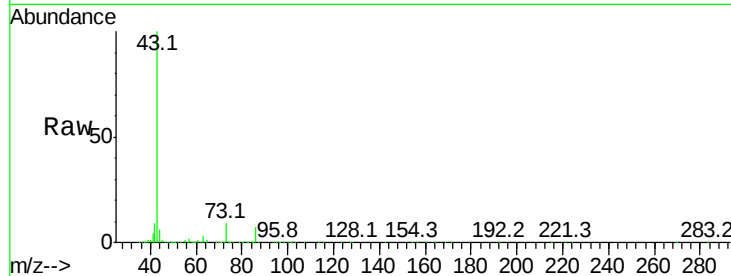
Ion Ratio Lower Upper

43 100

86 7.1 5.8 8.8

42 9.3 7.7 11.5

44 5.4 4.0 6.0

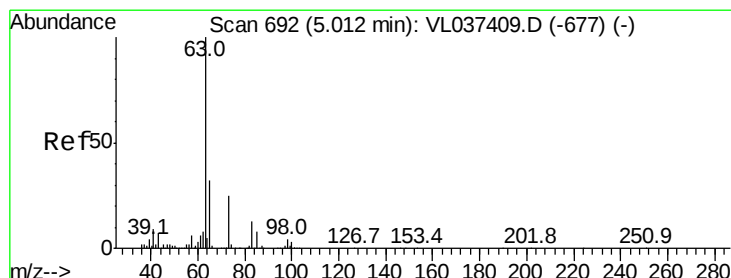
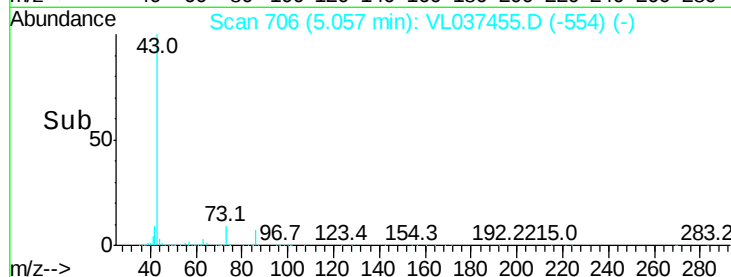
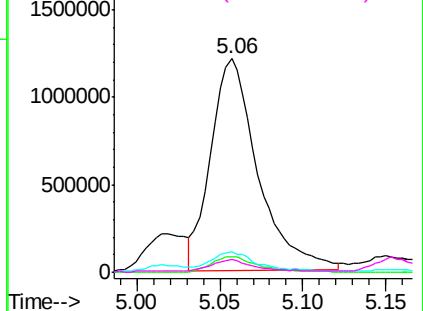


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 7.883 ppbv

RT: 5.00 min Scan# 687

Delta R.T. -0.02 min

Lab File: VL037455.D

Acq: 16 Aug 2021 10:27

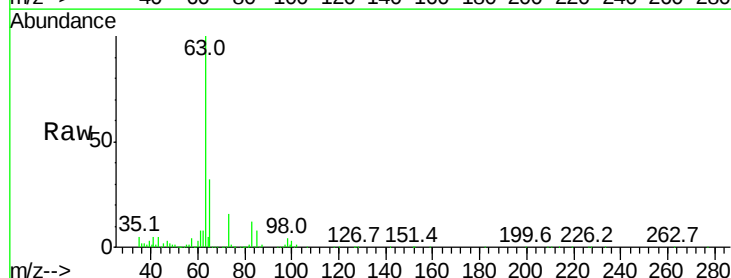
Tgt Ion: 63 Resp: 1579958

Ion Ratio Lower Upper

63 100

98 4.2 2.1 6.3

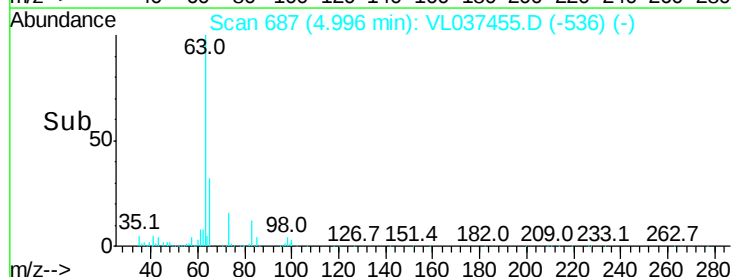
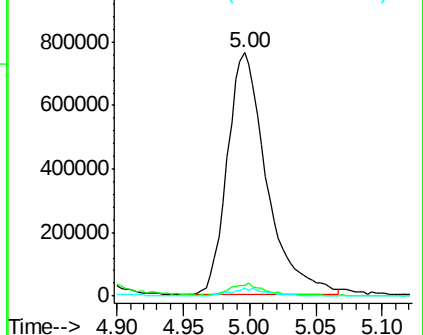
100 3.1 1.6 4.7

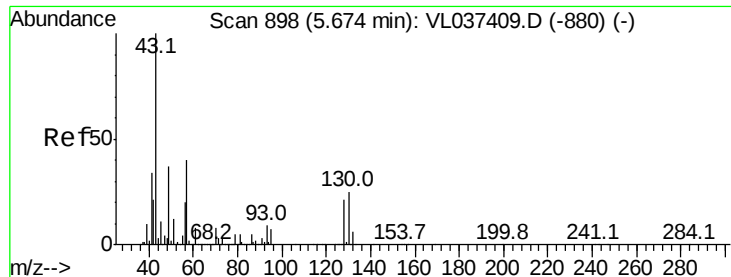


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 9.450 ppbv

RT: 5.66 min Scan# 893

Delta R.T. -0.02 min

Lab File: VL037455.D

Acq: 16 Aug 2021 10:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 43 Resp: 3787402

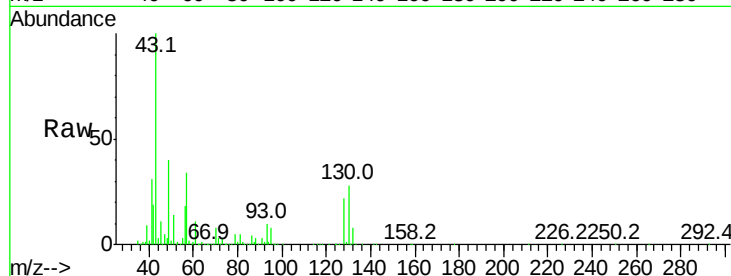
Ion	Ratio	Lower	Upper
43	100		
45	10.0	7.9	11.9
61	10.0	7.7	11.5
70	7.0	5.8	8.6

43 100

45 10.0 7.9 11.9

61 10.0 7.7 11.5

70 7.0 5.8 8.6



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

Time-->

5.66

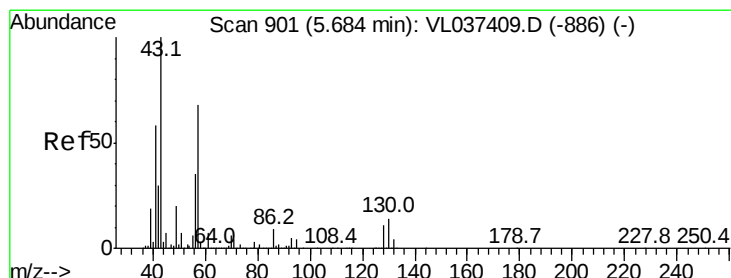
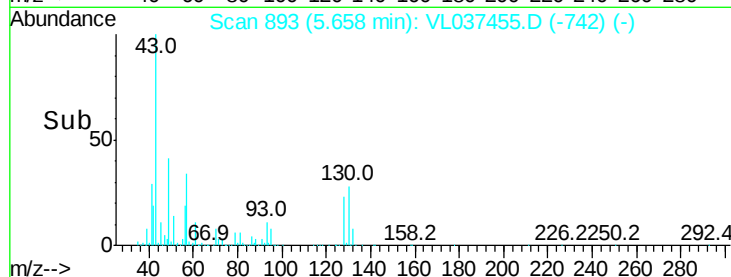
1500000

1000000

500000

0

5.60 5.70 5.80



#26

Hexane

Concen: 8.598 ppbv

RT: 5.67 min Scan# 896

Delta R.T. -0.02 min

Lab File: VL037455.D

Acq: 16 Aug 2021 10:27

Tgt Ion: 57 Resp: 1778353

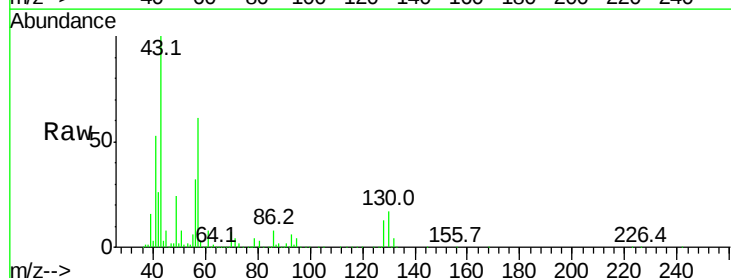
Ion	Ratio	Lower	Upper
57	100		
41	90.4	72.5	108.7
43	215.4	169.3	253.9
56	53.5	42.3	63.5

57 100

41 90.4 72.5 108.7

43 215.4 169.3 253.9

56 53.5 42.3 63.5



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

Time-->

5.67

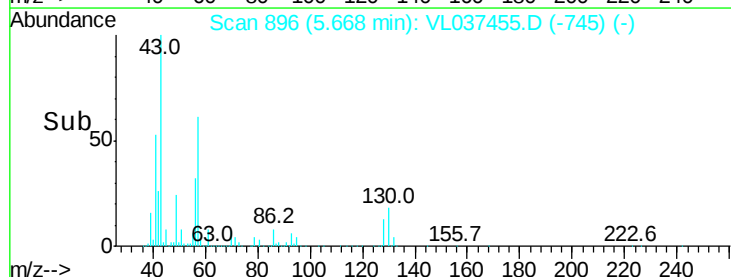
1500000

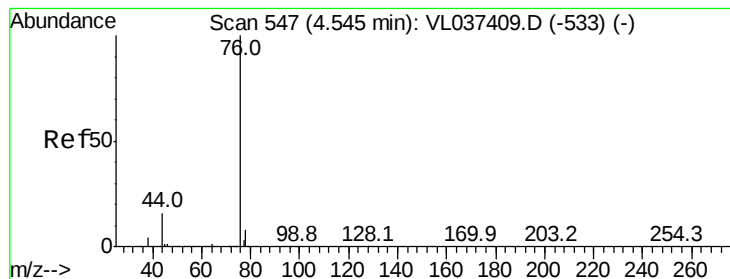
1000000

500000

0

5.60 5.65 5.70 5.75





#27

Carbon Disulfide

Concen: 9.780 ppbv

RT: 4.54 min Scan# 544

Delta R.T. -0.01 min

Lab File: VL037455.D

Acq: 16 Aug 2021 10:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

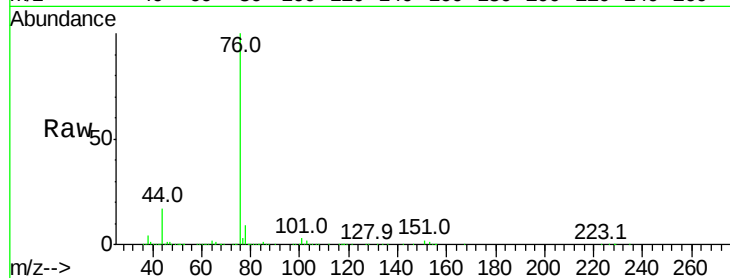
Tgt Ion: 76 Resp: 1705399

Ion Ratio Lower Upper

76 100

44 18.3 14.4 21.6

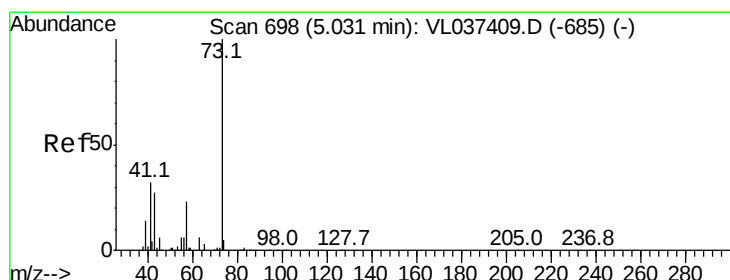
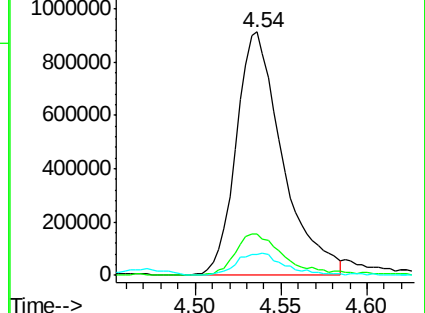
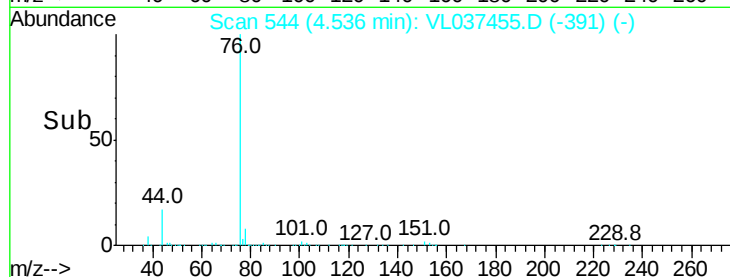
78 10.4 8.0 12.0



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 8.422 ppbv

RT: 5.02 min Scan# 695

Delta R.T. -0.01 min

Lab File: VL037455.D

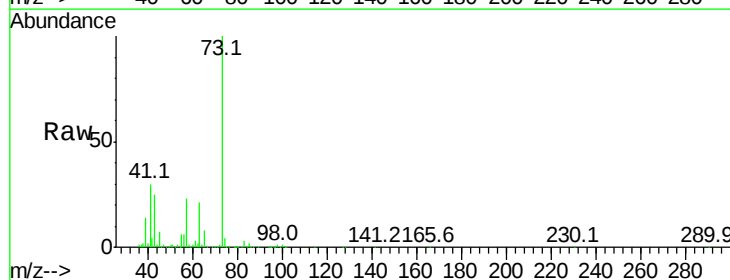
Acq: 16 Aug 2021 10:27

Tgt Ion: 73 Resp: 1864114

Ion Ratio Lower Upper

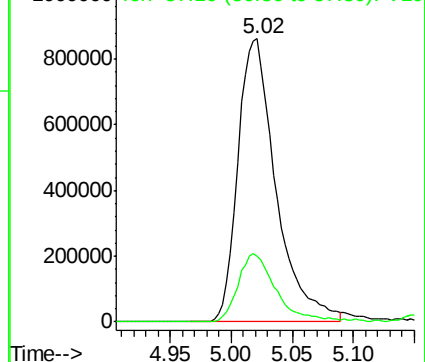
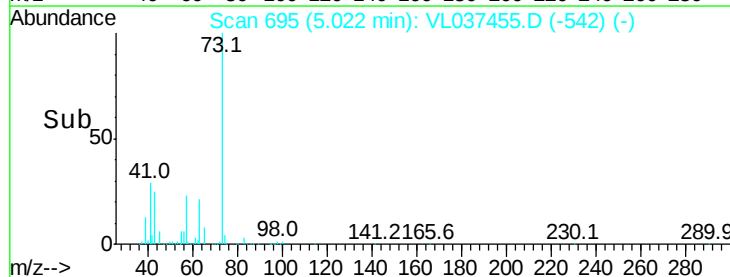
73 100

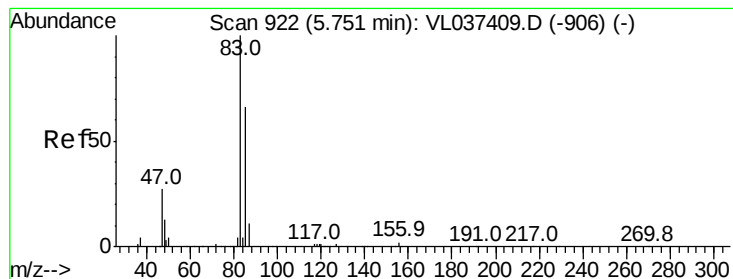
57 24.3 19.0 28.4



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 8.819 ppbv

RT: 5.74 min Scan# 917

Delta R.T. -0.02 min

Lab File: VL037455.D

Acq: 16 Aug 2021 10:27

Instrument :

MSVOA_L

ClientSampleId :

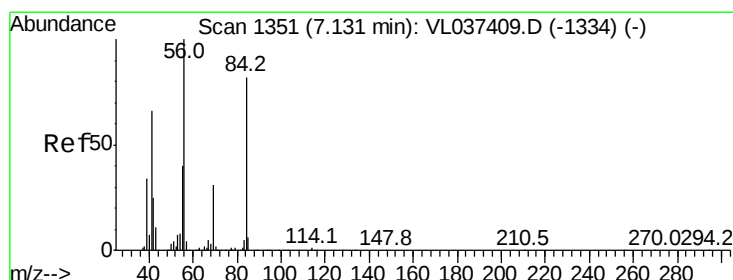
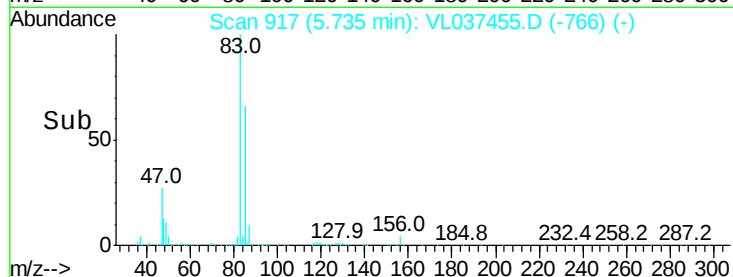
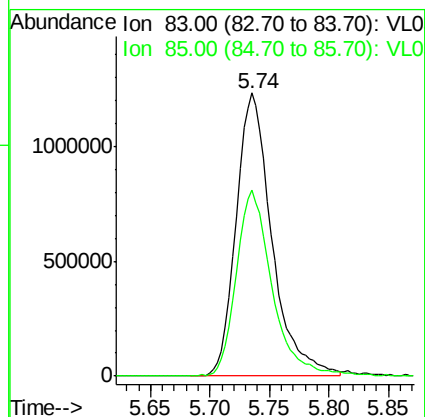
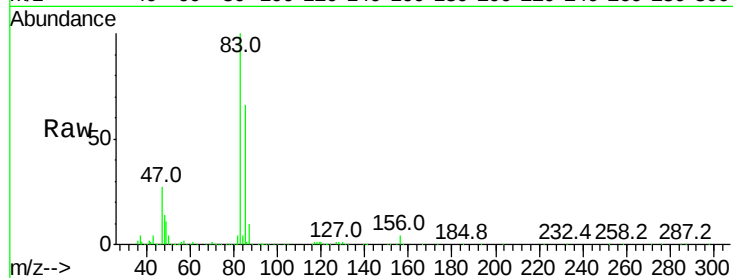
VSTDICCC010

Tgt Ion: 83 Resp: 2567952

Ion Ratio Lower Upper

83 100

85 65.4 52.4 78.6



#30

Cyclohexane

Concen: 9.056 ppbv

RT: 7.11 min Scan# 1345

Delta R.T. -0.02 min

Lab File: VL037455.D

Acq: 16 Aug 2021 10:27

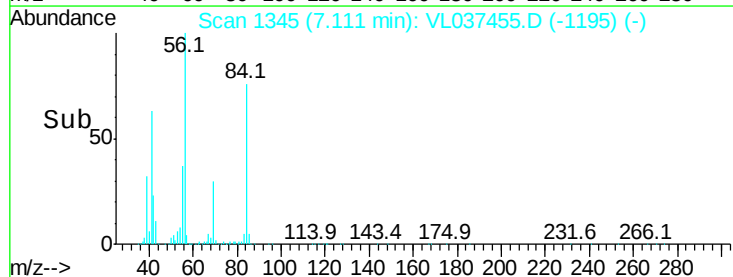
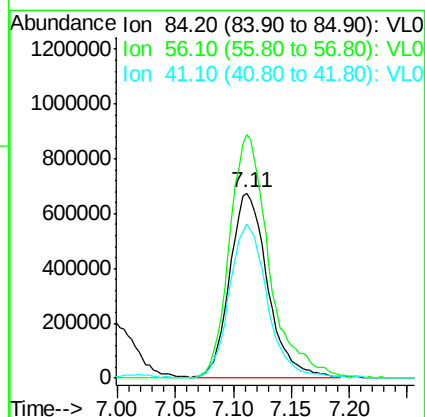
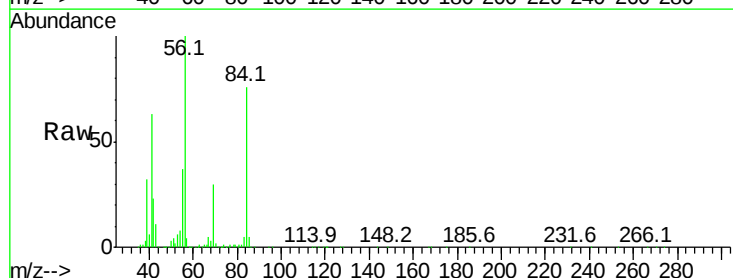
Tgt Ion: 84 Resp: 1542518

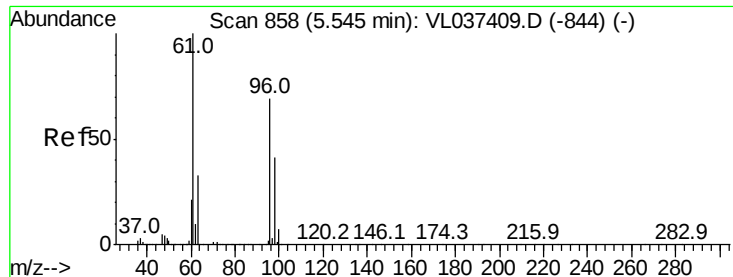
Ion Ratio Lower Upper

84 100

56 138.2 109.6 164.4

41 83.8 66.6 99.8



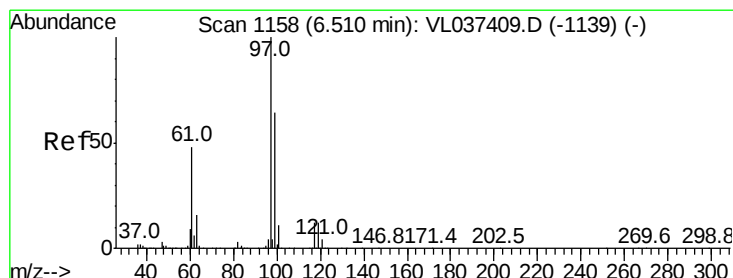
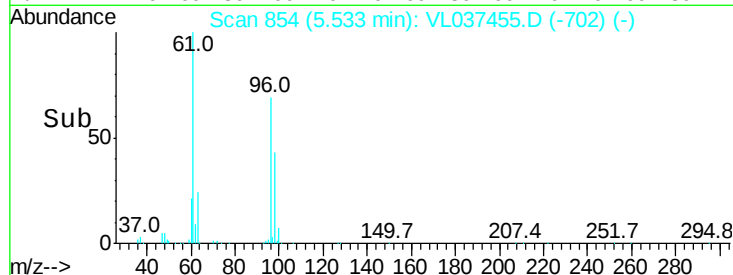
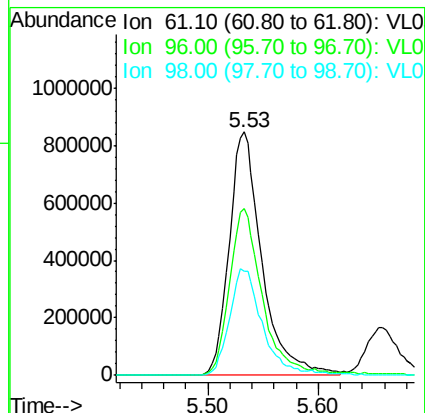
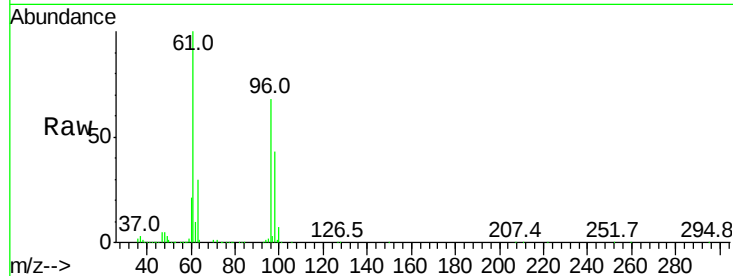


#31

cis-1,2-Dichloroethene
Concen: 9.741 ppbv
RT: 5.53 min Scan# 854
Delta R.T. -0.01 min
Lab File: VL037455.D
Acq: 16 Aug 2021 10:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

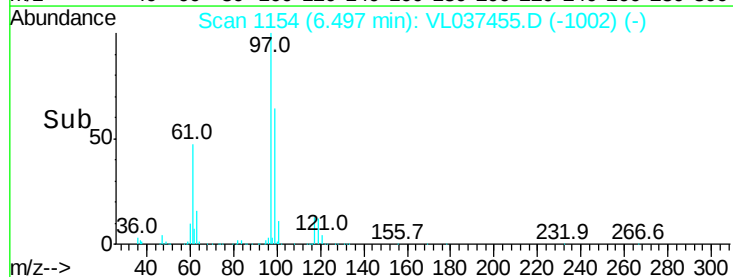
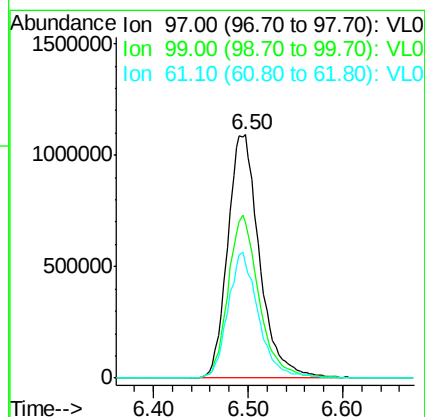
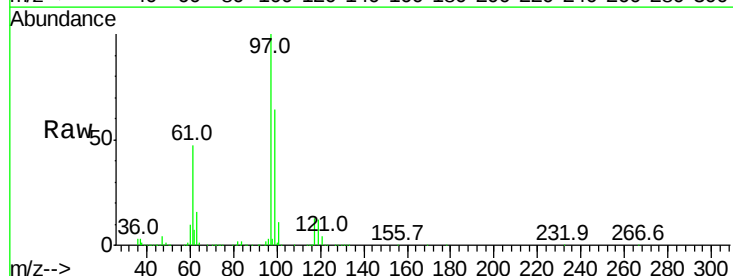
Tgt Ion: 61 Resp: 1741364
Ion Ratio Lower Upper
61 100
96 68.5 55.5 83.3
98 42.7 33.1 49.7

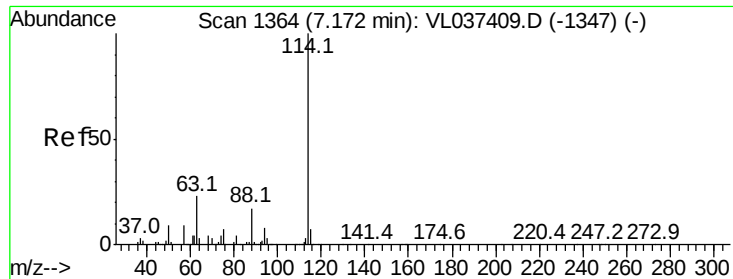


#32

1,1,1-Trichloroethane
Concen: 8.715 ppbv
RT: 6.50 min Scan# 1154
Delta R.T. -0.01 min
Lab File: VL037455.D
Acq: 16 Aug 2021 10:27

Tgt Ion: 97 Resp: 2561058
Ion Ratio Lower Upper
97 100
99 64.7 52.3 78.5
61 49.5 40.1 60.1





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 min Scan# 1359

Delta R.T. -0.02 min

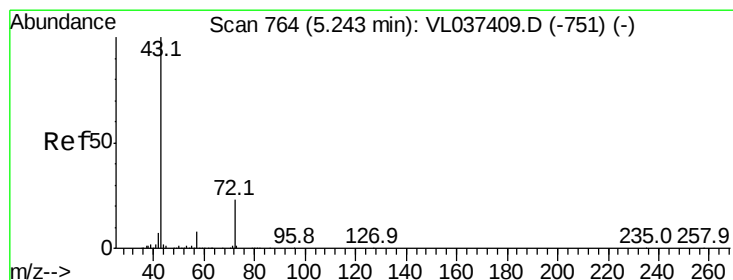
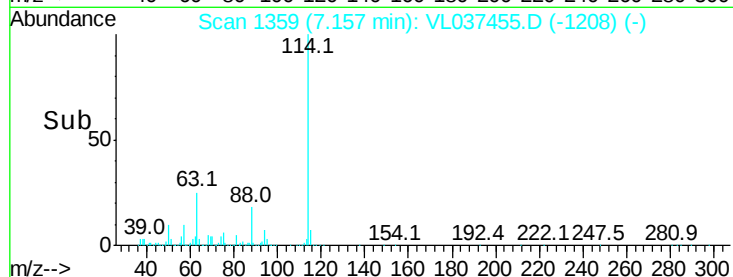
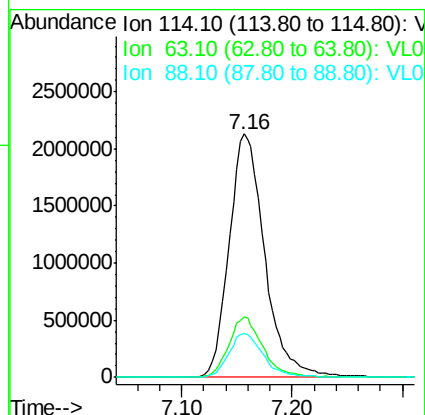
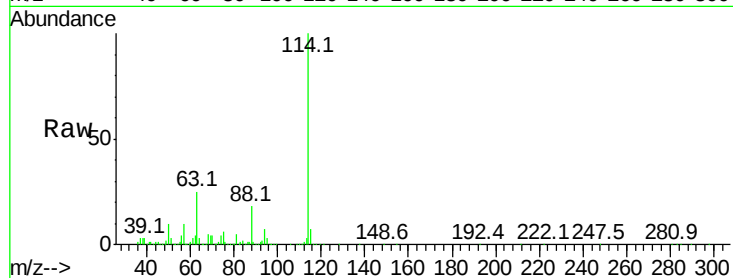
Lab File: VL037455.D

Acq: 16 Aug 2021 10:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:114 Resp: 4742489

Ion	Ratio	Lower	Upper
114	100		
63	24.1	19.4	29.2
88	17.8	14.2	21.4



#34

2-Butanone

Concen: 8.462 ppbv

RT: 5.23 min Scan# 759

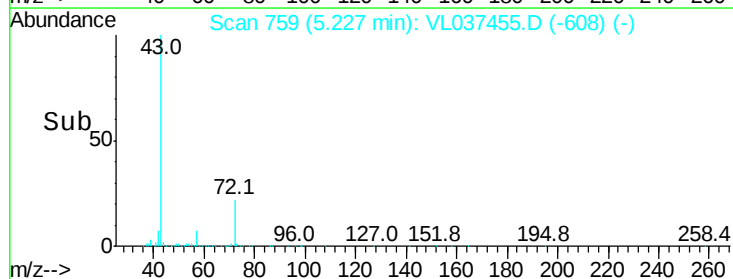
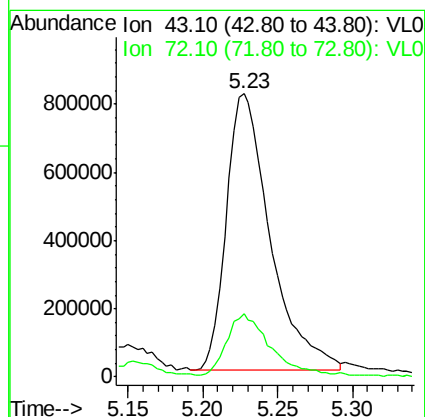
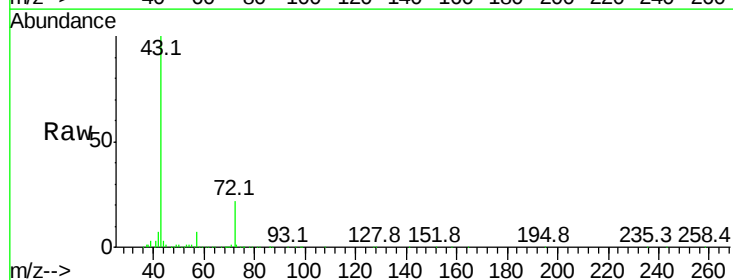
Delta R.T. -0.02 min

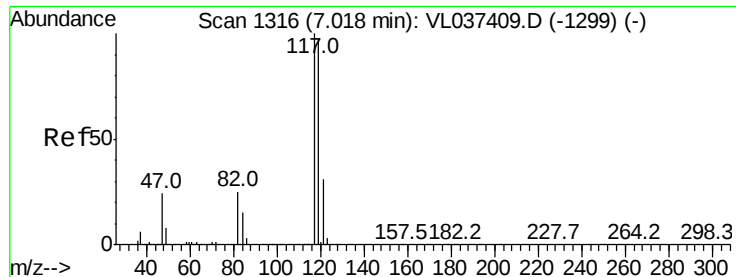
Lab File: VL037455.D

Acq: 16 Aug 2021 10:27

Tgt Ion: 43 Resp: 1656824

Ion	Ratio	Lower	Upper
43	100		
72	23.6	17.7	26.5





#35

Carbon Tetrachloride

Concen: 9.038 ppbv

RT: 7.00 min Scan# 1310

Delta R.T. -0.02 min

Lab File: VL037455.D

Acq: 16 Aug 2021 10:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

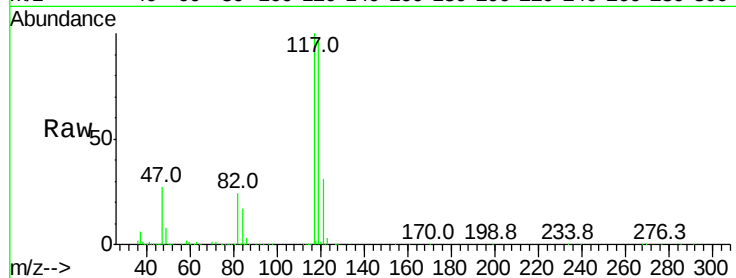
Tgt Ion:117 Resp: 2643134

Ion Ratio Lower Upper

117 100

119 96.6 77.5 116.3

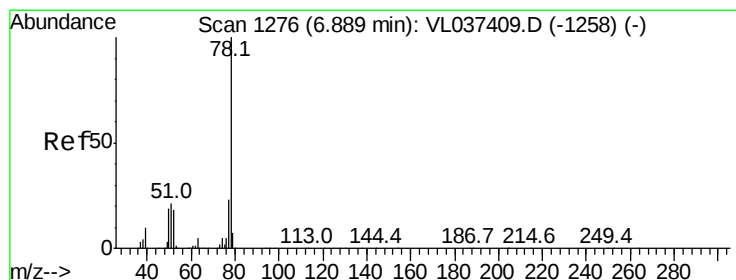
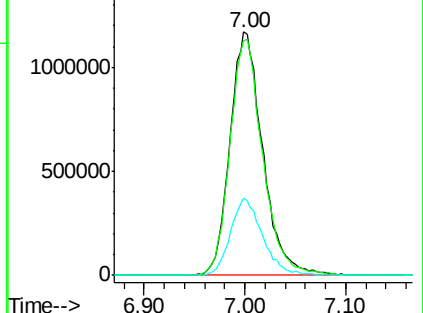
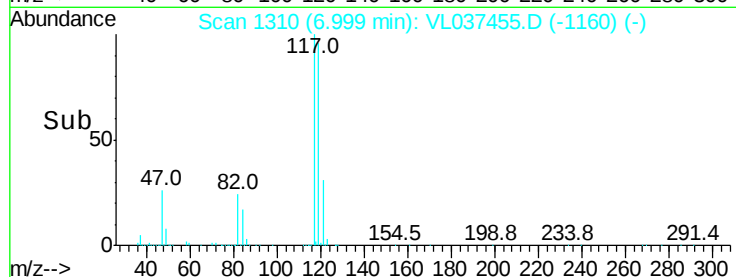
121 31.5 24.7 37.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 9.314 ppbv

RT: 6.87 min Scan# 1271

Delta R.T. -0.02 min

Lab File: VL037455.D

Acq: 16 Aug 2021 10:27

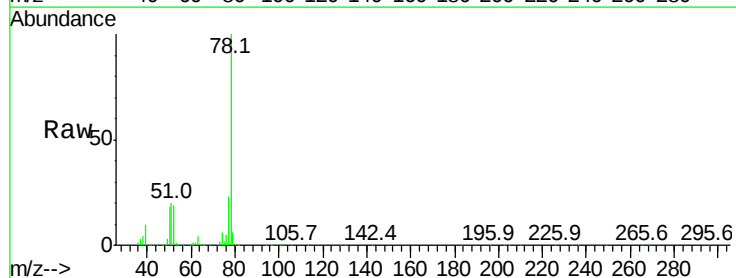
Tgt Ion: 78 Resp: 3724779

Ion Ratio Lower Upper

78 100

77 22.8 18.6 27.8

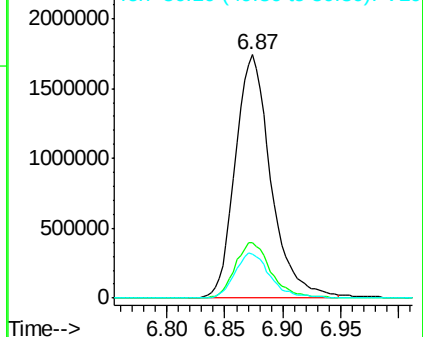
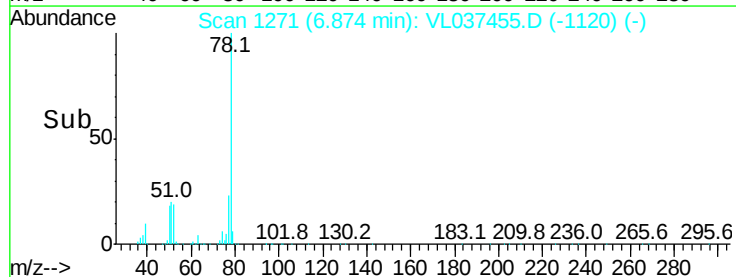
50 18.2 14.9 22.3

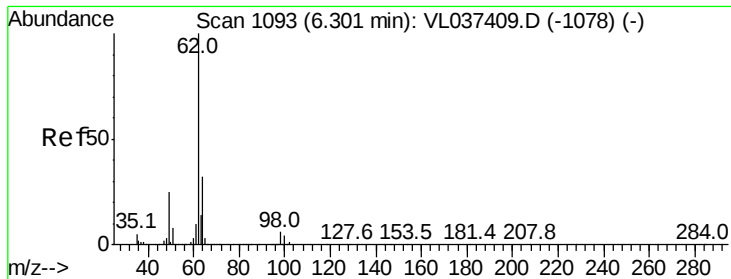


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

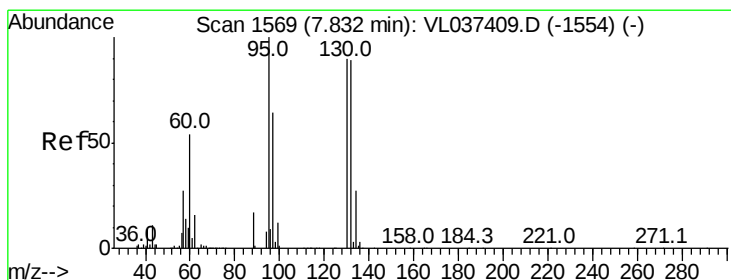
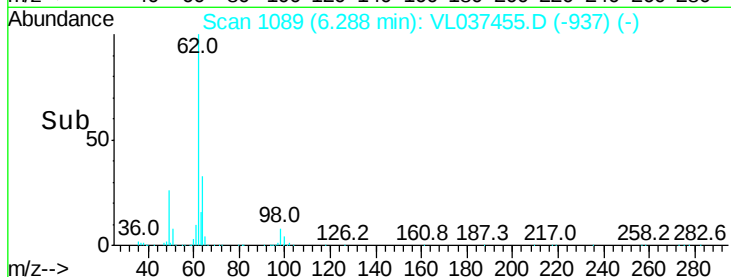
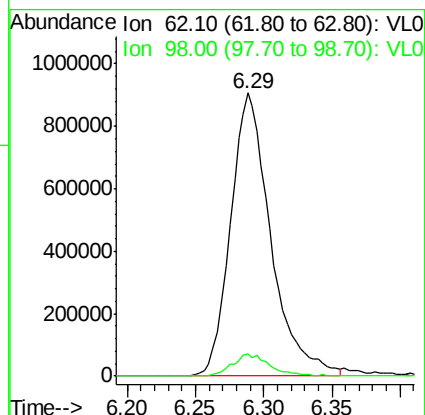
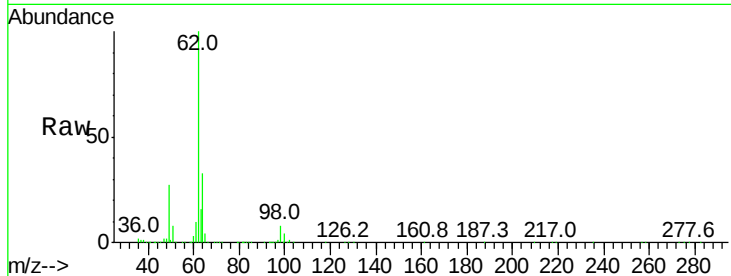




#37
 1,2-Dichloroethane
 Concen: 9.050 ppbv
 RT: 6.29 min Scan# 1089
 Delta R.T. -0.01 min
 Lab File: VL037455.D
 Acq: 16 Aug 2021 10:27

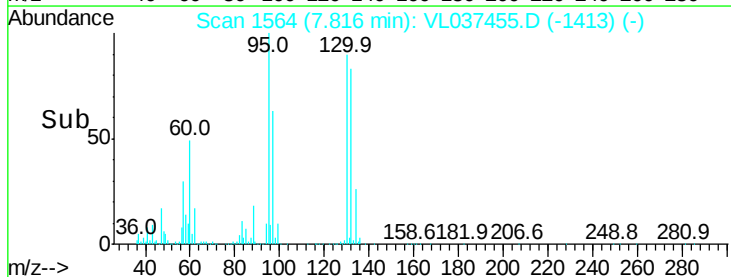
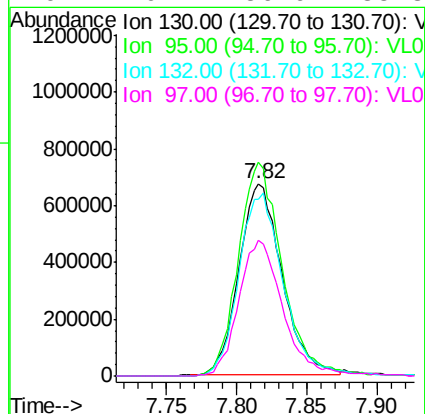
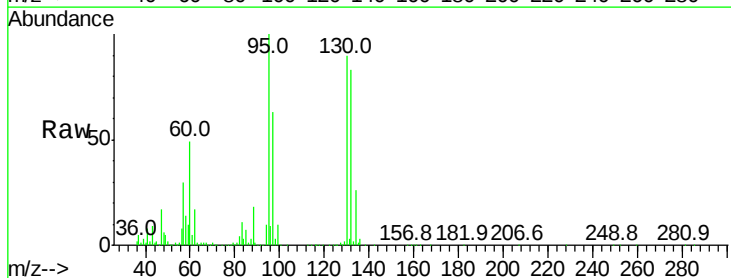
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

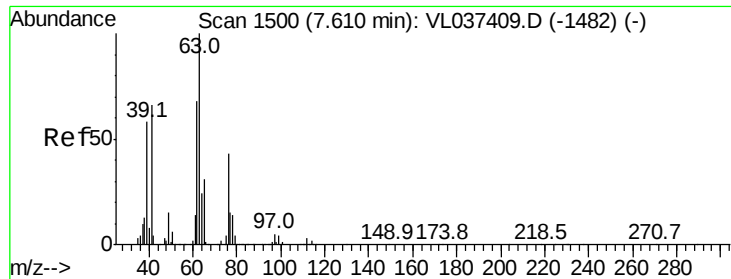
Tgt Ion: 62 Resp: 1846840
 Ion Ratio Lower Upper
 62 100
 98 7.5 5.4 8.2



#38
 Trichloroethene
 Concen: 8.149 ppbv
 RT: 7.82 min Scan# 1564
 Delta R.T. -0.02 min
 Lab File: VL037455.D
 Acq: 16 Aug 2021 10:27

Tgt Ion: 130 Resp: 1438400
 Ion Ratio Lower Upper
 130 100
 95 111.5 88.6 132.8
 132 92.5 79.2 118.8
 97 70.7 56.9 85.3





#39

1,2-Dichloropropane

Concen: 9.392 ppbv

RT: 7.59 min Scan# 1495

Delta R.T. -0.02 min

Lab File: VL037455.D

Acq: 16 Aug 2021 10:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

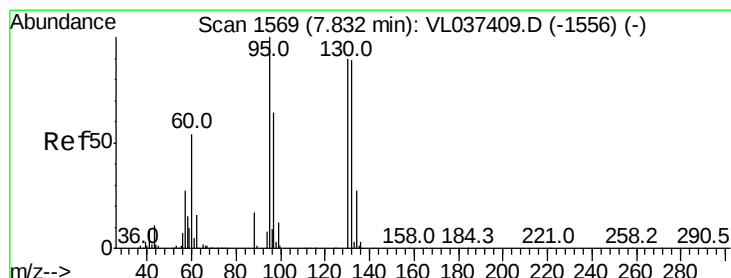
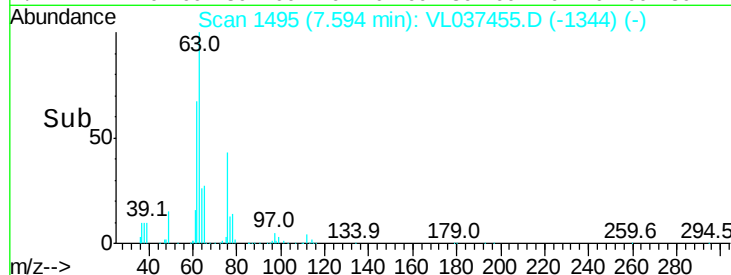
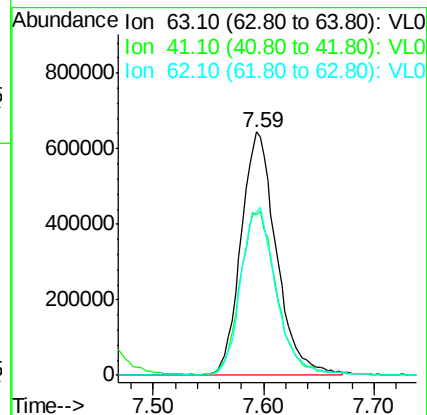
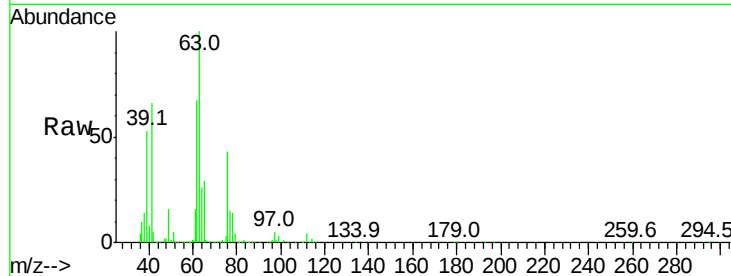
Tgt Ion: 63 Resp: 1430696

Ion Ratio Lower Upper

63 100

41 65.5 53.0 79.6

62 67.0 54.5 81.7



#40

1,4-Dioxane

Concen: 8.037 ppbv

RT: 7.82 min Scan# 1565

Delta R.T. -0.01 min

Lab File: VL037455.D

Acq: 16 Aug 2021 10:27

Tgt Ion: 88 Resp: 297931

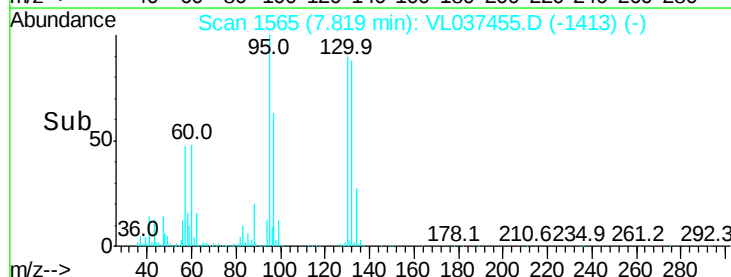
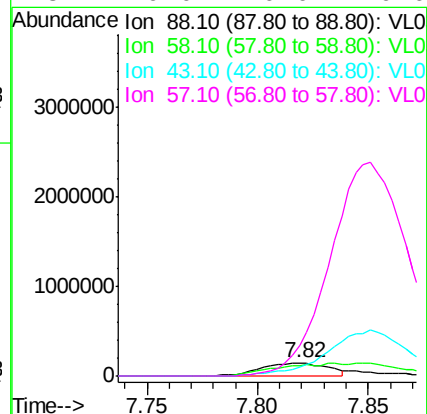
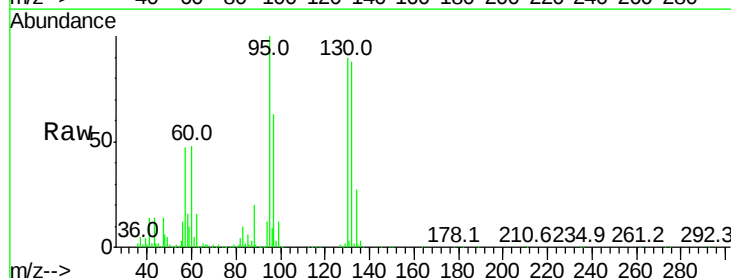
Ion Ratio Lower Upper

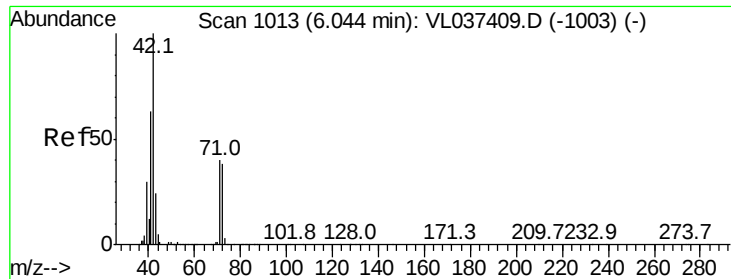
88 100

58 0.0 0.0 0.0

43 0.0 0.0 0.0

57 0.0 0.0 0.0





#41

Tetrahydrofuran

Concen: 9.621 ppbv

RT: 6.03 min Scan# 1010

Delta R.T. -0.01 min

Lab File: VL037455.D

Acq: 16 Aug 2021 10:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

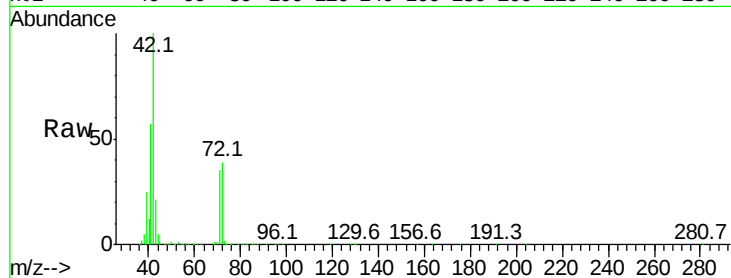
Tgt Ion: 42 Resp: 865069

Ion Ratio Lower Upper

42 100

72 42.2 33.5 50.3

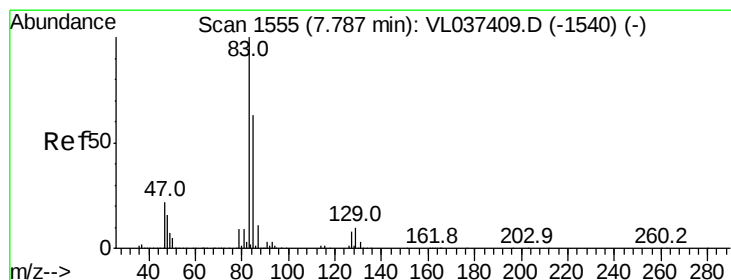
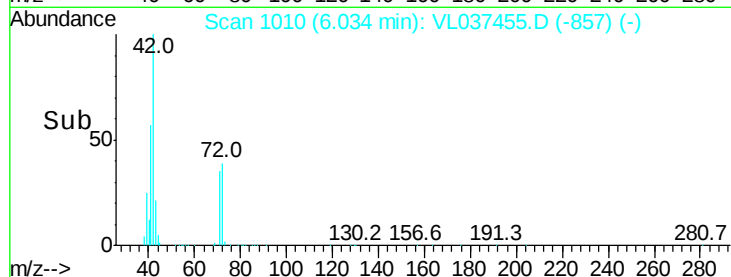
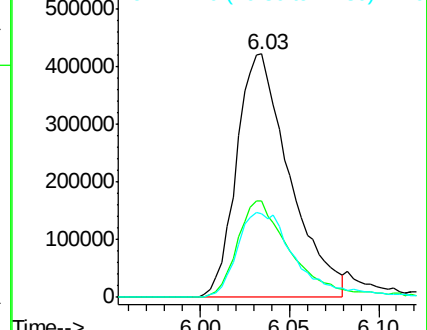
71 39.9 32.6 48.8



Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 9.829 ppbv

RT: 7.77 min Scan# 1550

Delta R.T. -0.02 min

Lab File: VL037455.D

Acq: 16 Aug 2021 10:27

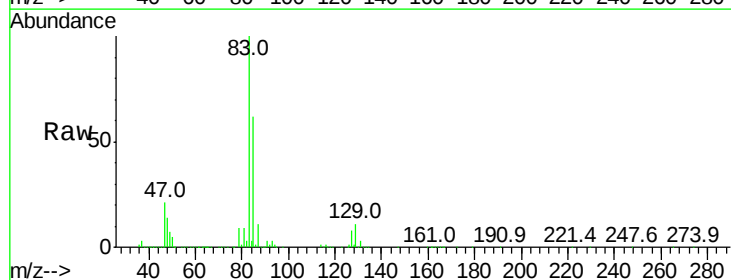
Tgt Ion: 83 Resp: 2808787

Ion Ratio Lower Upper

83 100

85 61.9 50.2 75.2

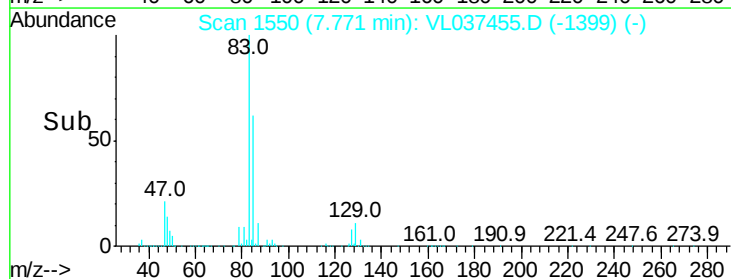
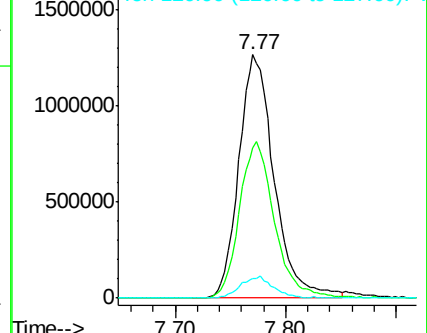
127 7.9 6.6 9.8

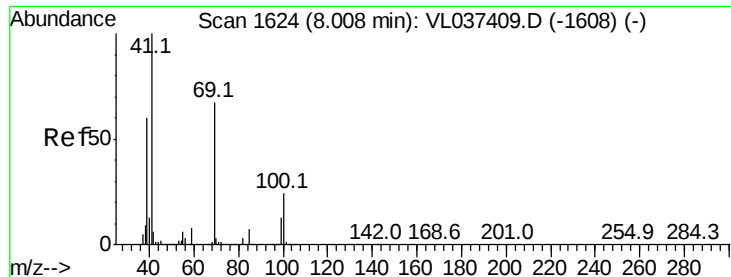


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V

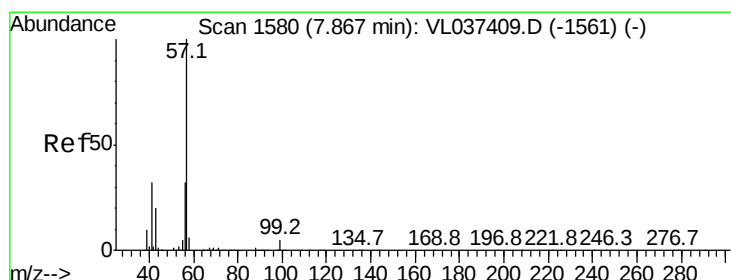
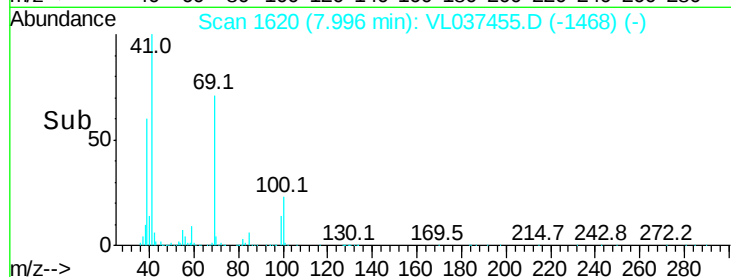
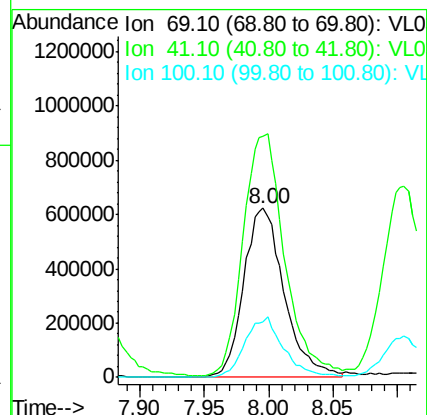
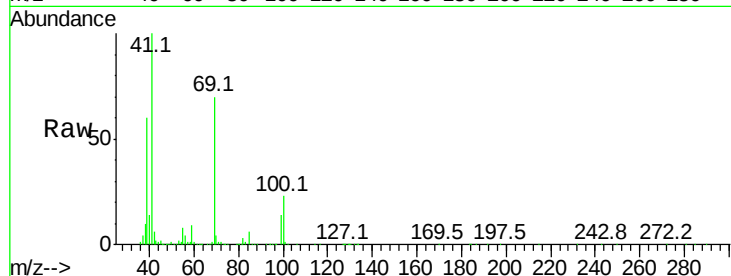




#43
Methyl Methacrylate
Concen: 10.059 ppbv
RT: 8.00 min Scan# 1620
Delta R.T. -0.01 min
Lab File: VL037455.D
Acq: 16 Aug 2021 10:27

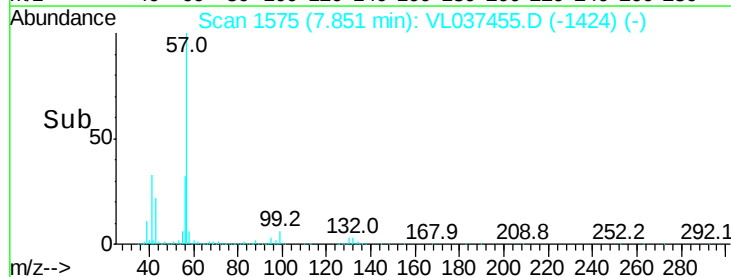
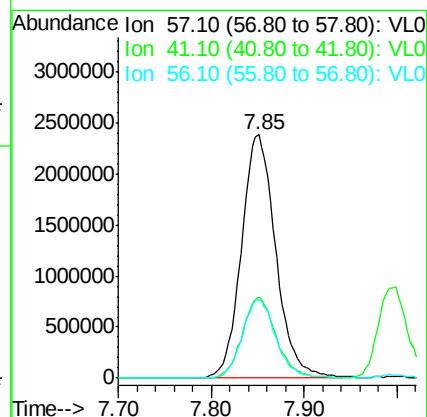
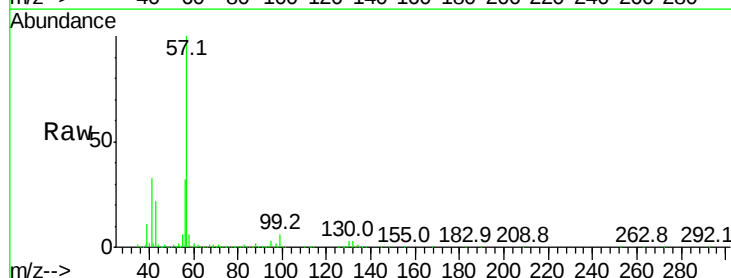
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

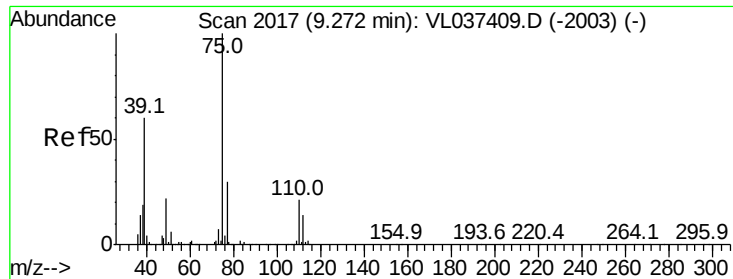
Tgt Ion: 69 Resp: 1363364
Ion Ratio Lower Upper
69 100
41 148.3 118.1 177.1
100 34.2 27.6 41.4



#44
2,2,4-Trimethylpentane
Concen: 9.162 ppbv
RT: 7.85 min Scan# 1575
Delta R.T. -0.02 min
Lab File: VL037455.D
Acq: 16 Aug 2021 10:27

Tgt Ion: 57 Resp: 6125466
Ion Ratio Lower Upper
57 100
41 32.8 26.4 39.6
56 31.8 25.0 37.4





#45

t-1,3-Dichloropropene

Concen: 11.800 ppbv

RT: 9.26 min Scan# 2012

Delta R.T. -0.02 min

Lab File: VL037455.D

Acq: 16 Aug 2021 10:27

Instrument :

MSVOA_L

ClientSampleId :

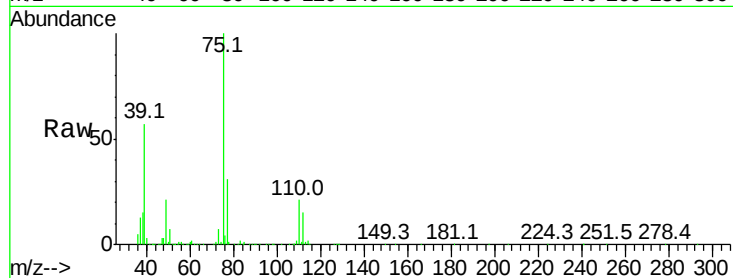
VSTDICCC010

Tgt Ion: 75 Resp: 1188475

Ion Ratio Lower Upper

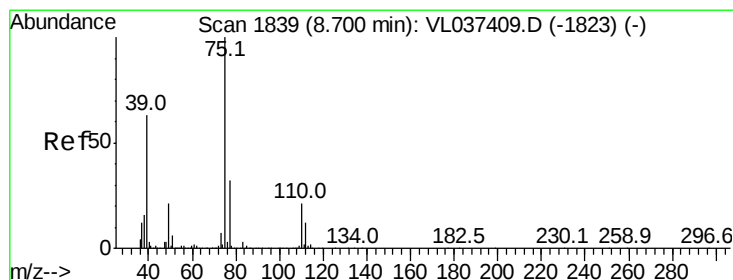
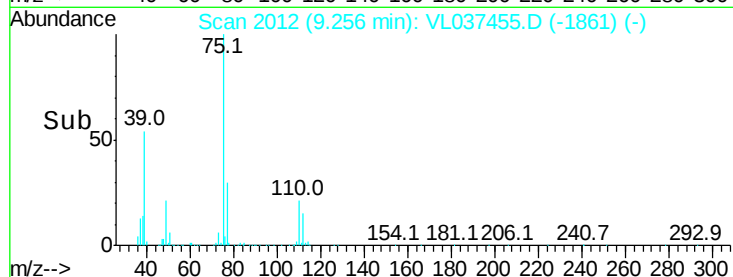
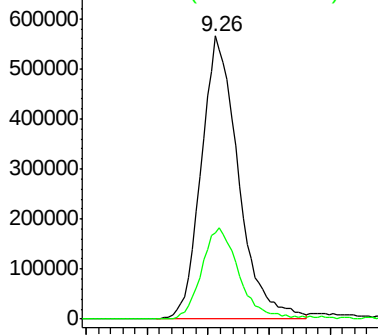
75 100

77 30.6 24.2 36.2



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#46

cis-1,3-Dichloropropene

Concen: 10.870 ppbv

RT: 8.68 min Scan# 1834

Delta R.T. -0.02 min

Lab File: VL037455.D

Acq: 16 Aug 2021 10:27

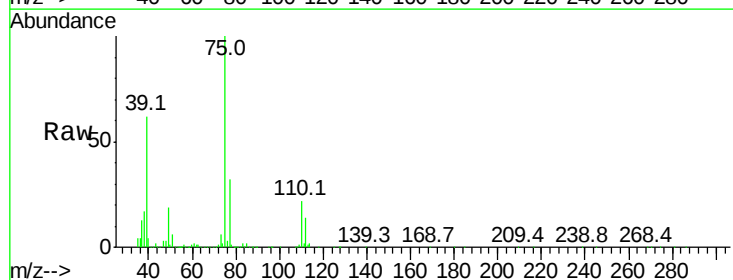
Tgt Ion: 75 Resp: 1528328

Ion Ratio Lower Upper

75 100

39 62.1 50.1 75.1

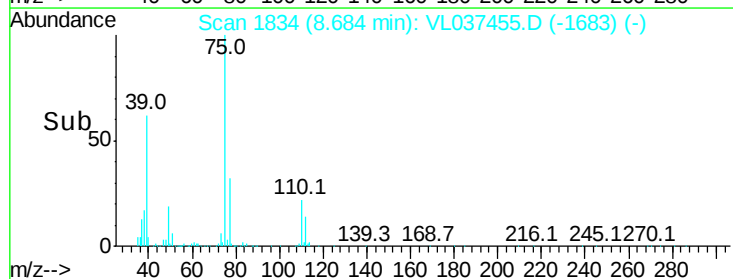
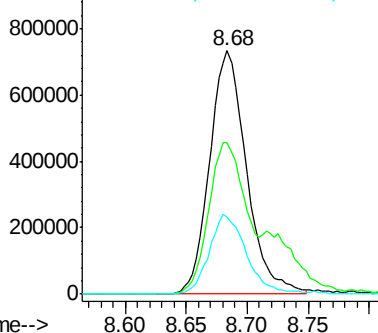
77 31.7 25.8 38.8

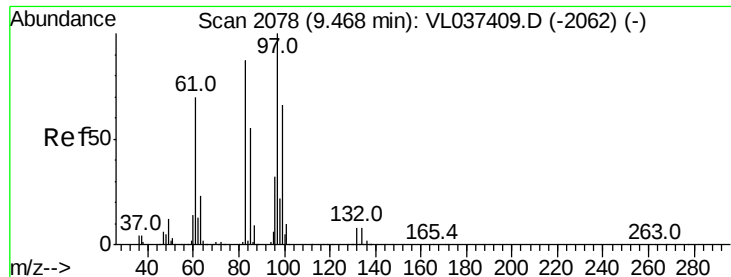


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0





#47

1,1,2-Trichloroethane

Concen: 9.180 ppbv

RT: 9.46 min Scan# 2074

Delta R.T. -0.01 min

Lab File: VL037455.D

Acq: 16 Aug 2021 10:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 97 Resp: 1511782

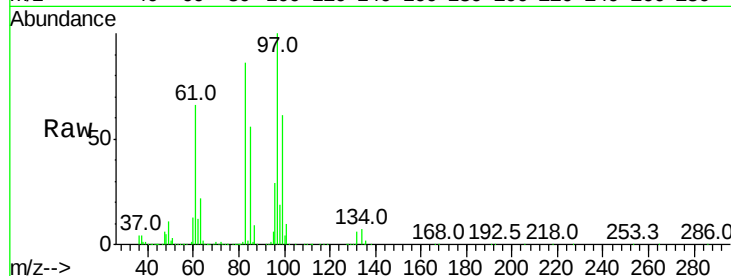
Ion Ratio Lower Upper

97 100

83 85.9 69.5 104.3

85 55.9 43.8 65.8

99 60.7 53.0 79.4

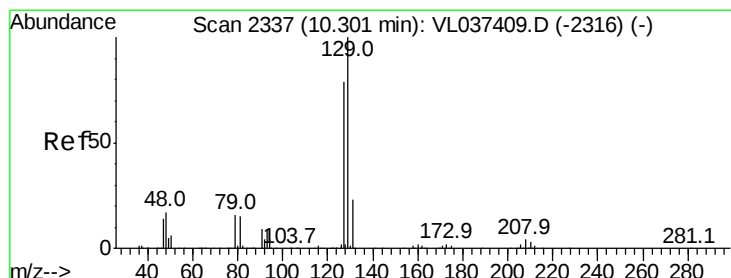
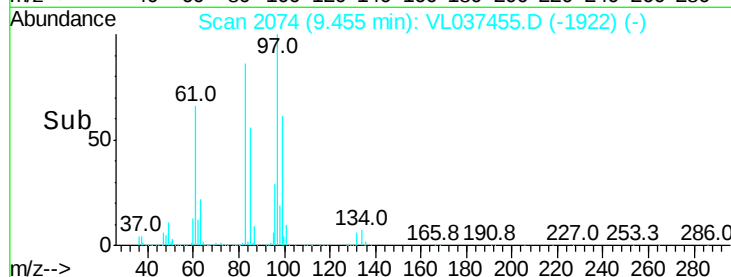
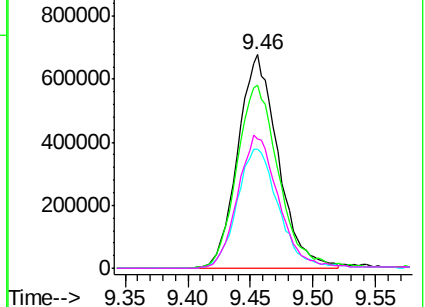


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 10.276 ppbv

RT: 10.28 min Scan# 2332

Delta R.T. -0.02 min

Lab File: VL037455.D

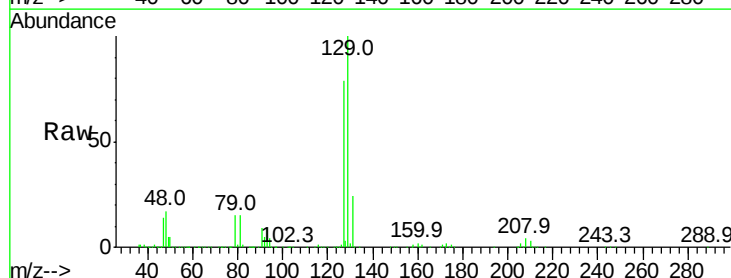
Acq: 16 Aug 2021 10:27

Tgt Ion: 129 Resp: 2441622

Ion Ratio Lower Upper

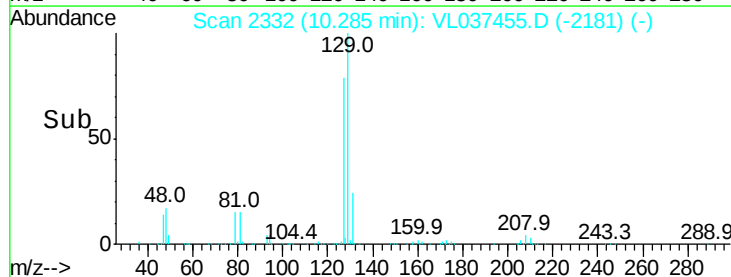
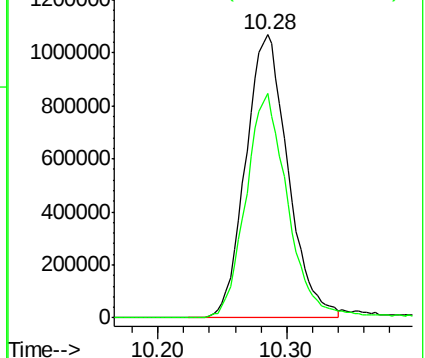
129 100

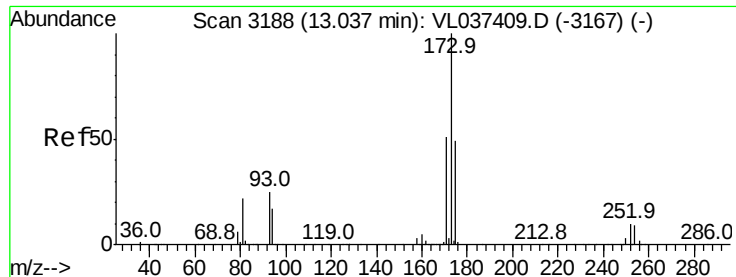
127 80.0 39.6 118.8



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 10.993 ppbv

RT: 13.02 min Scan# 3183

Delta R.T. -0.02 min

Lab File: VL037455.D

Acq: 16 Aug 2021 10:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

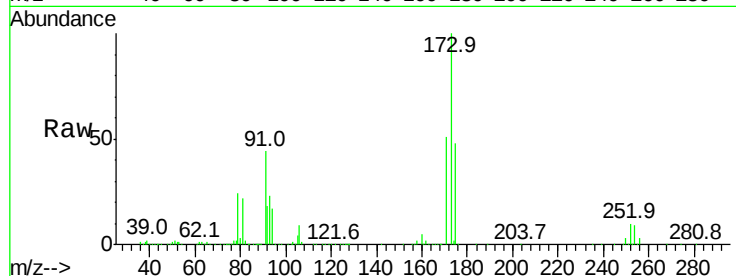
Tgt Ion:173 Resp: 1979127

Ion Ratio Lower Upper

173 100

175 52.4 39.9 59.9

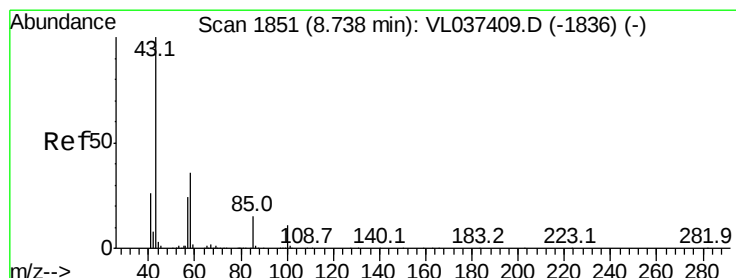
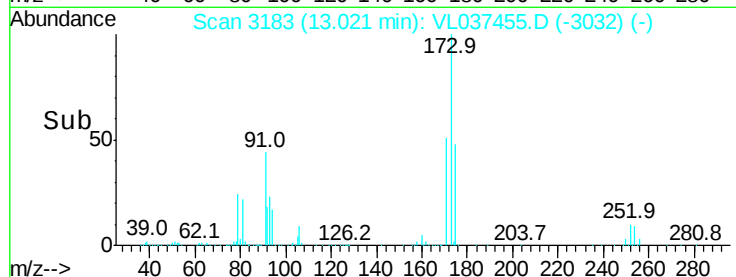
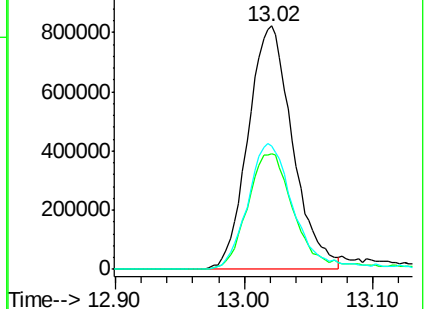
171 55.3 41.4 62.2



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 9.876 ppbv

RT: 8.72 min Scan# 1846

Delta R.T. -0.02 min

Lab File: VL037455.D

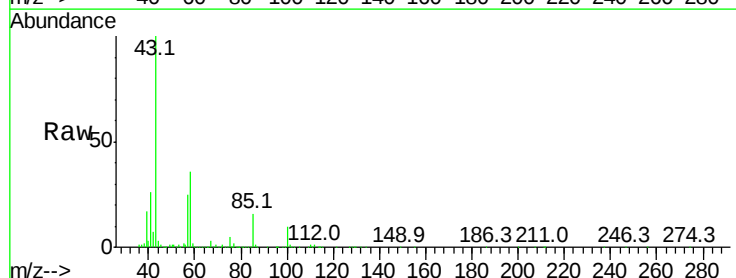
Acq: 16 Aug 2021 10:27

Tgt Ion: 43 Resp: 2432555

Ion Ratio Lower Upper

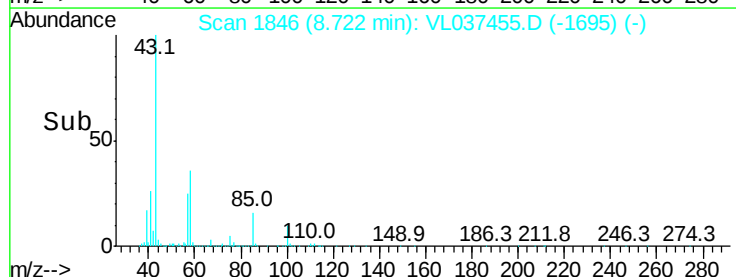
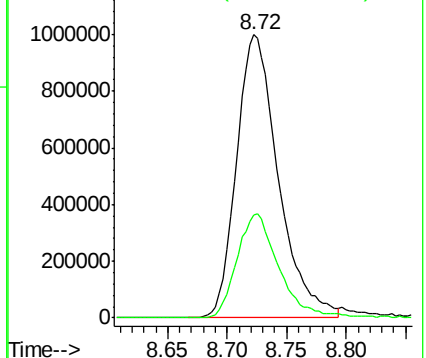
43 100

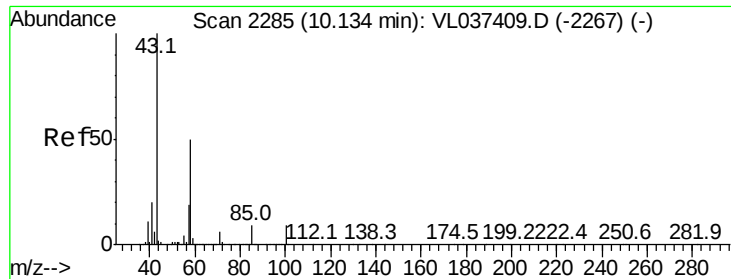
58 37.4 29.9 44.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

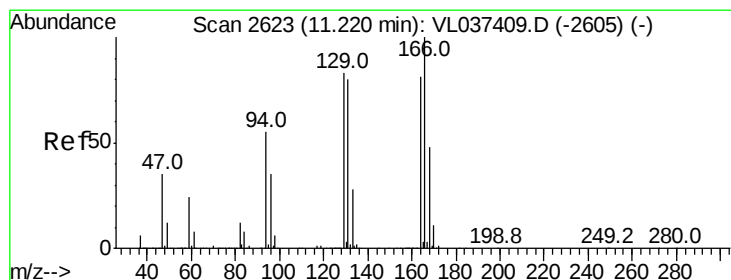
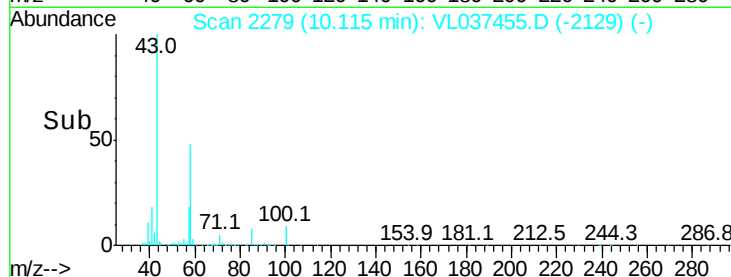
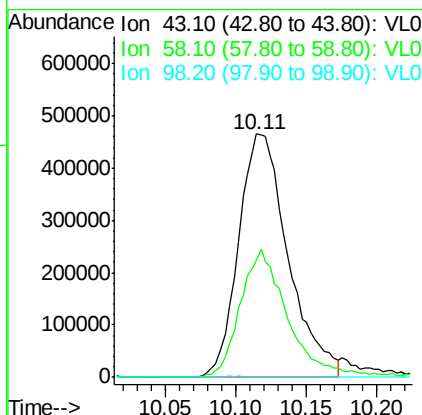
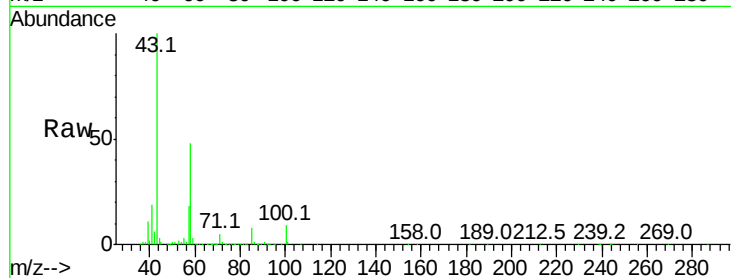




#51
2-Hexanone
Concen: 9.844 ppbv
RT: 10.11 min Scan# 2279
Delta R.T. -0.02 min
Lab File: VL037455.D
Acq: 16 Aug 2021 10:27

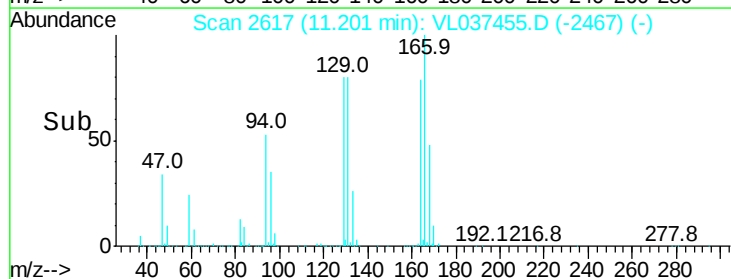
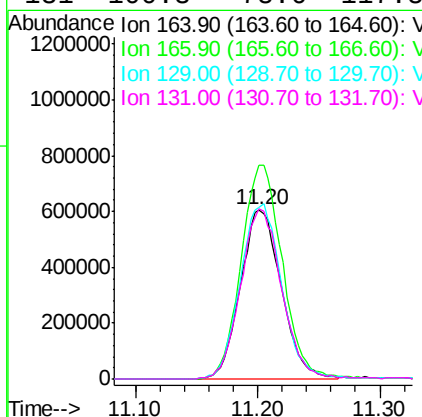
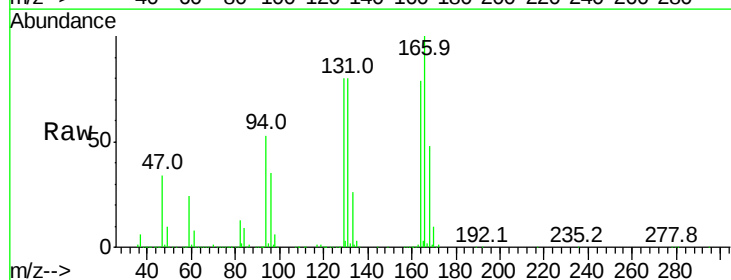
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

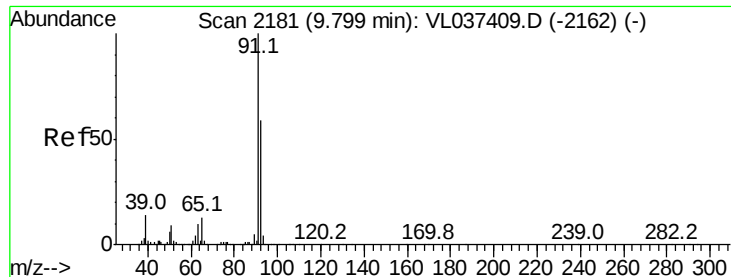
Tgt Ion: 43 Resp: 1140764
Ion Ratio Lower Upper
43 100
58 51.3 39.9 59.9
98 0.4 0.2 0.2#



#52
Tetrachloroethene
Concen: 8.329 ppbv
RT: 11.20 min Scan# 2617
Delta R.T. -0.02 min
Lab File: VL037455.D
Acq: 16 Aug 2021 10:27

Tgt Ion: 164 Resp: 1403146
Ion Ratio Lower Upper
164 100
166 125.9 98.6 147.8
129 101.1 82.0 123.0
131 100.3 78.6 117.8





#53

Toluene

Concen: 9.574 ppbv

RT: 9.78 min Scan# 2176

Delta R.T. -0.02 min

Lab File: VL037455.D

Acq: 16 Aug 2021 10:27

Instrument :

MSVOA_L

ClientSampleId :

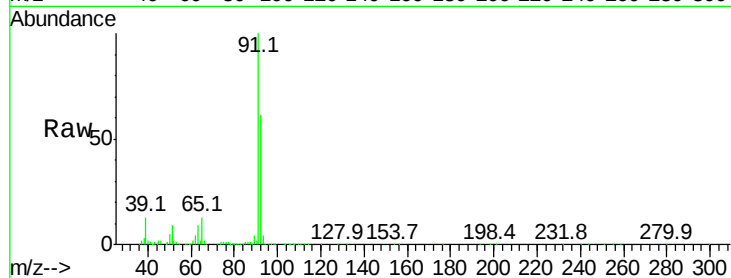
VSTDICCC010

Tgt Ion: 91 Resp: 4371063

Ion Ratio Lower Upper

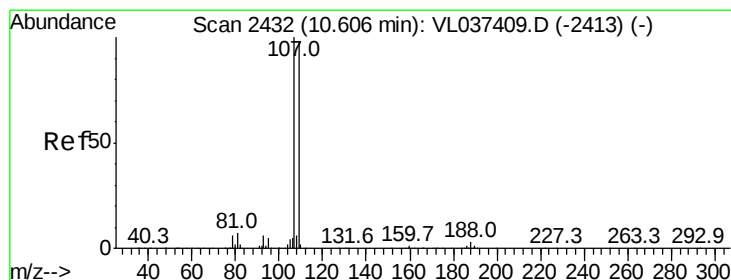
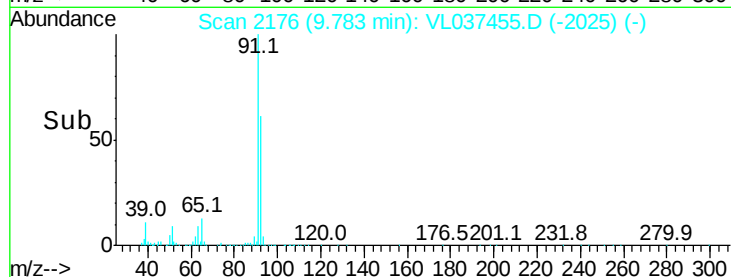
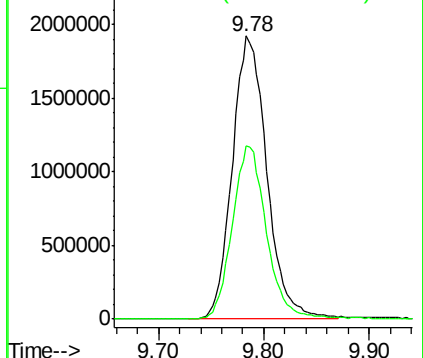
91 100

92 61.0 49.0 73.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 9.822 ppbv

RT: 10.59 min Scan# 2426

Delta R.T. -0.02 min

Lab File: VL037455.D

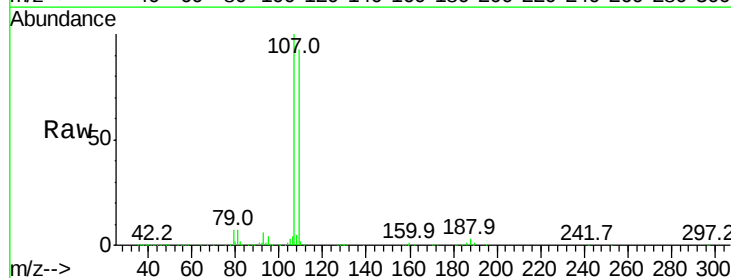
Acq: 16 Aug 2021 10:27

Tgt Ion: 107 Resp: 2201369

Ion Ratio Lower Upper

107 100

109 92.8 78.4 117.6



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

