

Data File : VL037147.D

Acq On : 14 Jun 2021 13:38

Operator : SY/AP

Sample : VSTDIC001

Misc : 400mL/MSVOA_L

ALS Vial : 1 Sample Multiplier: 1

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Quant Time: Jun 14 14:08:38 2021

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL061421AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 12:00:15 2021

QLast Update : Tue May 18 12:00:15 2021

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1601866	10.00	ppbv	0.03
33) 1,4-Difluorobenzene	7.19	114	4887264	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.10	117	4516936	10.00	ppbv	0.04

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	3282798	9.67	ppbv	0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.70%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.05	85	291286	1.072	ppbv	94
3) Chlorodifluoromethane	2.99	51	318297	1.085	ppbv	97
4) Chloromethane	3.15	50	106769	1.069	ppbv	98
5) Vinyl Chloride	3.26	62	106592	0.977	ppbv	99
6) Bromomethane	3.48	94	62601	1.088	ppbv	92
7) Chloroethane	3.56	64	14813	0.418	ppbv	95
8) Dichlorotetrafluoroethane	3.19	85	292251	1.145	ppbv	94
9) Propene	3.01	41	104038	0.990	ppbv	99
10) Heptane	8.14	43	239099	0.913	ppbv	98
11) Trichlorofluoromethane	3.96	101	295205	1.174	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.49	101	210486	1.175	ppbv	97
13) Ethanol	3.63	45	7318	0.522	ppbv #	35
14) Bromoethene	3.75	108	69997	0.887	ppbv #	74
15) Acetone	3.87	43	192744	1.175	ppbv #	74
16) 1,3-Butadiene	3.33	39	87794	0.861	ppbv	86
17) tert-Butyl alcohol	4.32	59	147232	0.980	ppbv #	94
18) 1,1-Dichloroethene	4.30	96	88720	1.071	ppbv	96
19) Isopropyl Alcohol	4.00	45	70481	0.799	ppbv #	30
20) Methylene Chloride	4.35	84	72919	0.829	ppbv	96
21) Allyl Chloride	4.42	41	121135	0.979	ppbv	94
22) trans-1,2-Dichloroethene	4.90	96	76905	0.969	ppbv	92
23) Vinyl Acetate	5.09	43	239886	0.921	ppbv	98
24) 1,1-Dichloroethane	5.02	63	198427	1.059	ppbv	98
25) Ethyl Acetate	5.70	43	356309	0.904	ppbv #	96
26) Hexane	5.70	57	197206	0.979	ppbv	96
27) Carbon Disulfide	4.56	76	173539	0.855	ppbv #	97
28) Methyl tert-Butyl Ether	5.05	73	232812	0.964	ppbv	100
29) Chloroform	5.76	83	313569	1.102	ppbv	95
30) Cyclohexane	7.14	84	162100	0.947	ppbv	90
31) cis-1,2-Dichloroethene	5.56	61	171201	0.948	ppbv	99
32) 1,1,1-Trichloroethane	6.52	97	301136	0.986	ppbv	97
34) 2-Butanone	5.27	43	172131	0.967	ppbv #	87
35) Carbon Tetrachloride	7.03	117	313944	0.967	ppbv	98
36) Benzene	6.90	78	385634	0.916	ppbv	98
37) 1,2-Dichloroethane	6.31	62	207717	0.995	ppbv	99
38) Trichloroethene	7.84	130	165341	0.918	ppbv	95
39) 1,2-Dichloropropane	7.62	63	143674	0.886	ppbv #	86
41) Tetrahydrofuran	6.08	42	74964	0.740	ppbv #	87
42) Bromodichloromethane	7.80	83	301278	0.954	ppbv	94
43) Methyl Methacrylate	8.03	69	104162	0.718	ppbv #	79
44) 2,2,4-Trimethylpentane	7.88	57	660309	0.914	ppbv	98

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Sample : VSTDIC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

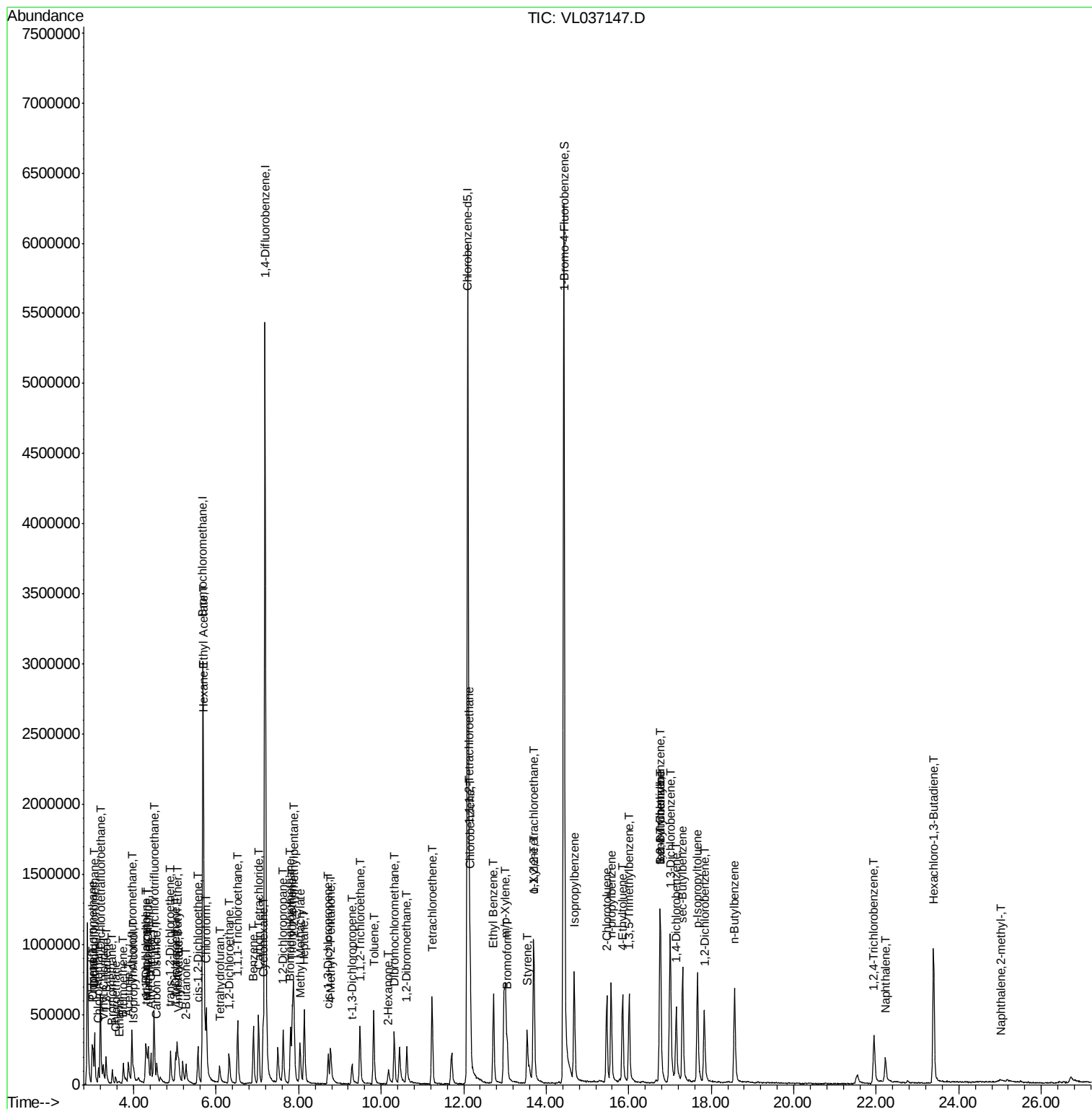
Quant Time: Jun 14 14:08:38 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL061421AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 12:00:15 2021
QLast Update : Tue May 18 12:00:15 2021
Response via : Initial Calibration

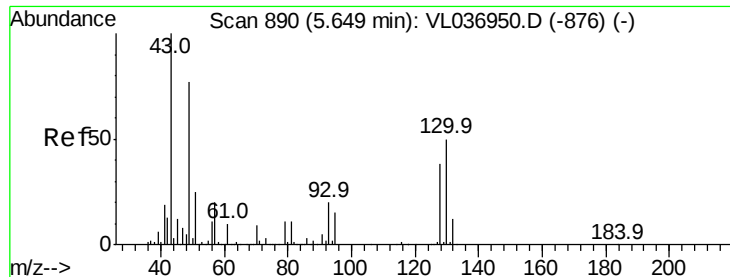
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) t-1,3-Dichloropropene	9.29	75	89757	0.810	ppbv	100
46) cis-1,3-Dichloropropene	8.72	75	126279	0.847	ppbv	98
47) 1,1,2-Trichloroethane	9.48	97	163108	0.961	ppbv	93
48) Dibromochloromethane	10.32	129	243956	0.888	ppbv	98
49) Bromoform	13.06	173	71655	0.316	ppbv #	26
50) 4-Methyl-2-Pentanone	8.78	43	242191	0.825	ppbv	97
51) 2-Hexanone	10.17	43	30187	0.194	ppbv #	27
52) Tetrachloroethene	11.24	164	167115	0.998	ppbv	96
53) Toluene	9.82	91	451761	0.902	ppbv	98
54) 1,2-Dibromoethane	10.63	107	79840	0.331	ppbv	92
56) 1,1,1,2-Tetrachloroethane	12.14	131	196200	1.032	ppbv #	1
57) Chlorobenzene	12.16	112	362577	1.035	ppbv	92
58) Ethyl Benzene	12.72	91	358009	0.562	ppbv	98
59) m/p-Xylene	13.01	91	502905	0.954	ppbv #	26
60) o-Xylene	13.70	91	505948	1.007	ppbv	97
61) Styrene	13.54	104	250919	0.886	ppbv	97
62) Isopropylbenzene	14.68	105	741870	1.027	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.69	83	338401	0.902	ppbv	97
64) n-propylbenzene	15.57	120	178689	0.959	ppbv	77
65) tert-Butylbenzene	16.75	119	674401	1.035	ppbv	97
66) Benzyl Chloride	16.76	91	519877	14.376	ppbv #	62
67) sec-Butylbenzene	17.31	105	870035	0.979	ppbv	100
69) p-Isopropyltoluene	17.67	119	707479	0.925	ppbv	98
70) n-Butylbenzene	18.56	91	631076	0.869	ppbv	99
71) 2-Chlorotoluene	15.47	91	513488	0.984	ppbv	100
72) 4-Ethyltoluene	15.86	105	569194	0.954	ppbv	99
73) 1,3,5-Trimethylbenzene	16.02	105	188631	0.337	ppbv	97
74) 1,2,4-Trimethylbenzene	16.78	105	571383	0.987	ppbv	97
75) 1,3-Dichlorobenzene	17.01	146	314560	0.889	ppbv	91
76) 1,4-Dichlorobenzene	17.15	146	294128	0.823	ppbv	90
77) 1,2-Dichlorobenzene	17.83	146	177051	0.500	ppbv #	26
78) Hexachloro-1,3-Butadiene	23.39	225	243174	0.853	ppbv	96
79) Naphthalene	22.23	128	236969	0.521	ppbv #	96
80) Naphthalene,2-methyl-	25.01	142	10866	0.110	ppbv #	81
81) 1,2,4-Trichlorobenzene	21.95	180	52377	0.189	ppbv #	1

(#) = 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: 5.68 min Scan# 899

Delta R.T. 0.03 min

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ClientSampleId :

VSTDIC001

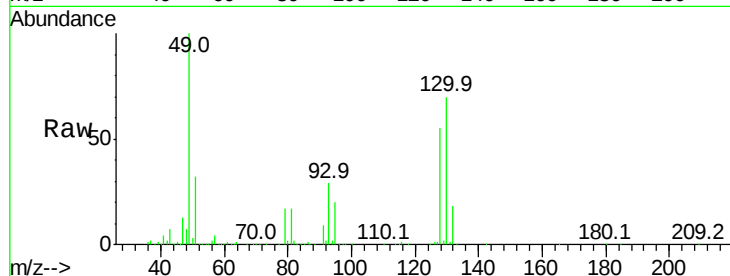
Tgt Ion: 49 Resp: 1601866

Ion Ratio Lower Upper

49 100

128 59.0 26.9 80.7

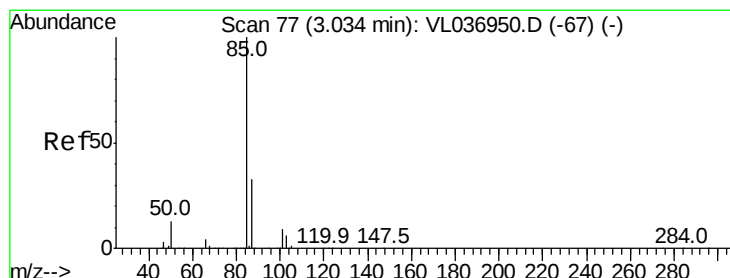
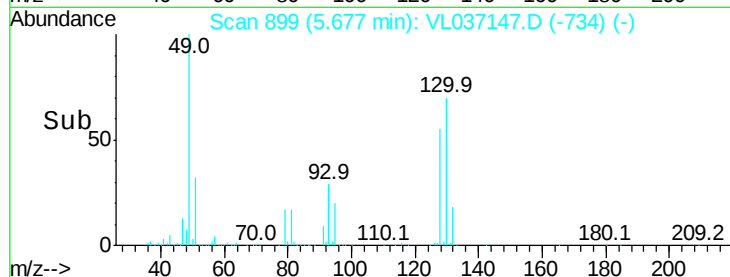
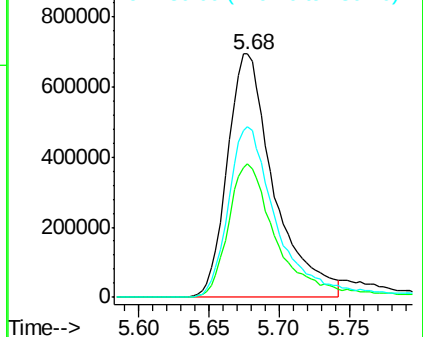
130 75.4 33.8 101.4



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: 1.072 ppbv

RT: 3.05 min Scan# 83

Delta R.T. 0.02 min

Lab File: VL037147.D

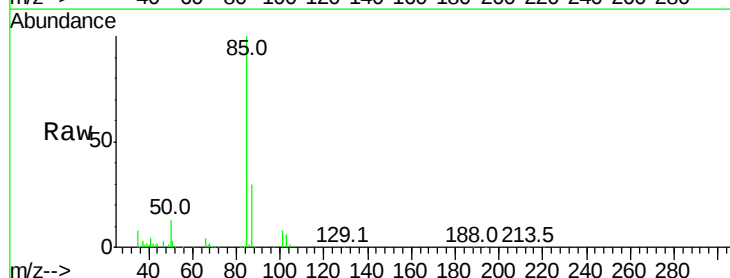
Acq: 14 Jun 2021 13:38

Tgt Ion: 85 Resp: 291286

Ion Ratio Lower Upper

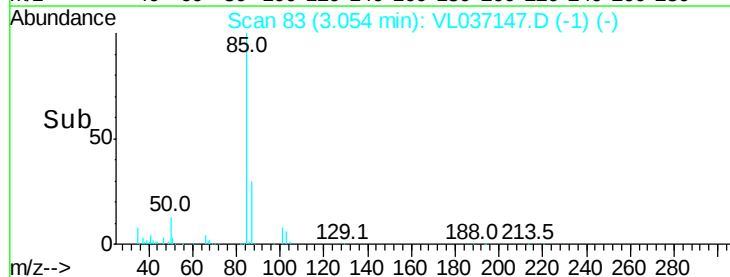
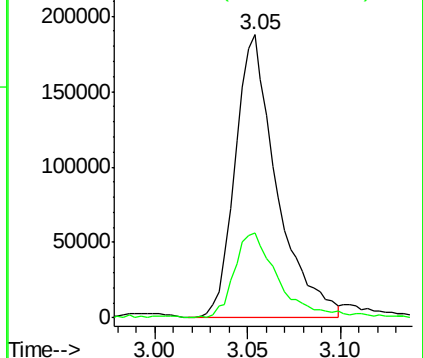
85 100

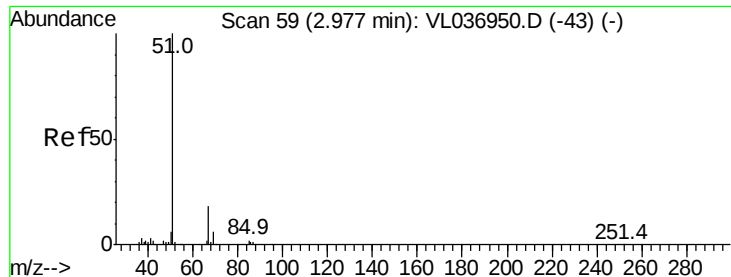
87 30.0 26.6 39.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.085 ppbv

RT: 2.99 min Scan# 64

Delta R.T. 0.02 min

Lab File: VL037147.D

Acq: 14 Jun 2021 13:38

Instrument :

MSVOA_L

ClientSampleId :

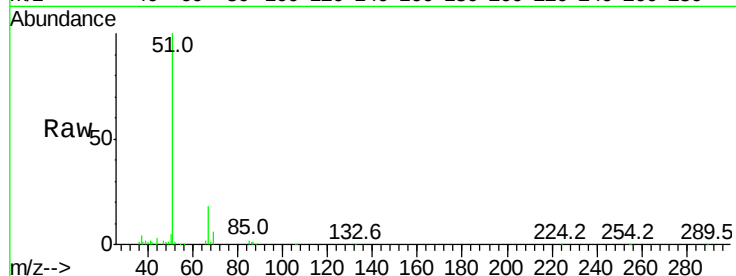
VSTDIC001

Tgt Ion: 51 Resp: 318297

Ion Ratio Lower Upper

51 100

67 19.7 14.6 21.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

2.99

200000

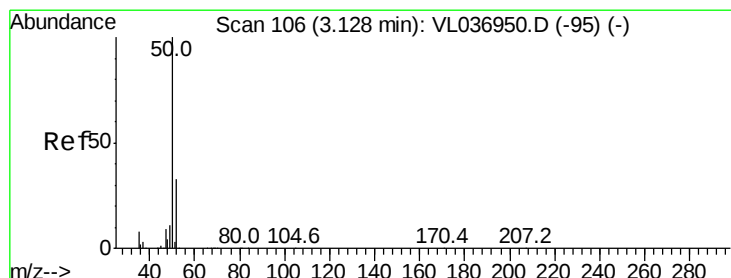
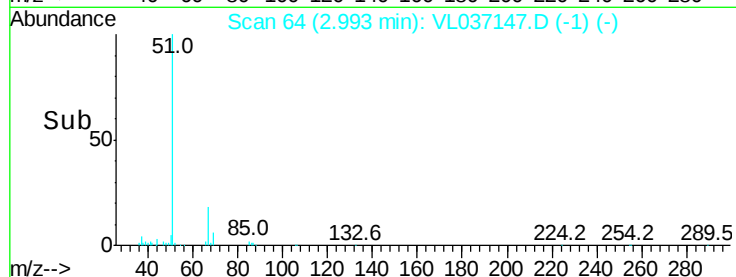
150000

100000

50000

0

Time-->



#4

Chloromethane

Concen: 1.069 ppbv

RT: 3.15 min Scan# 112

Delta R.T. 0.02 min

Lab File: VL037147.D

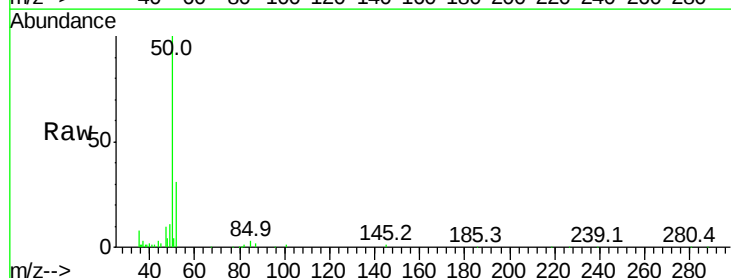
Acq: 14 Jun 2021 13:38

Tgt Ion: 50 Resp: 106769

Ion Ratio Lower Upper

50 100

52 31.4 26.1 39.1



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

3.15

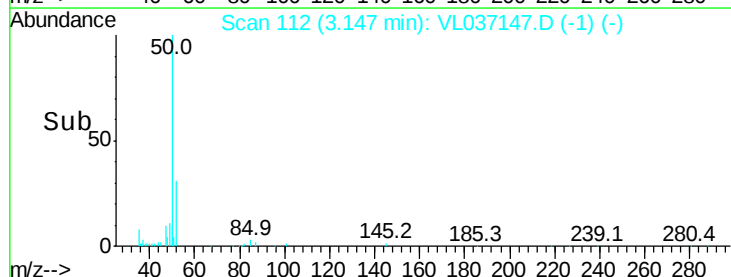
60000

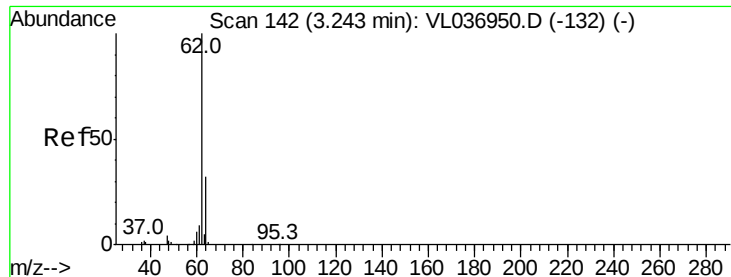
40000

20000

0

Time-->





#5

Vinyl Chloride

Concen: 0.977 ppbv

RT: 3.26 min Scan# 148

Delta R.T. 0.02 min

Lab File: VL037147.D

Acq: 14 Jun 2021 13:38

Instrument :

MSVOA_L

ClientSampleId :

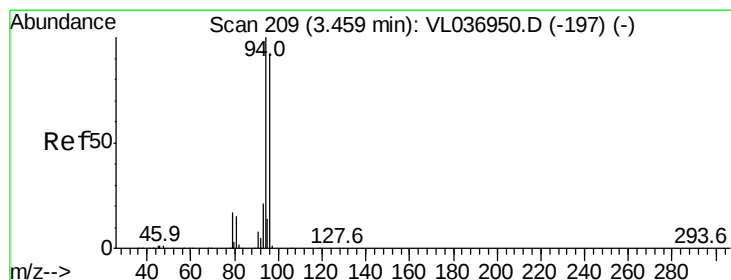
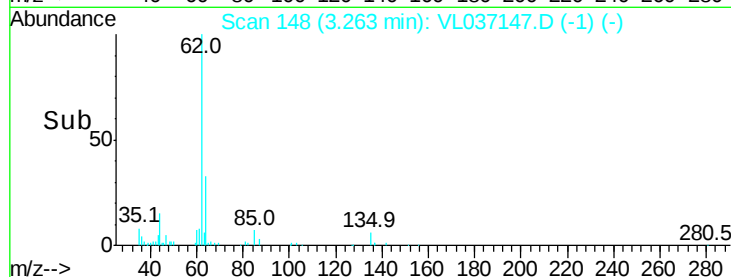
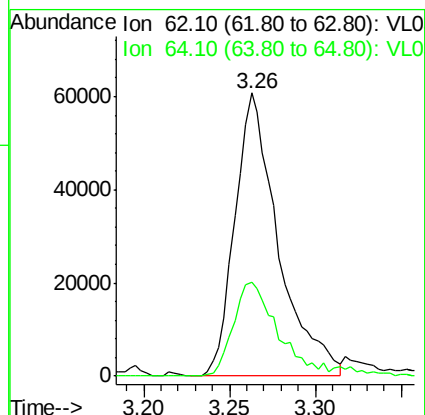
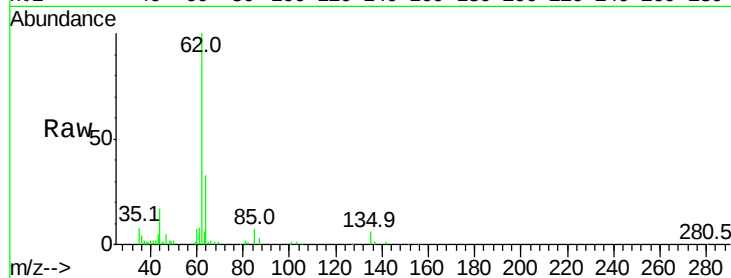
VSTDIC001

Tgt Ion: 62 Resp: 106592

Ion Ratio Lower Upper

62 100

64 33.1 25.9 38.9



#6

Bromomethane

Concen: 1.088 ppbv

RT: 3.48 min Scan# 216

Delta R.T. 0.02 min

Lab File: VL037147.D

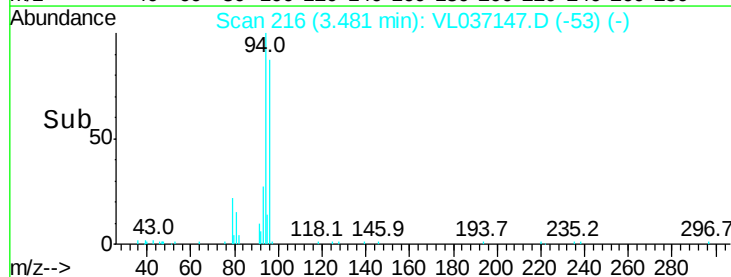
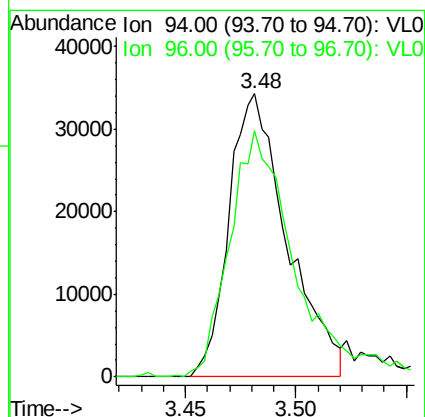
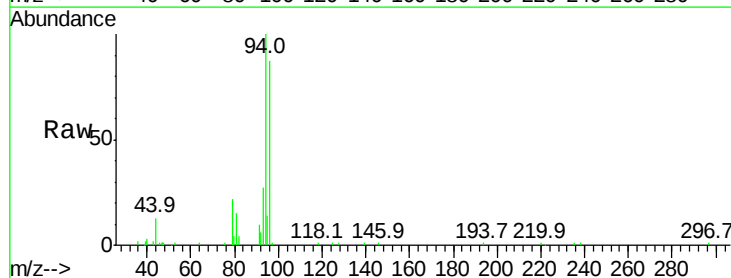
Acq: 14 Jun 2021 13:38

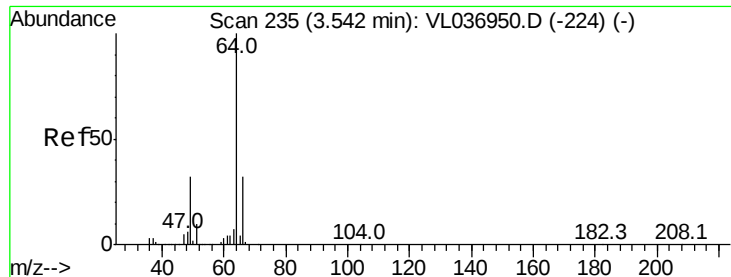
Tgt Ion: 94 Resp: 62601

Ion Ratio Lower Upper

94 100

96 85.1 74.0 111.0





#7

Chloroethane

Concen: 0.418 ppbv

RT: 3.56 min Scan# 240

Delta R.T. 0.02 min

Lab File: VL037147.D

Acq: 14 Jun 2021 13:38

Instrument :

MSVOA_L

ClientSampleId :

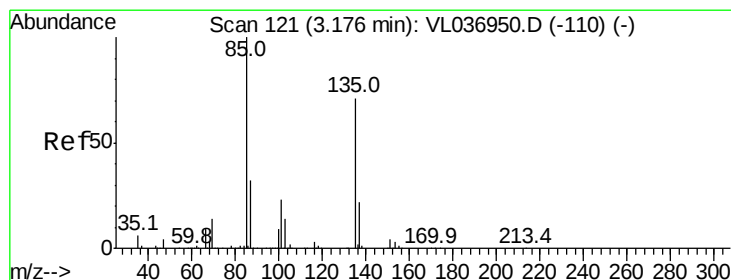
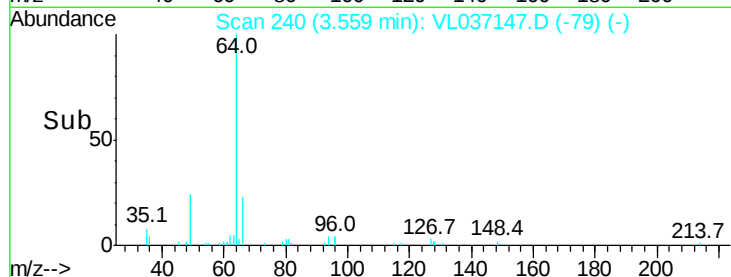
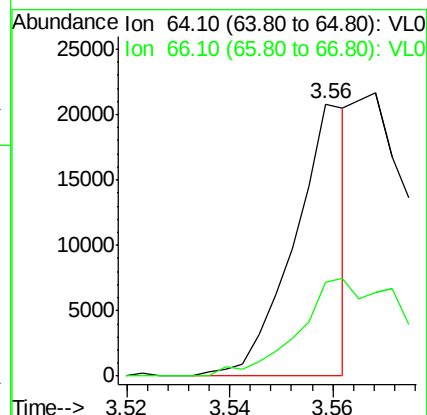
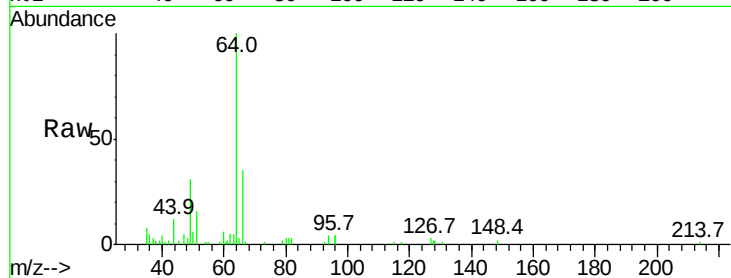
VSTDIC001

Tgt Ion: 64 Resp: 14813

Ion Ratio Lower Upper

64 100

66 34.7 25.4 38.2



#8

Dichlorotetrafluoroethane

Concen: 1.145 ppbv

RT: 3.19 min Scan# 126

Delta R.T. 0.02 min

Lab File: VL037147.D

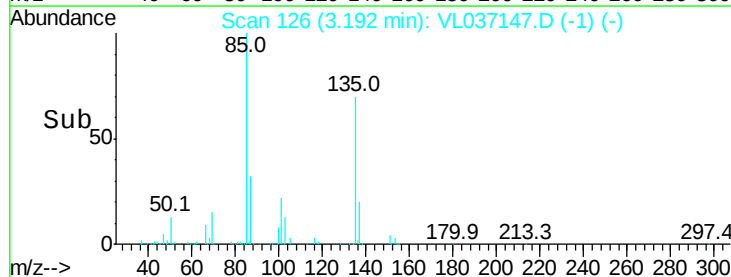
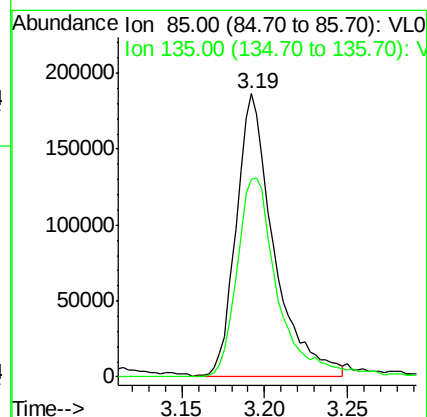
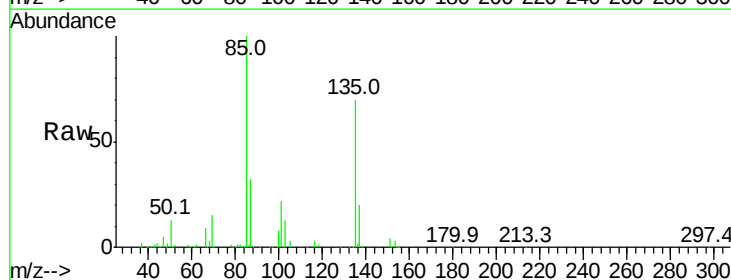
Acq: 14 Jun 2021 13:38

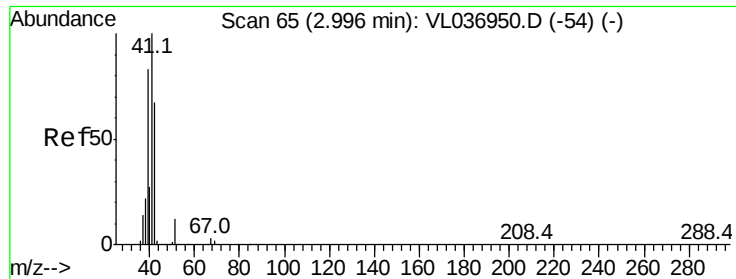
Tgt Ion: 85 Resp: 292251

Ion Ratio Lower Upper

85 100

135 77.4 57.7 86.5





#9

Propene

Concen: 0.990 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.02 min

Lab File: VL037147.D

Acq: 14 Jun 2021 13:38

Instrument :

MSVOA_L

ClientSampleId :

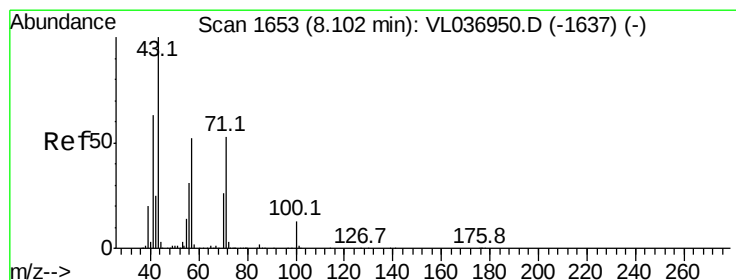
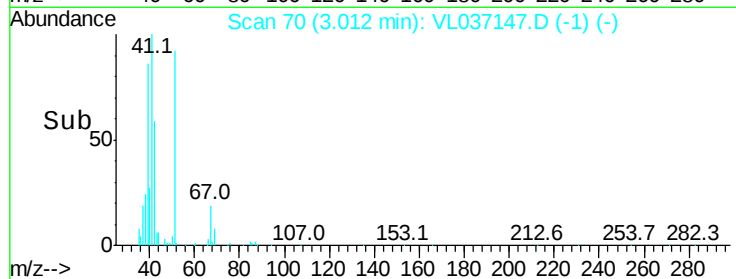
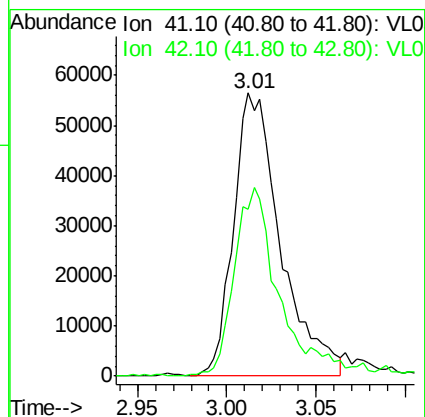
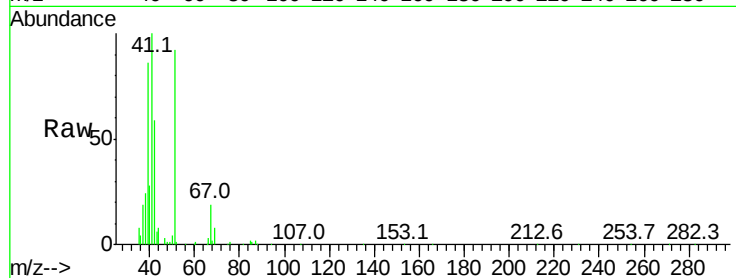
VSTDIC001

Tgt Ion: 41 Resp: 104038

Ion Ratio Lower Upper

41 100

42 66.2 53.9 80.9



#10

Heptane

Concen: 0.913 ppbv

RT: 8.14 min Scan# 1664

Delta R.T. 0.04 min

Lab File: VL037147.D

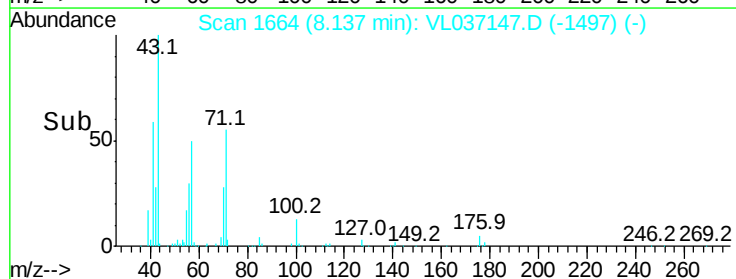
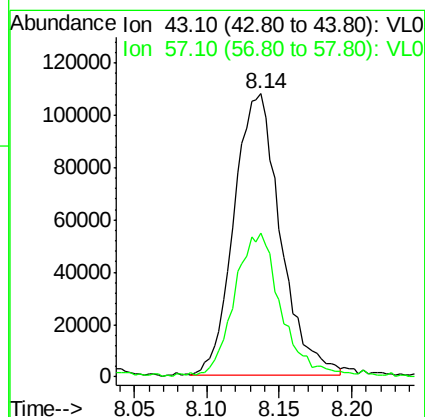
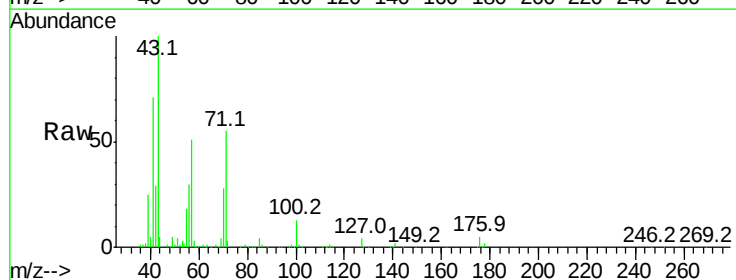
Acq: 14 Jun 2021 13:38

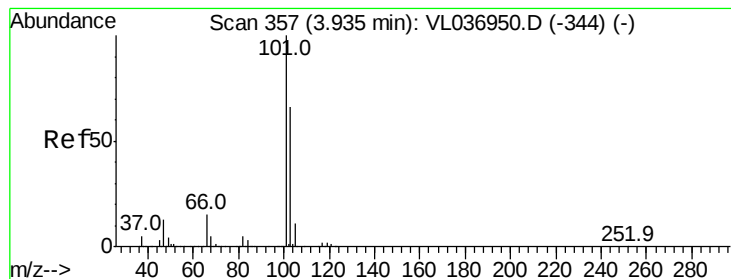
Tgt Ion: 43 Resp: 239099

Ion Ratio Lower Upper

43 100

57 53.0 41.0 61.6





#11

Trichlorofluoromethane

Concen: 1.174 ppbv

RT: 3.96 min Scan# 364

Delta R.T. 0.02 min

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Acq: 14 Jun 2021 13:38

Instrument :

MSVOA_L

ClientSampleId :

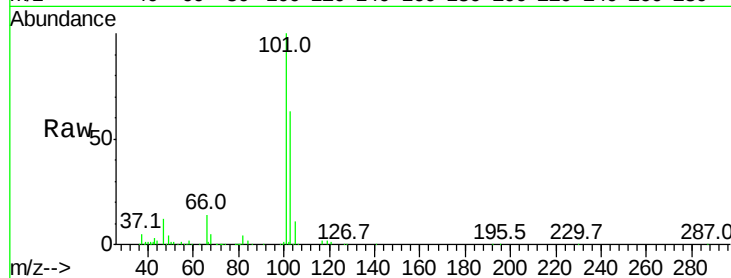
VSTDIC001

Tgt Ion:101 Resp: 295205

Ion Ratio Lower Upper

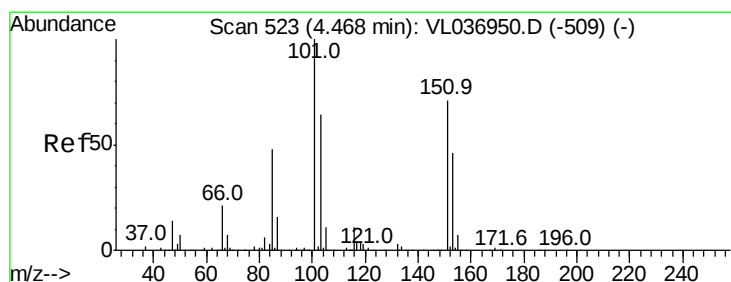
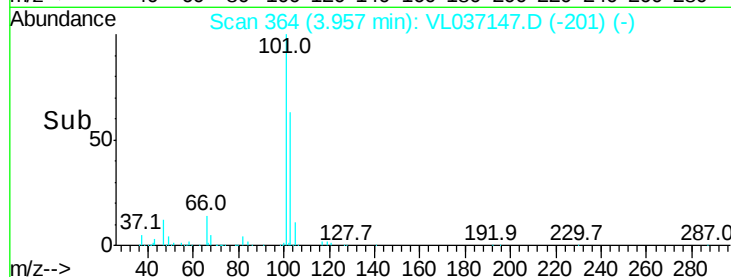
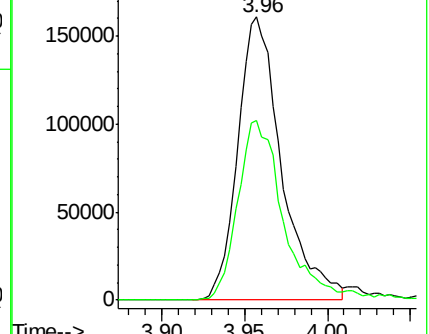
101 100

103 63.4 52.6 79.0



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: 1.175 ppbv

RT: 4.49 min Scan# 530

Delta R.T. 0.02 min

Lab File: VL037147.D

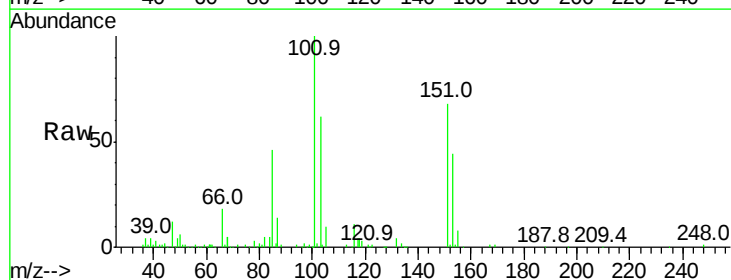
Acq: 14 Jun 2021 13:38

Tgt Ion:101 Resp: 210486

Ion Ratio Lower Upper

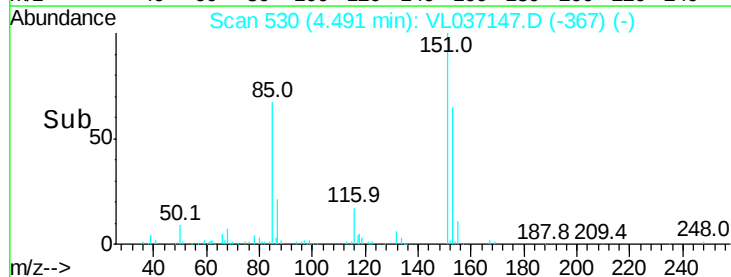
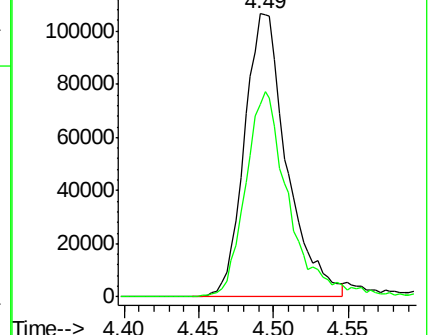
101 100

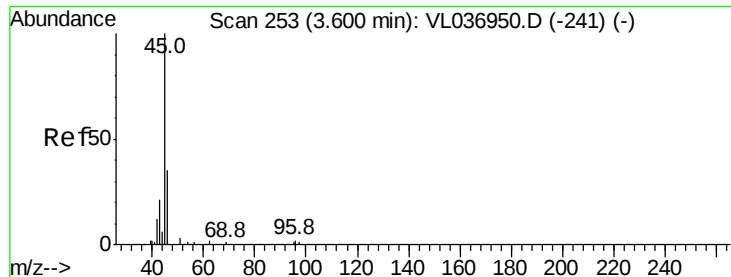
151 74.8 57.7 86.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 0.522 ppbv

RT: 3.63 min Scan# 263

Delta R.T. 0.03 min

Lab File: VL037147.D

Acq: 14 Jun 2021 13:38

Instrument :

MSVOA_L

ClientSampleId :

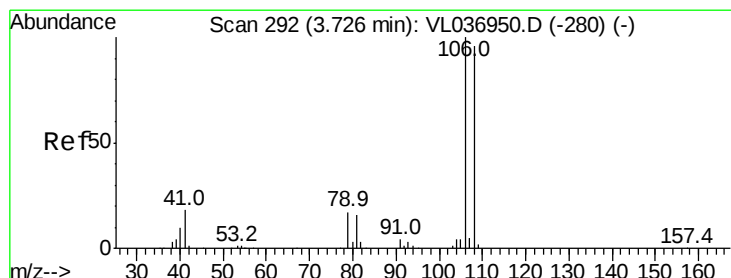
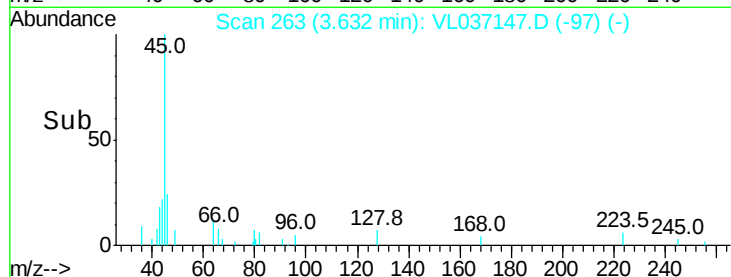
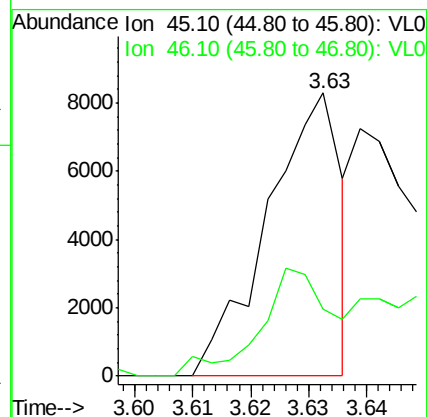
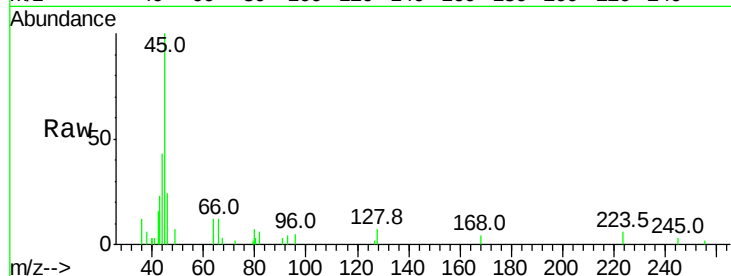
VSTDIC001

Tgt Ion: 45 Resp: 7318

Ion Ratio Lower Upper

45 100

46 0.0 16.3 65.3#



#14

Bromoethene

Concen: 0.887 ppbv

RT: 3.75 min Scan# 299

Delta R.T. 0.02 min

Lab File: VL037147.D

Acq: 14 Jun 2021 13:38

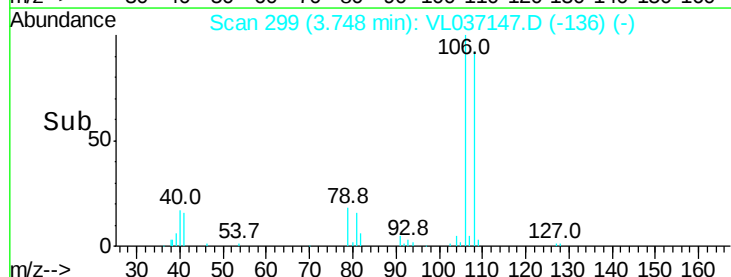
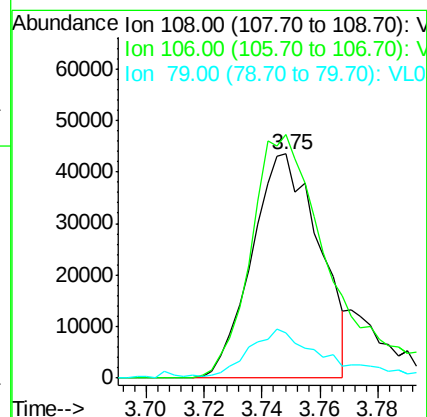
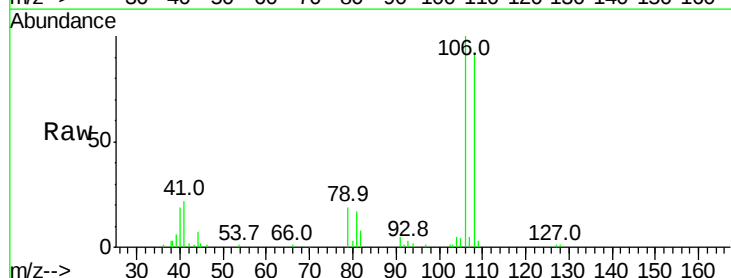
Tgt Ion: 108 Resp: 69997

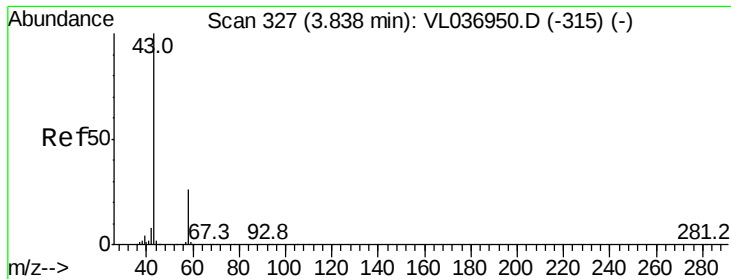
Ion Ratio Lower Upper

108 100

106 137.4 86.5 129.7#

79 26.5 15.0 22.4#





#15

Acetone

Concen: 1.175 ppbv

RT: 3.87 min Scan# 338

Delta R.T. 0.04 min

Lab File: VL037147.D

Acq: 14 Jun 2021 13:38

Instrument :

MSVOA_L

ClientSampleId :

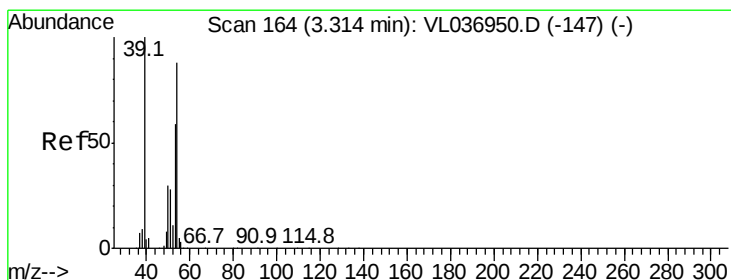
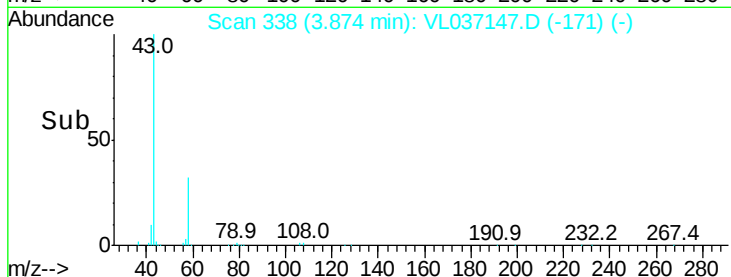
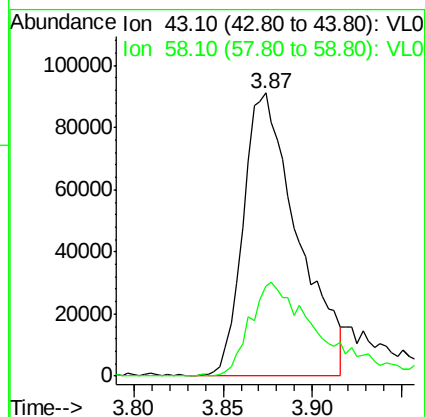
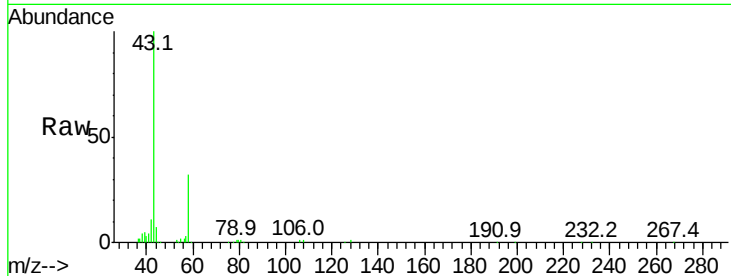
VSTDIC001

Tgt Ion: 43 Resp: 192744

Ion Ratio Lower Upper

43 100

58 44.1 24.0 36.0#



#16

1,3-Butadiene

Concen: 0.861 ppbv

RT: 3.33 min Scan# 169

Delta R.T. 0.02 min

Lab File: VL037147.D

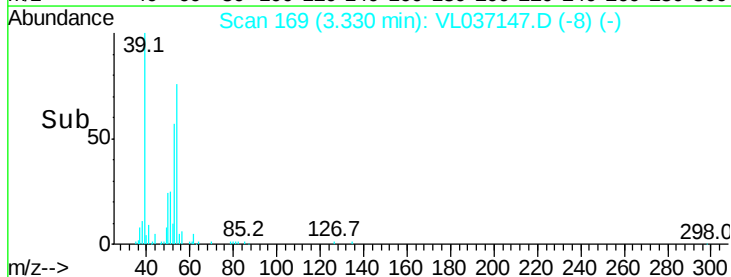
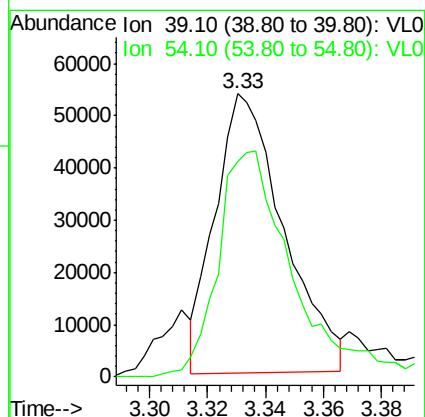
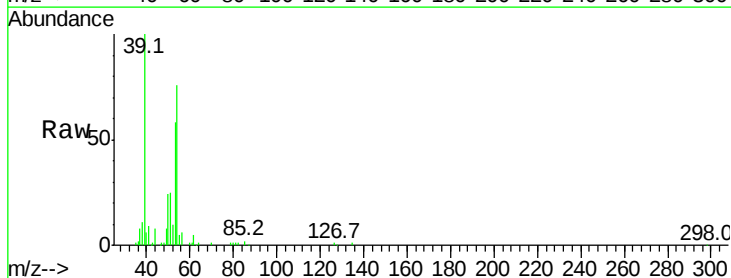
Acq: 14 Jun 2021 13:38

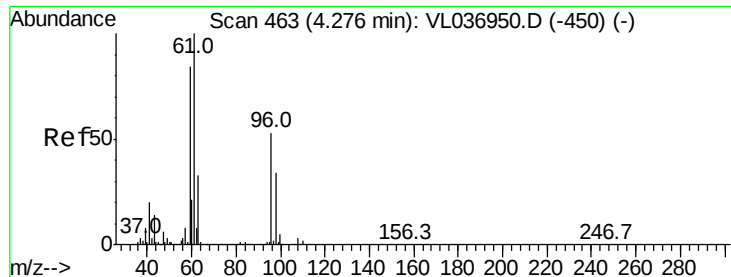
Tgt Ion: 39 Resp: 87794

Ion Ratio Lower Upper

39 100

54 91.3 63.2 94.8



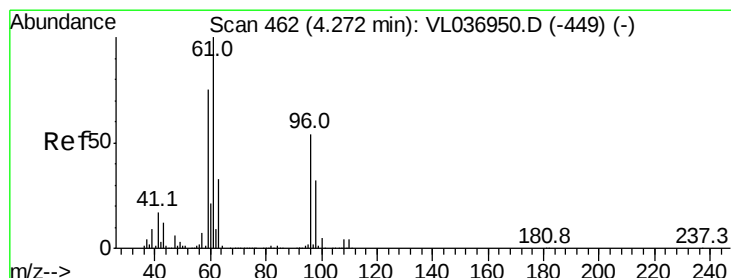
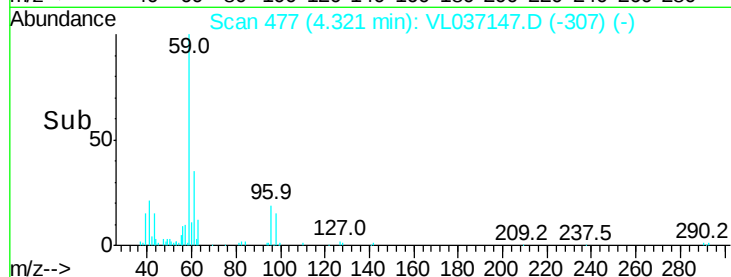
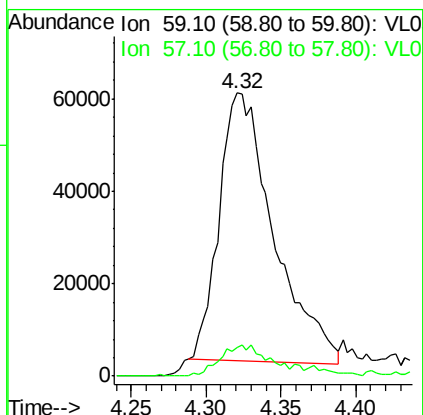
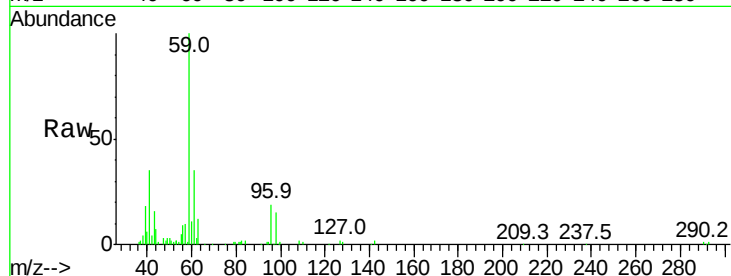


#17

tert-Butyl alcohol
Concen: 0.980 ppbv
RT: 4.32 min Scan# 477
Delta R.T. 0.05 min
Lab File: VL037147.D
Acq: 14 Jun 2021 13:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

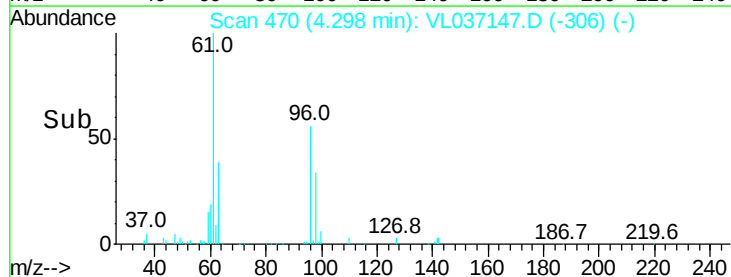
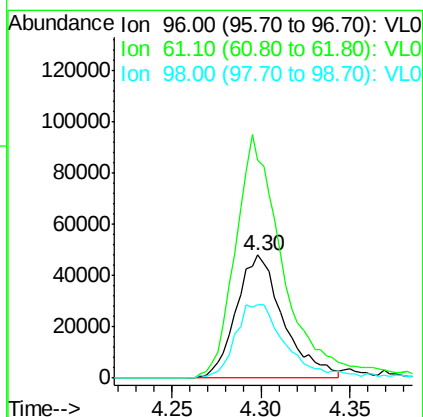
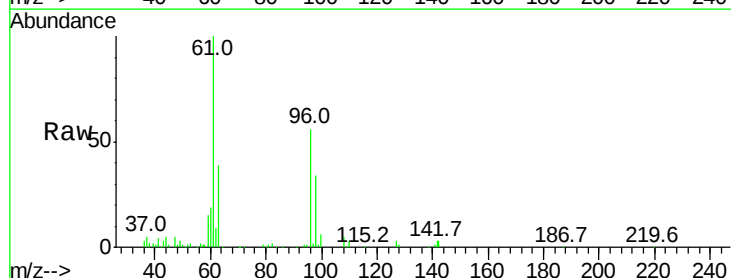
Tgt Ion: 59 Resp: 147232
Ion Ratio Lower Upper
59 100
57 12.6 8.3 12.5#

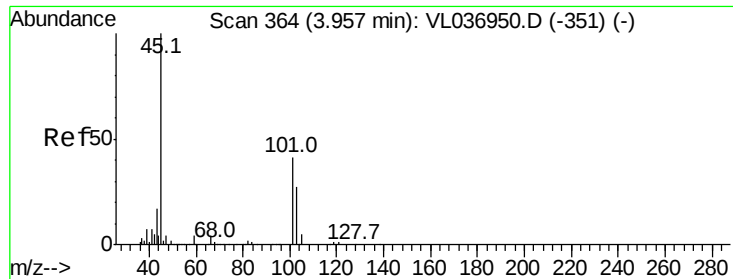


#18

1,1-Dichloroethene
Concen: 1.071 ppbv
RT: 4.30 min Scan# 470
Delta R.T. 0.03 min
Lab File: VL037147.D
Acq: 14 Jun 2021 13:38

Tgt Ion: 96 Resp: 88720
Ion Ratio Lower Upper
96 100
61 177.2 148.2 222.4
98 59.8 47.8 71.6





#19

Isopropyl Alcohol

Concen: 0.799 ppbv

RT: 4.00 min Scan# 377

Delta R.T. 0.04 min

Lab File: VL037147.D

Acq: 14 Jun 2021 13:38

Instrument :

MSVOA_L

ClientSampleId :

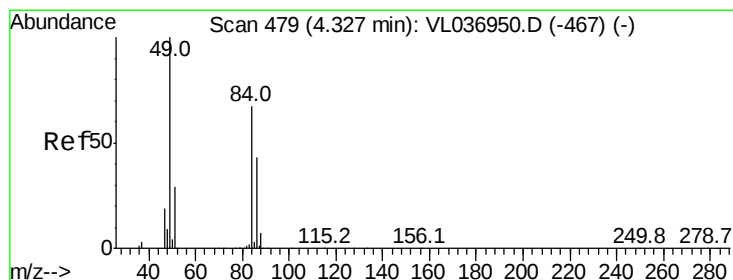
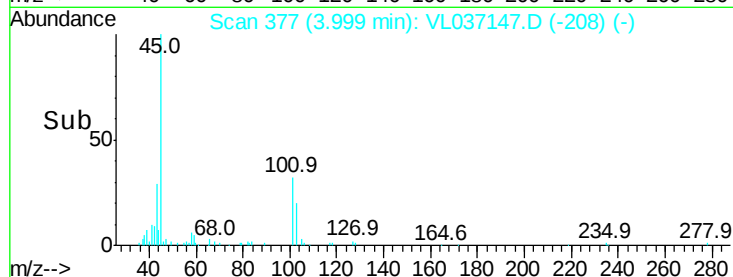
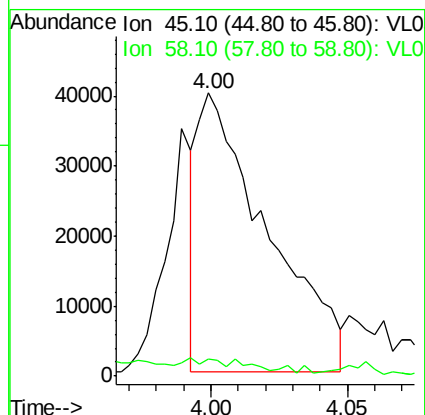
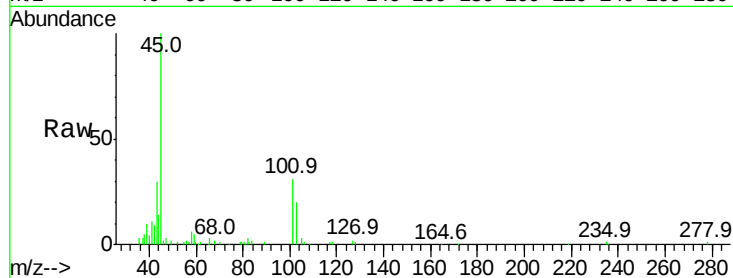
VSTDIC001

Tgt Ion: 45 Resp: 70481

Ion Ratio Lower Upper

45 100

58 0.0 37.2 55.8#



#20

Methylene Chloride

Concen: 0.829 ppbv

RT: 4.35 min Scan# 487

Delta R.T. 0.03 min

Lab File: VL037147.D

Acq: 14 Jun 2021 13:38

Tgt Ion: 84 Resp: 72919

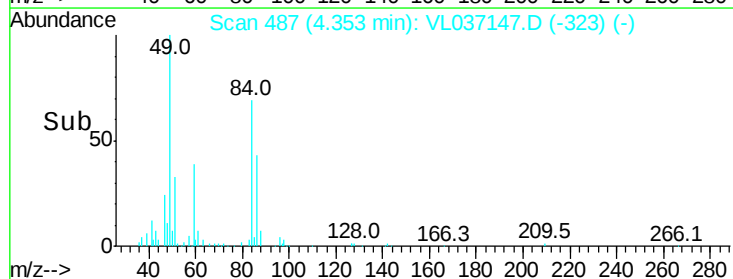
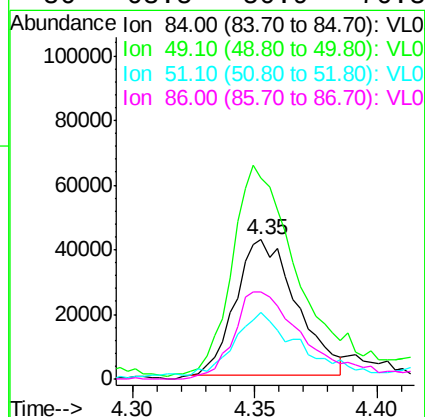
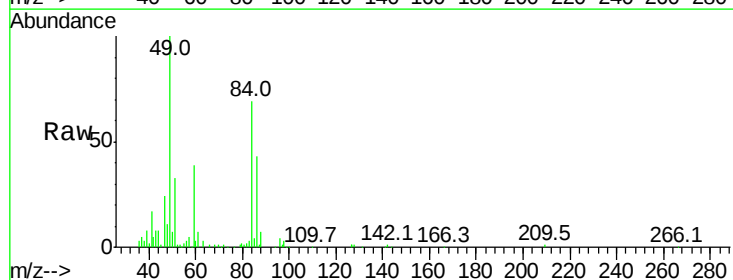
Ion Ratio Lower Upper

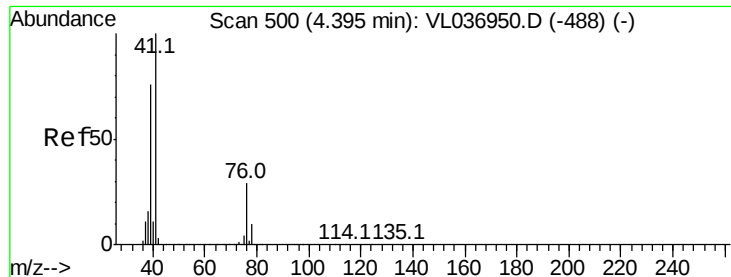
84 100

49 142.9 119.8 179.6

51 46.3 35.1 52.7

86 63.5 50.9 76.3





#21

Allyl Chloride

Concen: 0.979 ppbv

RT: 4.42 min Scan# 508

Delta R.T. 0.03 min

Lab File: VL037147.D

Acq: 14 Jun 2021 13:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

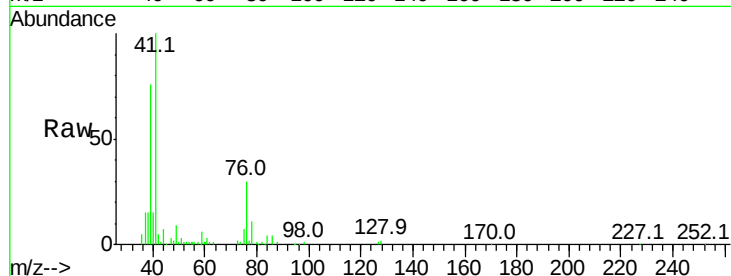
Tgt Ion: 41 Resp: 121135

Ion Ratio Lower Upper

41 100

76 32.3 24.9 37.3

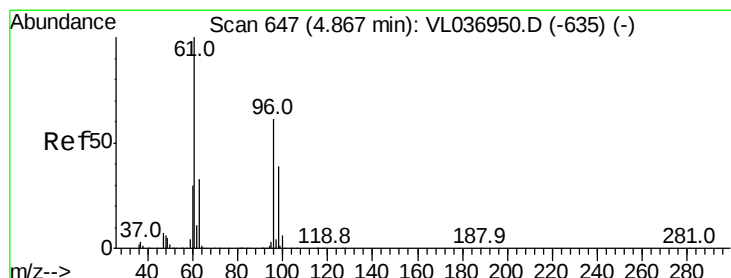
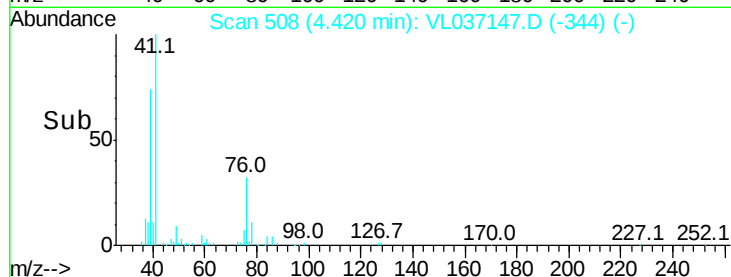
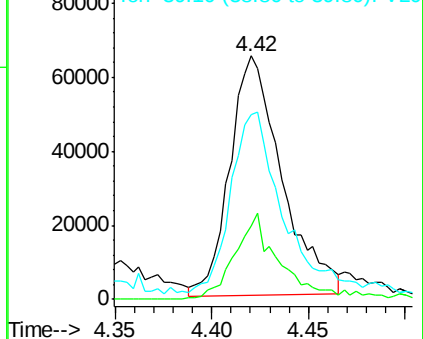
39 86.1 63.7 95.5



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

Ion 39.10 (38.80 to 39.80): VL0



#22

trans-1,2-Dichloroethene

Concen: 0.969 ppbv

RT: 4.90 min Scan# 656

Delta R.T. 0.03 min

Lab File: VL037147.D

Acq: 14 Jun 2021 13:38

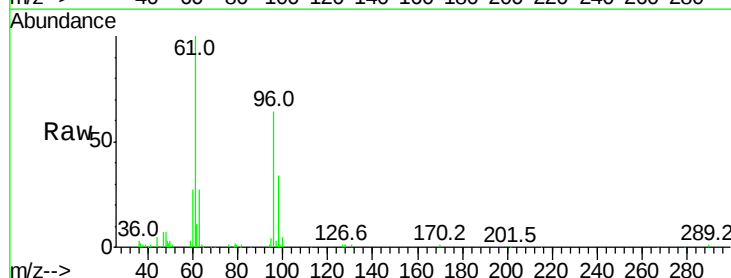
Tgt Ion: 96 Resp: 76905

Ion Ratio Lower Upper

96 100

61 156.4 130.6 196.0

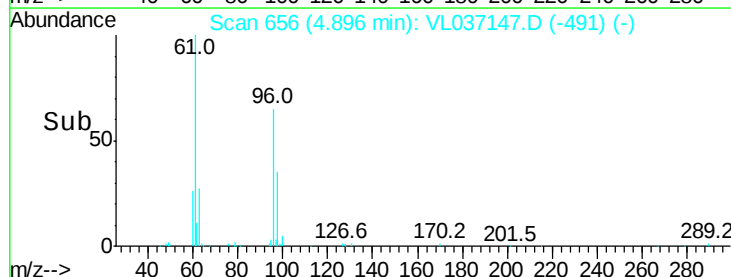
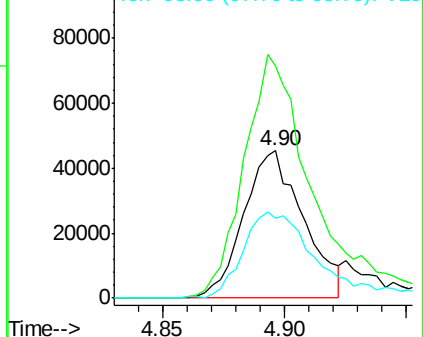
98 53.0 50.8 76.2

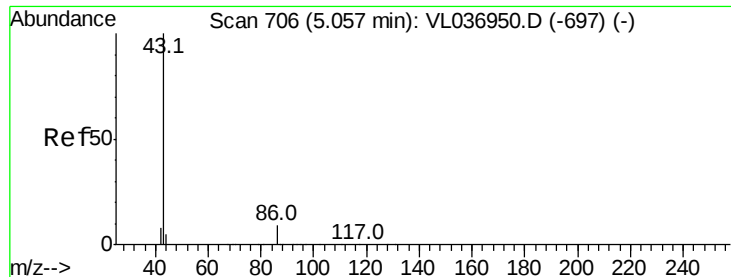


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#23

Vinyl Acetate

Concen: 0.921 ppbv

RT: 5.09 min Scan# 717

Delta R.T. 0.04 min

Lab File: VL037147.D

Acq: 14 Jun 2021 13:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion: 43 Resp: 239886

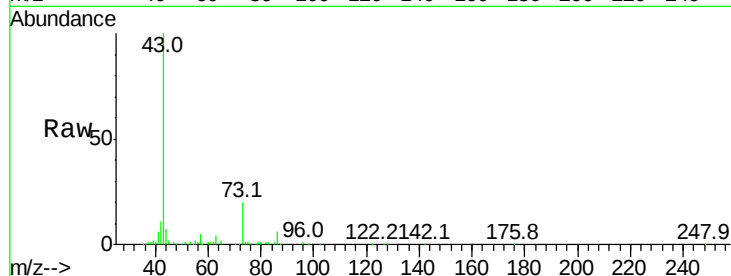
Ion Ratio Lower Upper

43 100

86 6.4 5.8 8.8

42 10.0 7.4 11.2

44 4.8 3.3 4.9

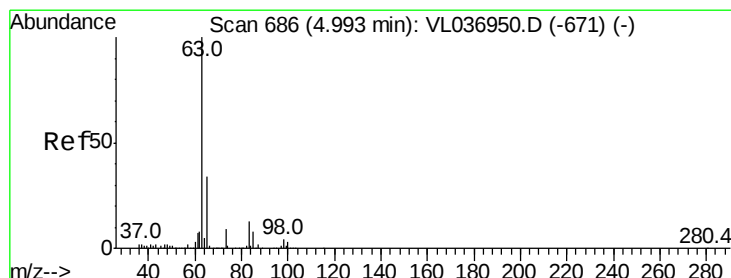
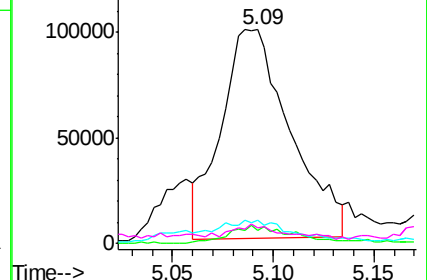
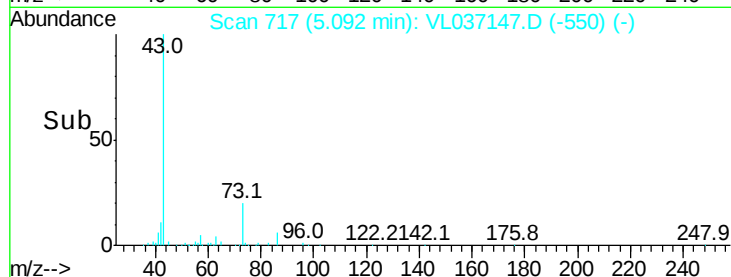


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 1.059 ppbv

RT: 5.02 min Scan# 694

Delta R.T. 0.03 min

Lab File: VL037147.D

Acq: 14 Jun 2021 13:38

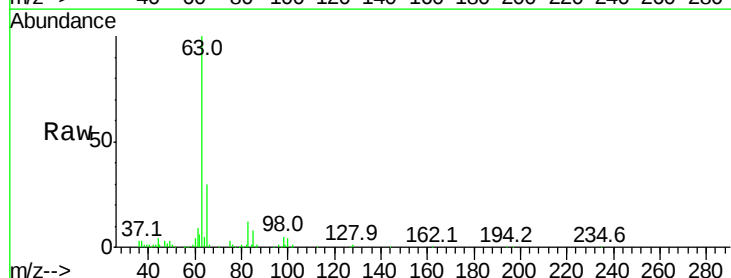
Tgt Ion: 63 Resp: 198427

Ion Ratio Lower Upper

63 100

98 4.3 2.3 6.9

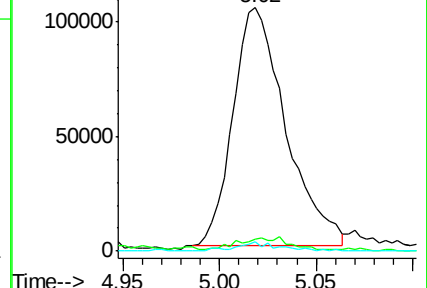
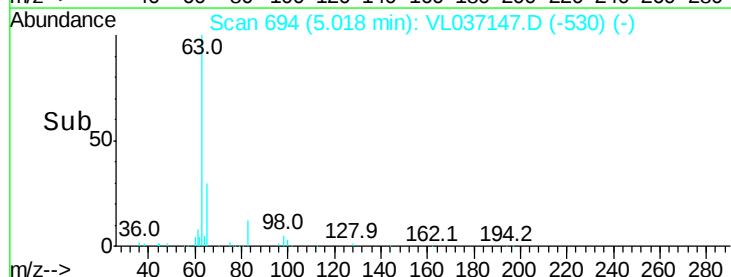
100 3.7 1.4 4.0

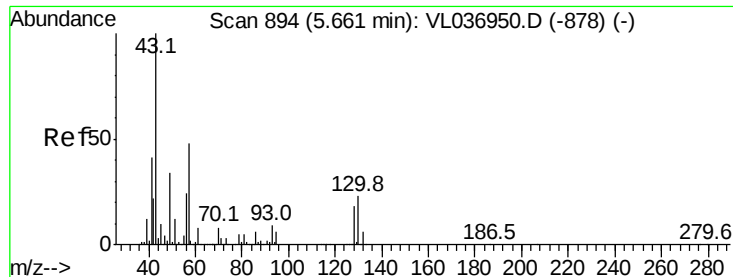


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 0.904 ppbv

RT: 5.70 min Scan# 905

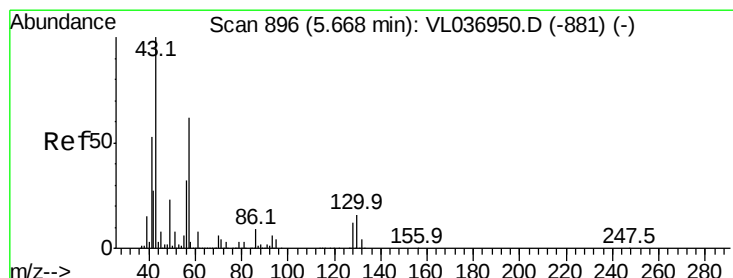
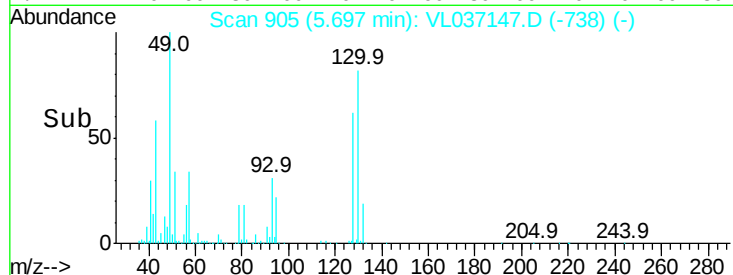
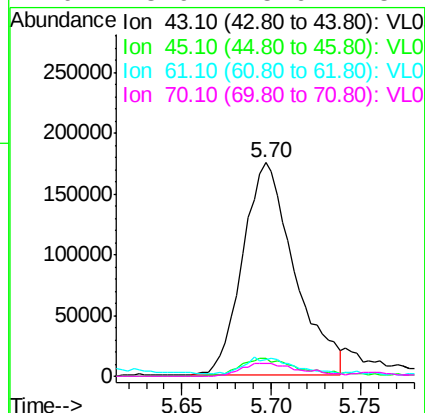
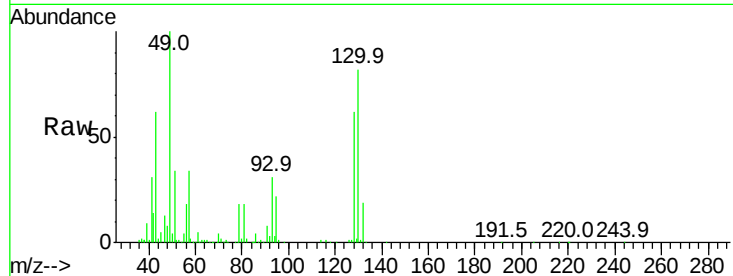
Delta R.T. 0.04 min

Lab File: VL037147.D

Acq: 14 Jun 2021 13:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion:	43	Resp:	356309
Ion	Ratio	Lower	Upper
43	100		
45	11.1	7.8	11.8
61	10.9	7.8	11.8
70	8.9	5.6	8.4#



#26

Hexane

Concen: 0.979 ppbv

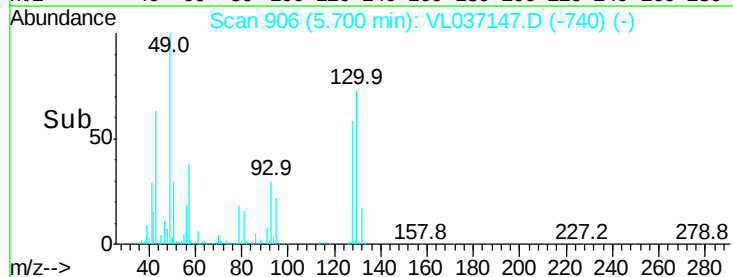
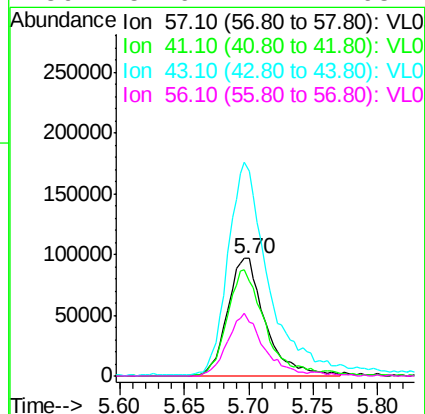
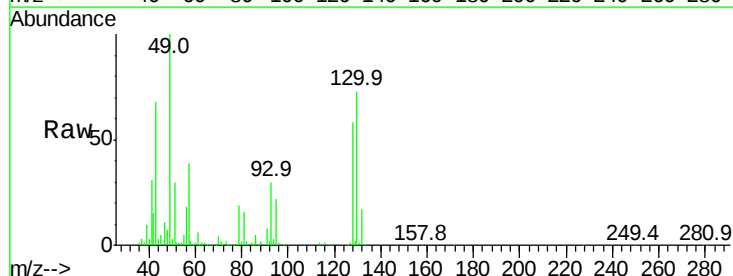
RT: 5.70 min Scan# 906

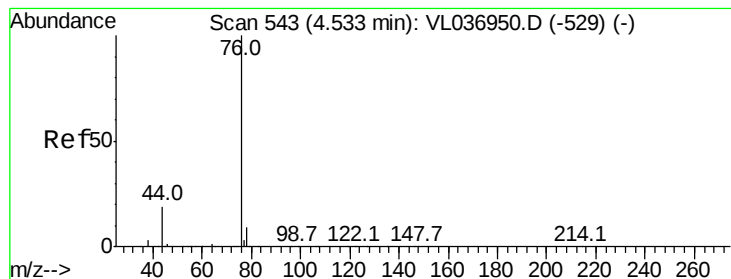
Delta R.T. 0.03 min

Lab File: VL037147.D

Acq: 14 Jun 2021 13:38

Tgt Ion:	57	Resp:	197206
Ion	Ratio	Lower	Upper
57	100		
41	91.2	70.5	105.7
43	198.9	165.8	248.8
56	52.6	42.2	63.4





#27

Carbon Disulfide

Concen: 0.855 ppbv

RT: 4.56 min Scan# 552

Delta R.T. 0.03 min

Lab File: VL037147.D

Acq: 14 Jun 2021 13:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

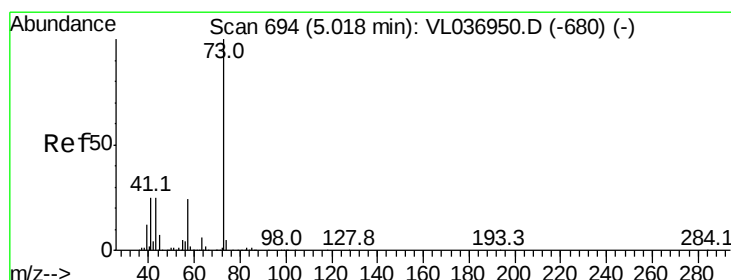
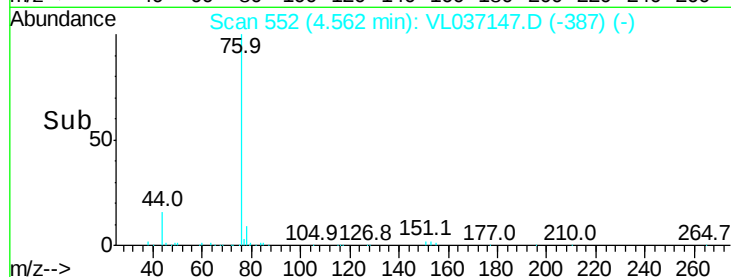
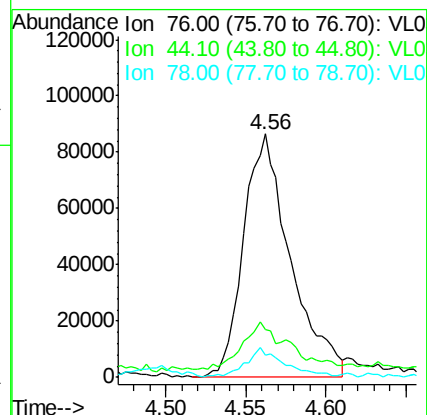
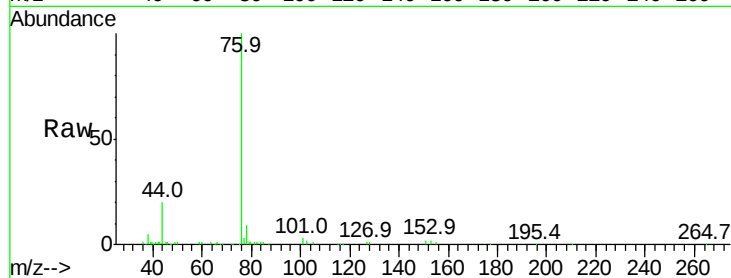
Tgt Ion: 76 Resp: 173539

Ion Ratio Lower Upper

76 100

44 20.1 15.5 23.3

78 12.1 7.8 11.6#



#28

Methyl tert-Butyl Ether

Concen: 0.964 ppbv

RT: 5.05 min Scan# 705

Delta R.T. 0.04 min

Lab File: VL037147.D

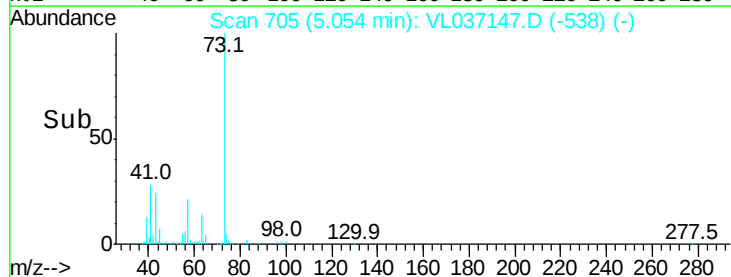
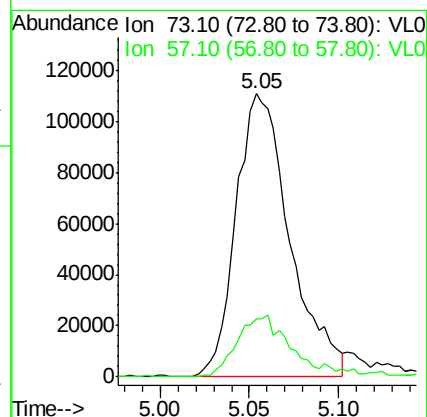
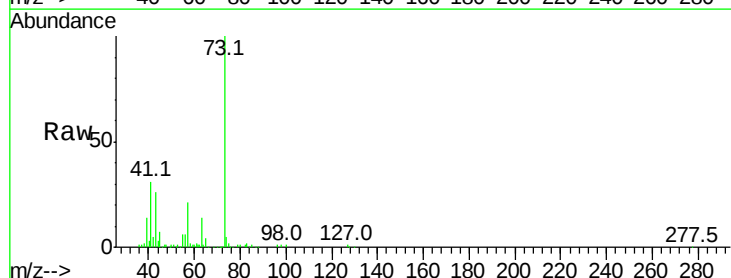
Acq: 14 Jun 2021 13:38

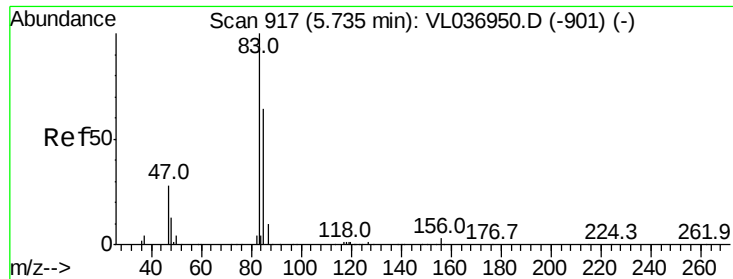
Tgt Ion: 73 Resp: 232812

Ion Ratio Lower Upper

73 100

57 23.0 18.3 27.5





#29

Chloroform

Concen: 1.102 ppbv

RT: 5.76 min Scan# 925

Delta R.T. 0.03 min

Lab File: VL037147.D

Acq: 14 Jun 2021 13:38

Instrument :

MSVOA_L

ClientSampleId :

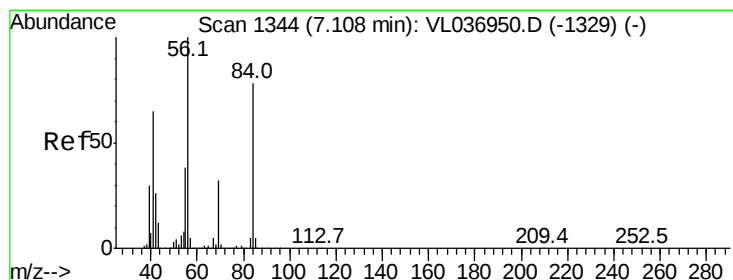
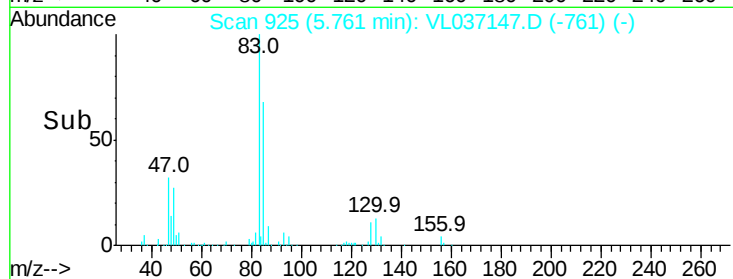
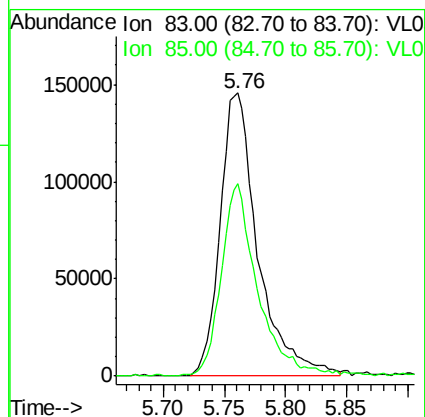
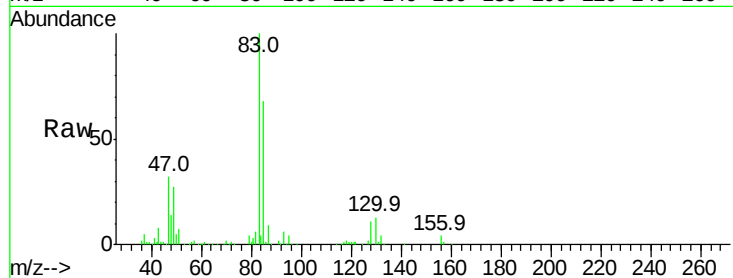
VSTDIC001

Tgt Ion: 83 Resp: 313569

Ion Ratio Lower Upper

83 100

85 67.4 51.1 76.7



#30

Cyclohexane

Concen: 0.947 ppbv

RT: 7.14 min Scan# 1353

Delta R.T. 0.03 min

Lab File: VL037147.D

Acq: 14 Jun 2021 13:38

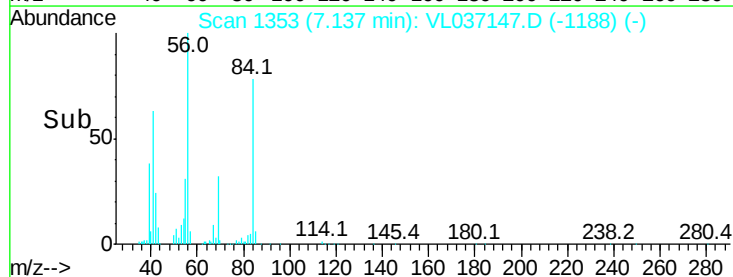
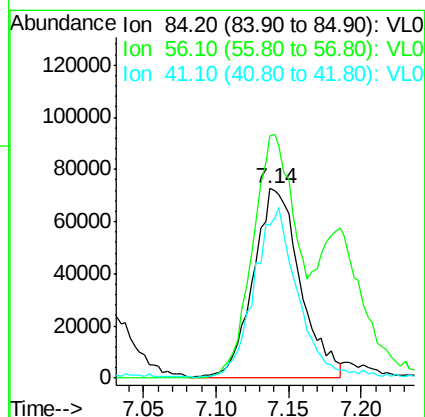
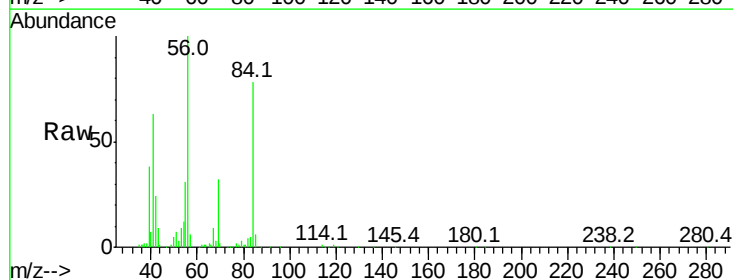
Tgt Ion: 84 Resp: 162100

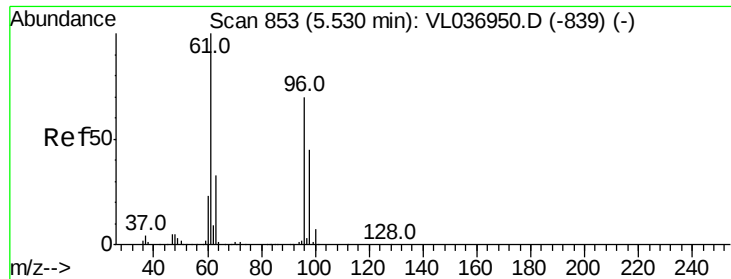
Ion Ratio Lower Upper

84 100

56 118.2 107.9 161.9

41 86.0 65.5 98.3



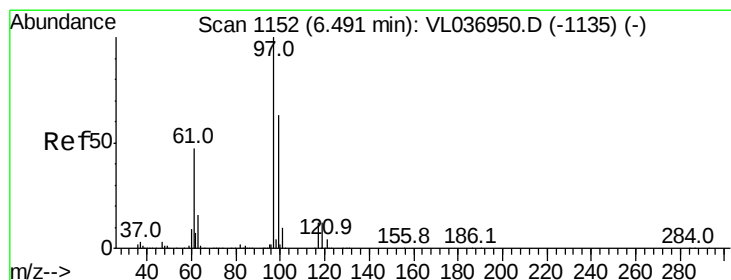
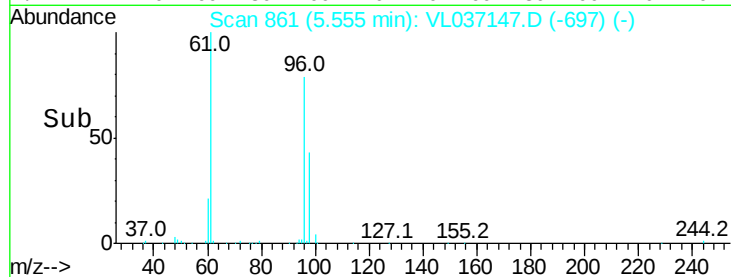
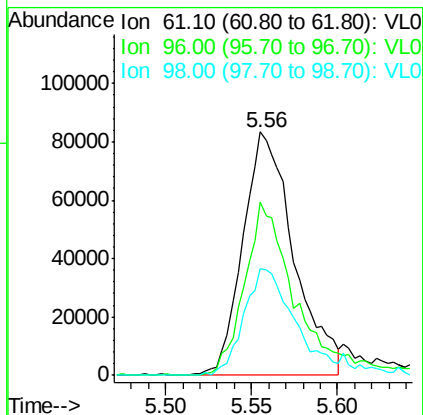
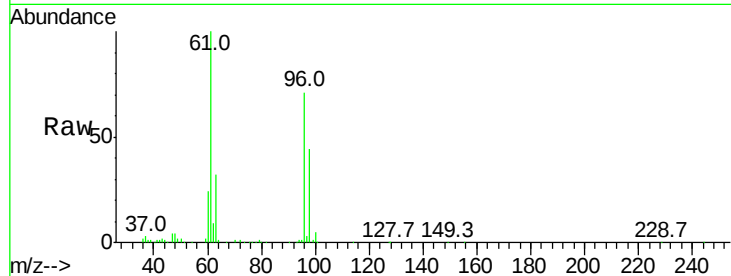


#31

cis-1,2-Dichloroethene
 Concen: 0.948 ppbv
 RT: 5.56 min Scan# 861
 Delta R.T. 0.03 min
 Lab File: VL037147.D
 Acq: 14 Jun 2021 13:38

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

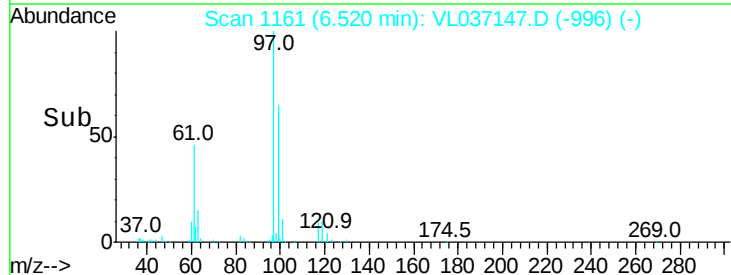
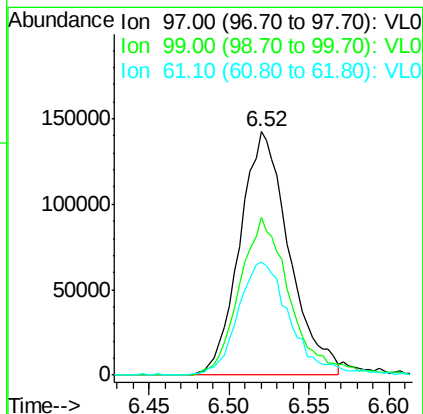
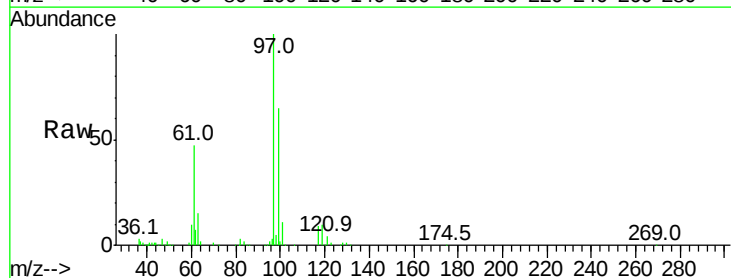
Tgt Ion: 61 Resp: 171201
 Ion Ratio Lower Upper
 61 100
 96 71.3 55.9 83.9
 98 44.0 35.6 53.4

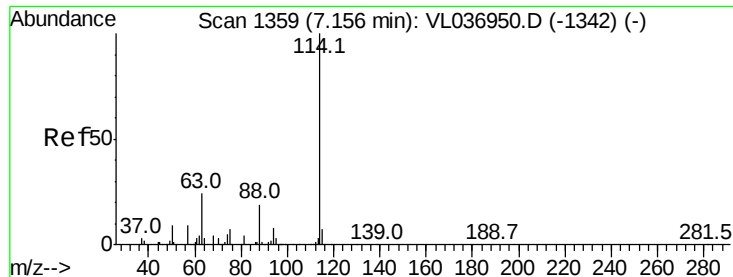


#32

1,1,1-Trichloroethane
 Concen: 0.986 ppbv
 RT: 6.52 min Scan# 1161
 Delta R.T. 0.03 min
 Lab File: VL037147.D
 Acq: 14 Jun 2021 13:38

Tgt Ion: 97 Resp: 301136
 Ion Ratio Lower Upper
 97 100
 99 66.9 51.9 77.9
 61 49.6 37.6 56.4

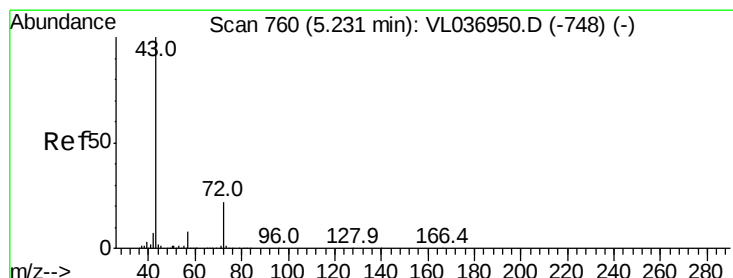
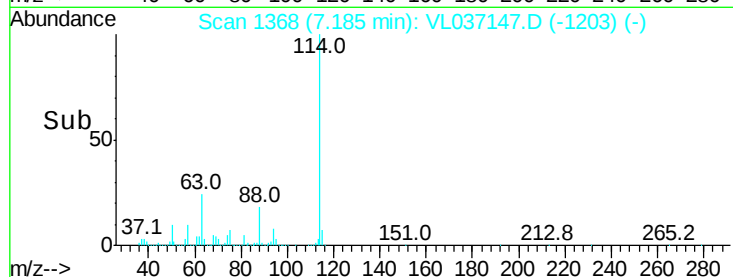
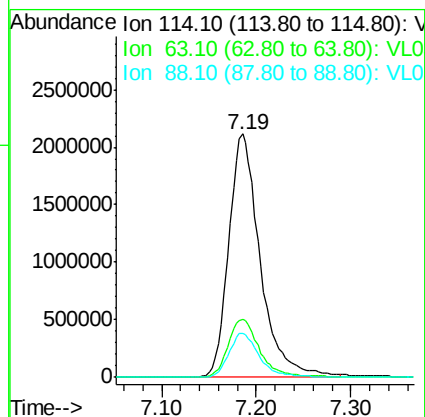
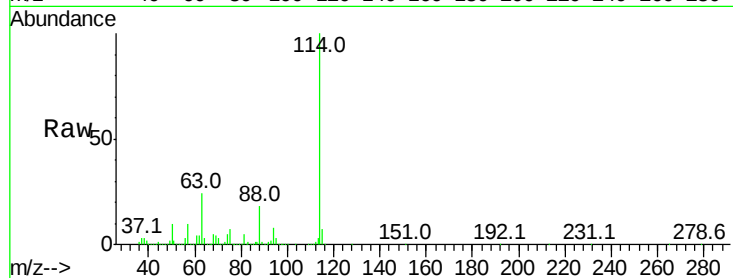




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1368
 Delta R.T. 0.03 min
 Lab File: VL037147.D
 Acq: 14 Jun 2021 13:38

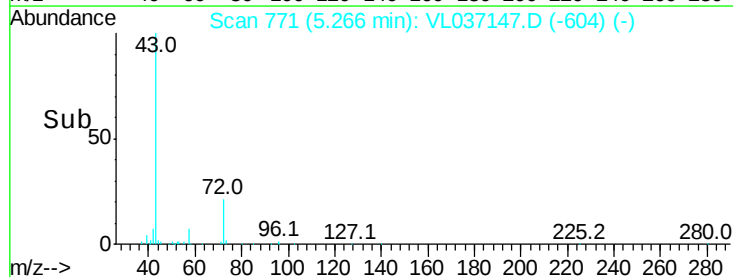
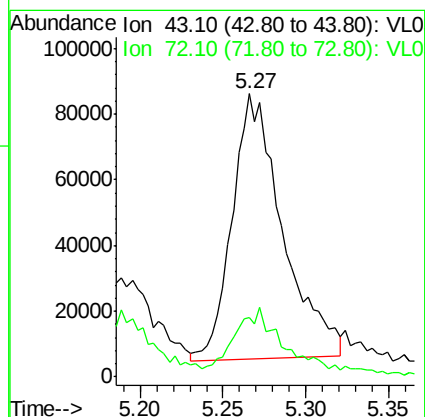
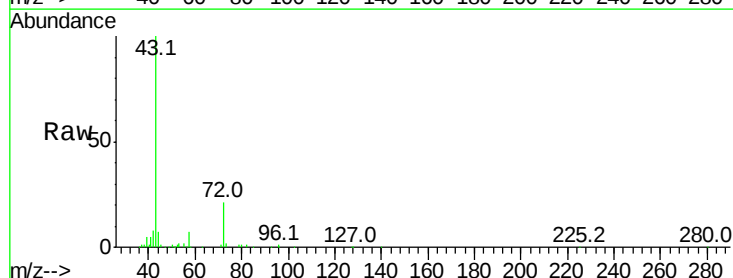
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

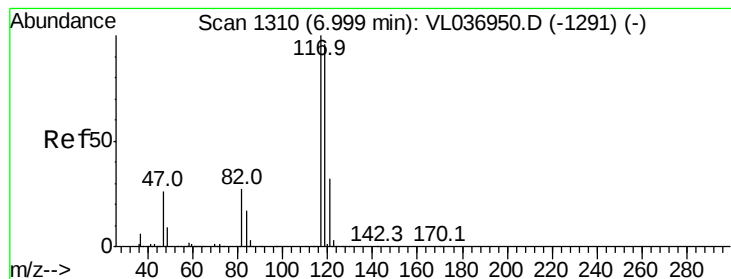
Tgt Ion:114 Resp: 4887264
 Ion Ratio Lower Upper
 114 100
 63 24.2 19.6 29.4
 88 18.0 14.6 21.8



#34
 2-Butanone
 Concen: 0.967 ppbv
 RT: 5.27 min Scan# 771
 Delta R.T. 0.04 min
 Lab File: VL037147.D
 Acq: 14 Jun 2021 13:38

Tgt Ion: 43 Resp: 172131
 Ion Ratio Lower Upper
 43 100
 72 29.9 19.0 28.4#





#35

Carbon Tetrachloride

Concen: 0.967 ppbv

RT: 7.03 min Scan# 1319

Delta R.T. 0.03 min

Lab File: VL037147.D

Acq: 14 Jun 2021 13:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

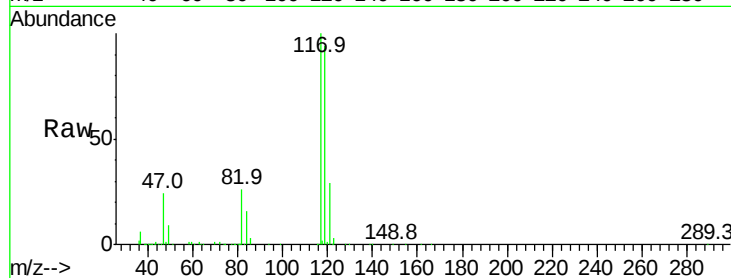
Tgt Ion:117 Resp: 313944

Ion Ratio Lower Upper

117 100

119 94.3 76.6 114.8

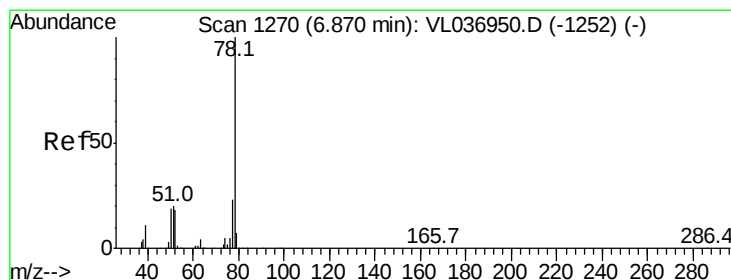
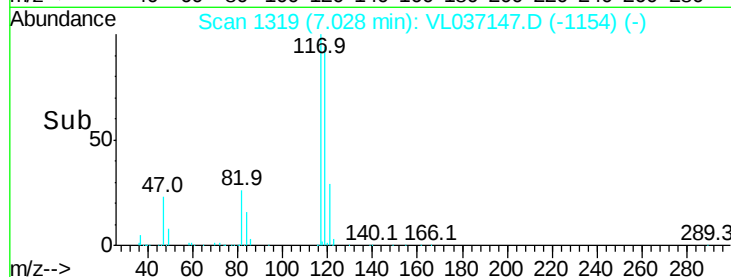
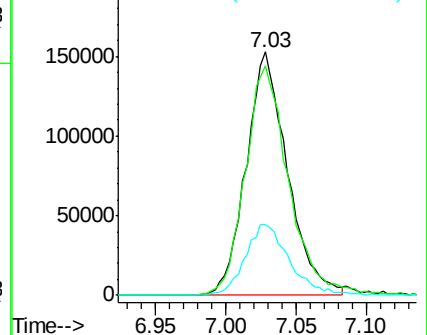
121 29.2 25.8 38.6



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: 0.916 ppbv

RT: 6.90 min Scan# 1280

Delta R.T. 0.03 min

Lab File: VL037147.D

Acq: 14 Jun 2021 13:38

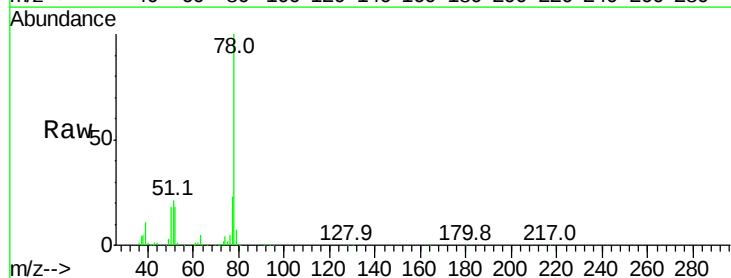
Tgt Ion: 78 Resp: 385634

Ion Ratio Lower Upper

78 100

77 22.4 18.6 28.0

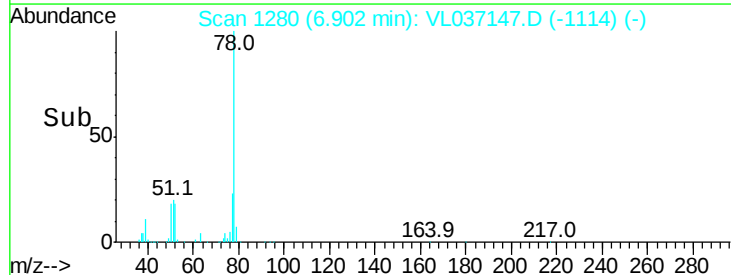
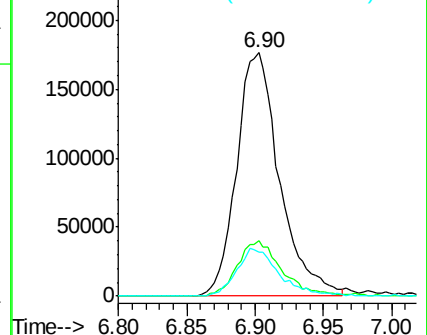
50 17.8 15.0 22.4

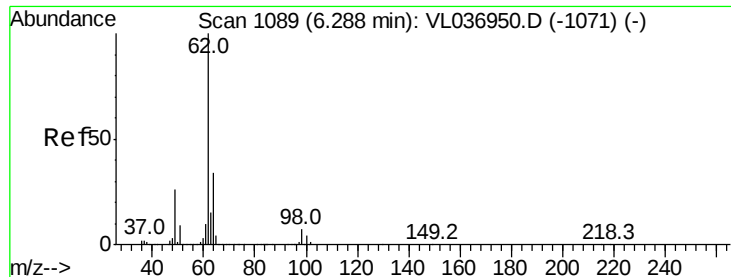


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

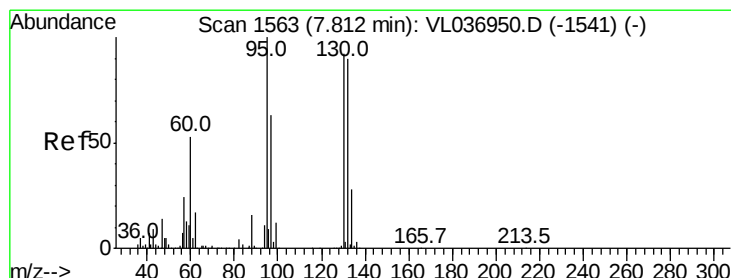
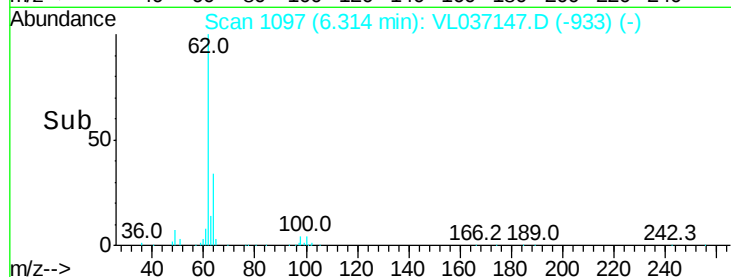
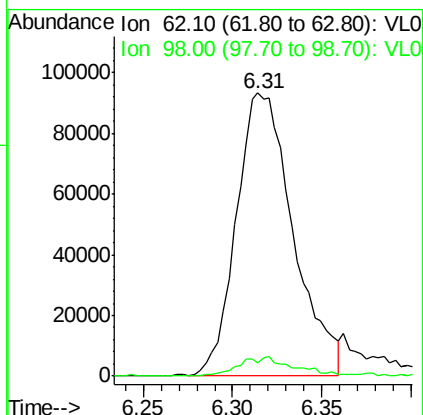
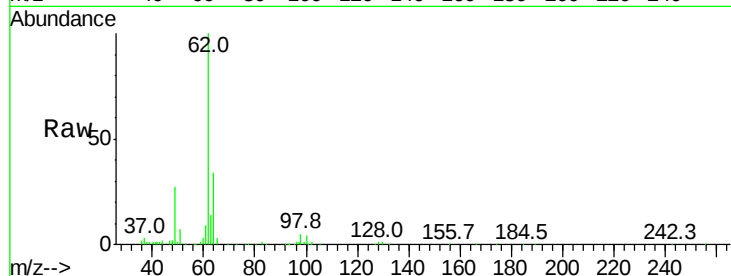




#37
 1,2-Dichloroethane
 Concen: 0.995 ppbv
 RT: 6.31 min Scan# 1097
 Delta R.T. 0.03 min
 Lab File: VL037147.D
 Acq: 14 Jun 2021 13:38

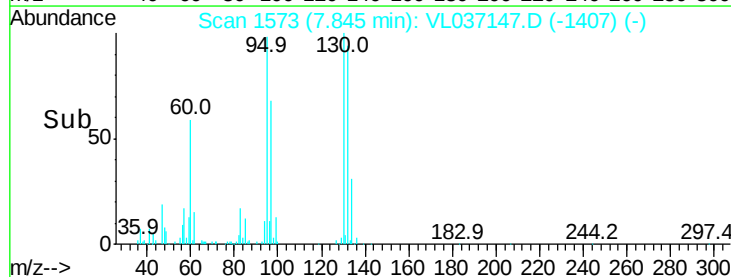
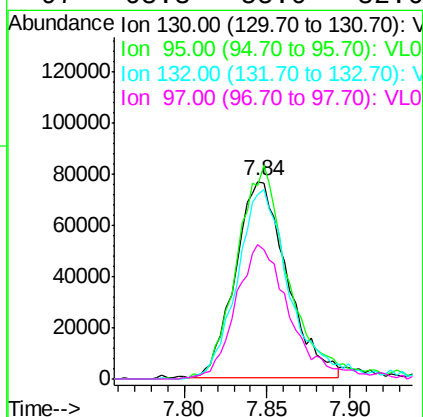
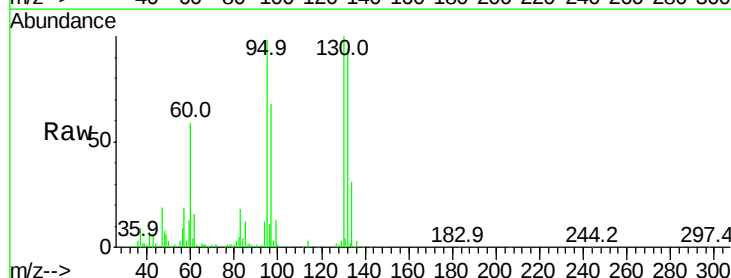
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

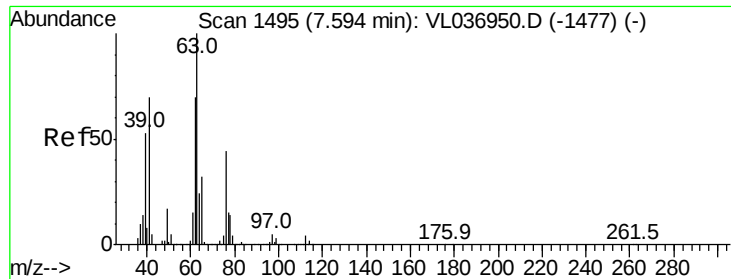
Tgt Ion: 62 Resp: 207717
 Ion Ratio Lower Upper
 62 100
 98 7.4 5.5 8.3



#38
 Trichloroethene
 Concen: 0.918 ppbv
 RT: 7.84 min Scan# 1573
 Delta R.T. 0.03 min
 Lab File: VL037147.D
 Acq: 14 Jun 2021 13:38

Tgt Ion: 130 Resp: 165341
 Ion Ratio Lower Upper
 130 100
 95 98.4 86.9 130.3
 132 94.0 78.4 117.6
 97 68.3 55.0 82.6

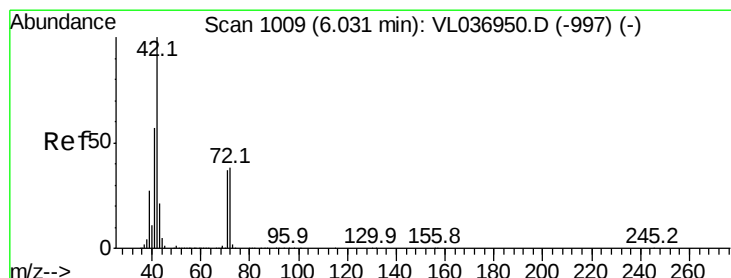
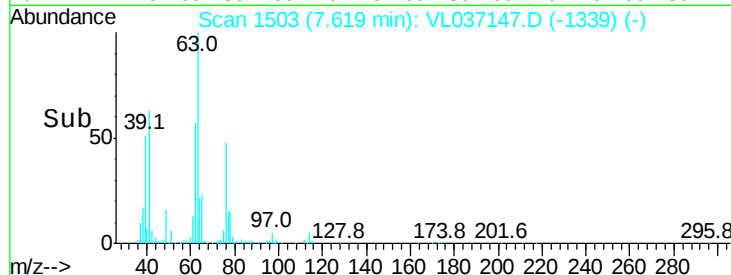
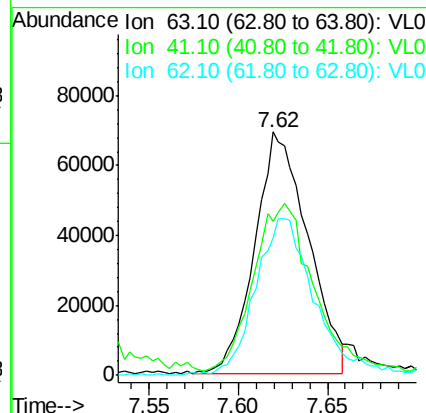
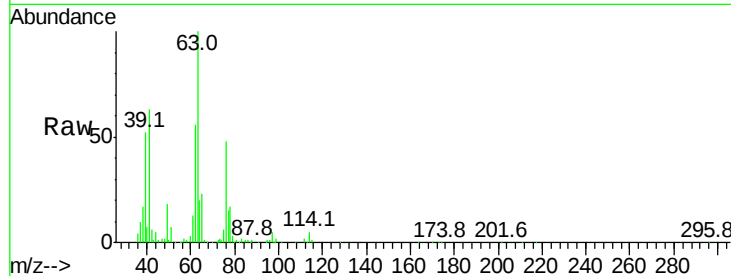




#39
 1,2-Dichloropropane
 Concen: 0.886 ppbv
 RT: 7.62 min Scan# 1503
 Delta R.T. 0.03 min
 Lab File: VL037147.D
 Acq: 14 Jun 2021 13:38

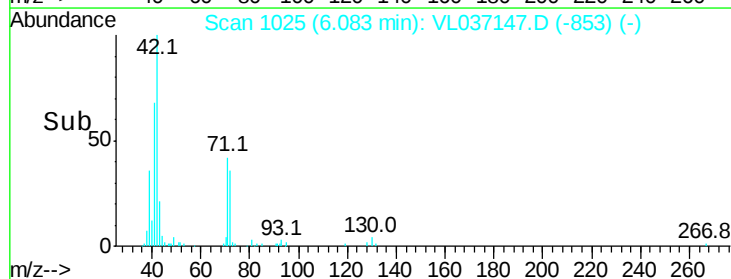
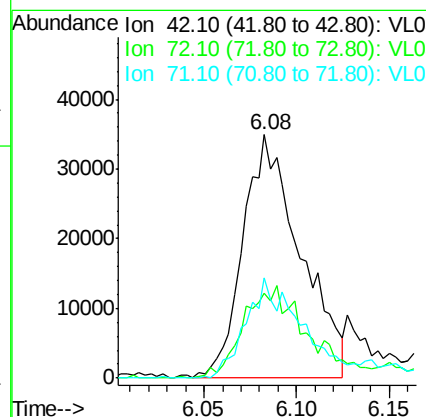
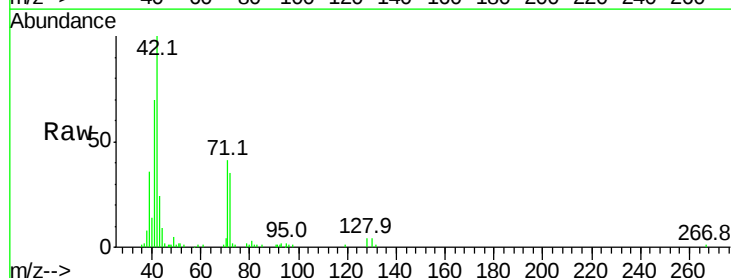
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

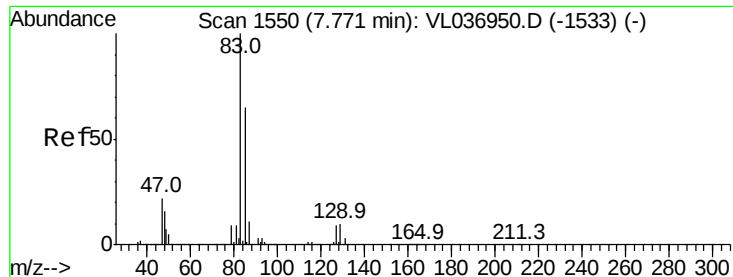
Tgt Ion: 63 Resp: 143674
 Ion Ratio Lower Upper
 63 100
 41 60.9 55.7 83.5
 62 55.7 56.2 84.4#



#41
 Tetrahydrofuran
 Concen: 0.740 ppbv
 RT: 6.08 min Scan# 1025
 Delta R.T. 0.05 min
 Lab File: VL037147.D
 Acq: 14 Jun 2021 13:38

Tgt Ion: 42 Resp: 74964
 Ion Ratio Lower Upper
 42 100
 72 48.0 31.4 47.2#
 71 45.2 30.4 45.6





#42

Bromodichloromethane

Concen: 0.954 ppbv

RT: 7.80 min Scan# 1559

Delta R.T. 0.03 min

Lab File: VL037147.D

Acq: 14 Jun 2021 13:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

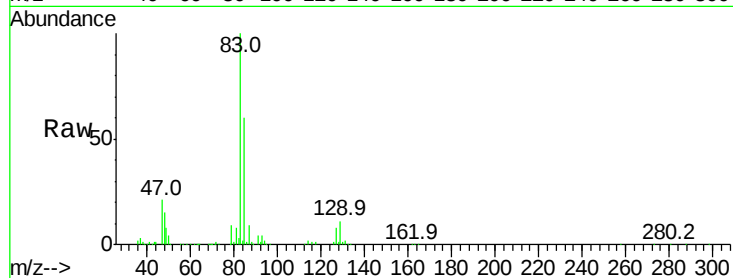
Tgt Ion: 83 Resp: 301278

Ion Ratio Lower Upper

83 100

85 59.3 51.7 77.5

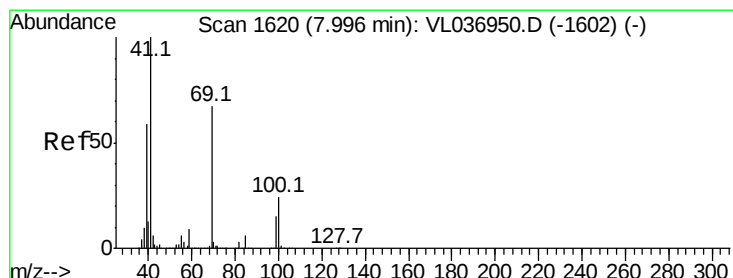
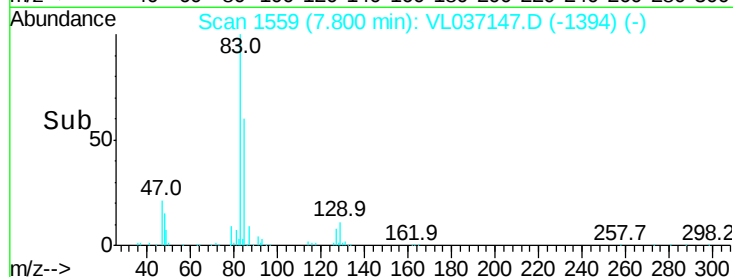
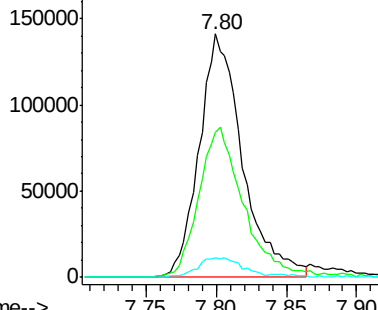
127 8.2 6.9 10.3



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): VL0



#43

Methyl Methacrylate

Concen: 0.718 ppbv

RT: 8.03 min Scan# 1631

Delta R.T. 0.04 min

Lab File: VL037147.D

Acq: 14 Jun 2021 13:38

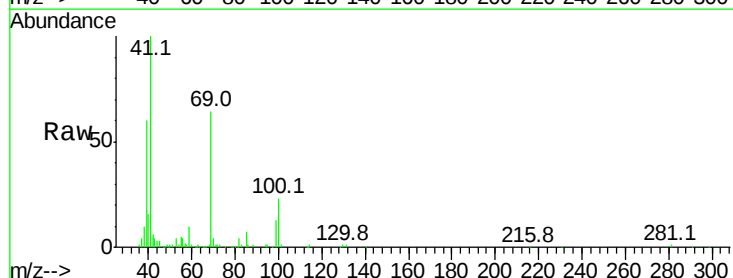
Tgt Ion: 69 Resp: 104162

Ion Ratio Lower Upper

69 100

41 177.3 118.6 178.0

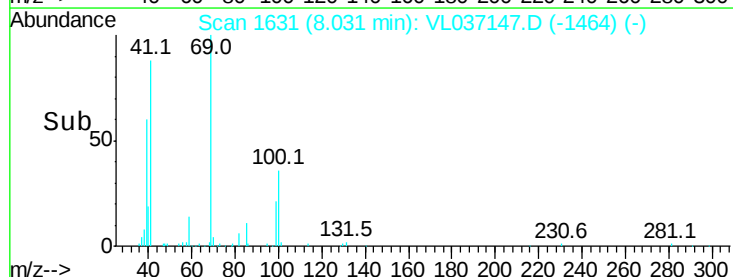
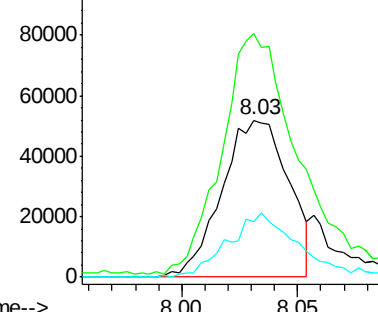
100 43.0 28.2 42.4#

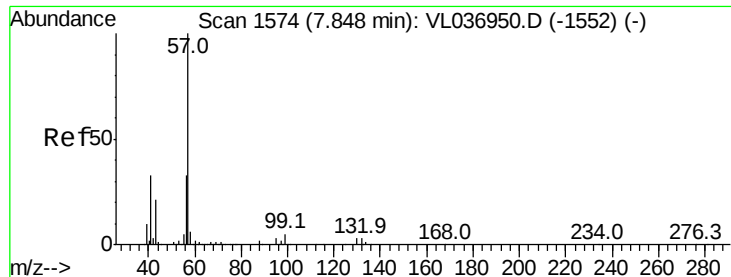


Abundance Ion 69.10 (68.80 to 69.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 100.10 (99.80 to 100.80): VL0

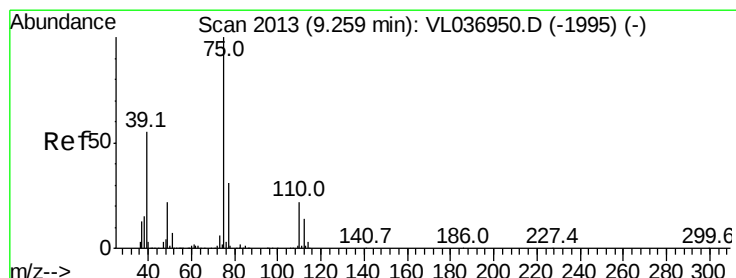
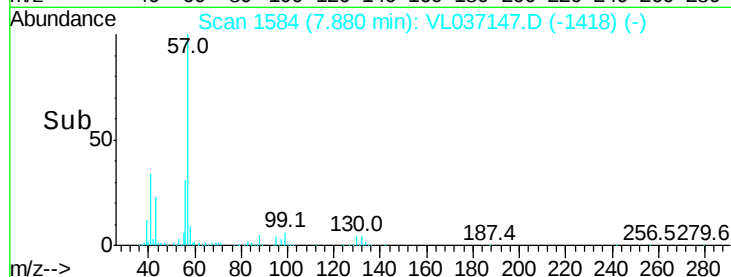
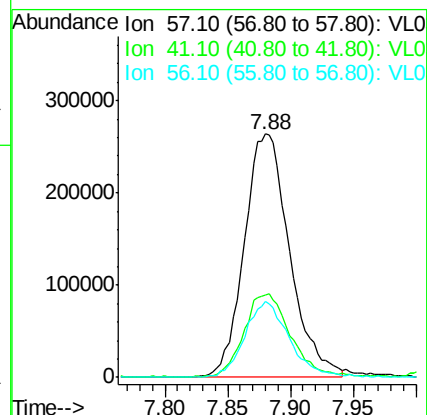
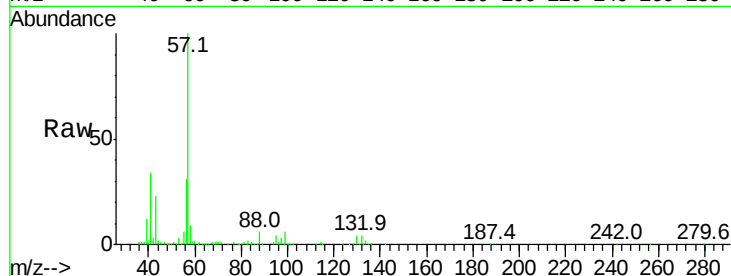




#44
2,2,4-Trimethylpentane
Concen: 0.914 ppbv
RT: 7.88 min Scan# 1584
Delta R.T. 0.03 min
Lab File: VL037147.D
Acq: 14 Jun 2021 13:38

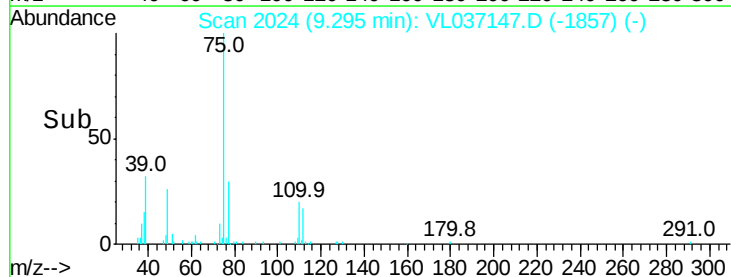
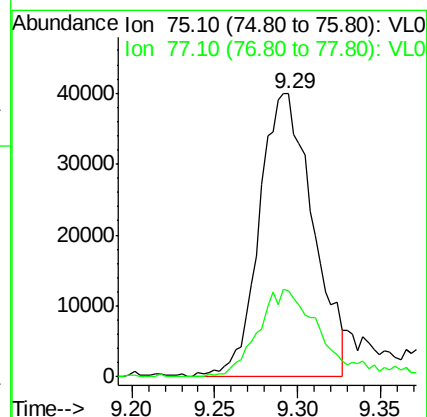
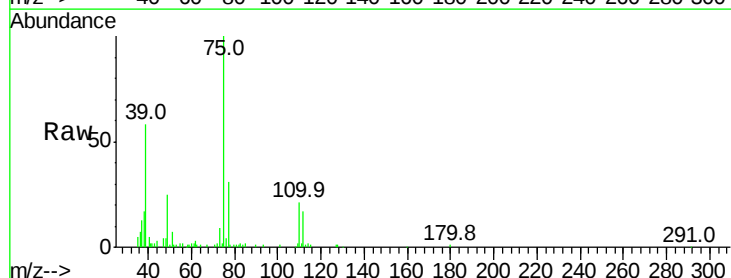
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

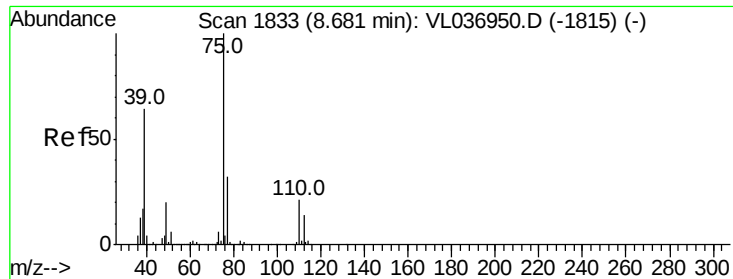
Tgt Ion: 57 Resp: 660309
Ion Ratio Lower Upper
57 100
41 35.6 27.0 40.4
56 31.2 25.4 38.2



#45
t-1,3-Dichloropropene
Concen: 0.810 ppbv
RT: 9.29 min Scan# 2024
Delta R.T. 0.04 min
Lab File: VL037147.D
Acq: 14 Jun 2021 13:38

Tgt Ion: 75 Resp: 89757
Ion Ratio Lower Upper
75 100
77 30.6 24.4 36.6



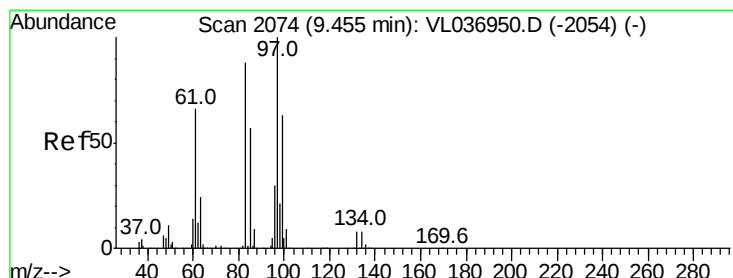
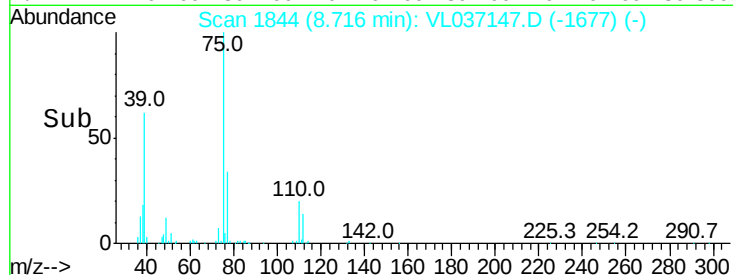
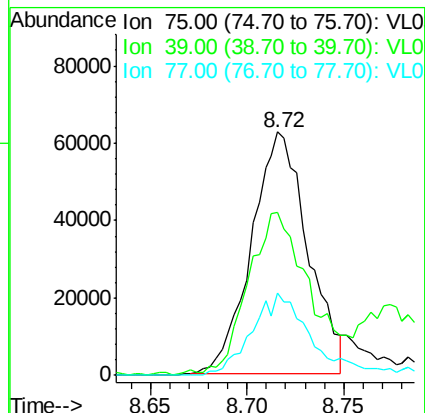
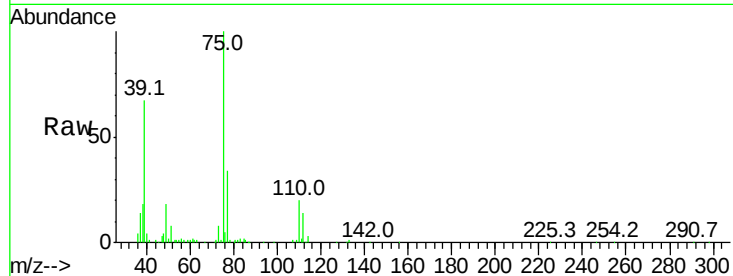


#46

cis-1,3-Dichloropropene
Concen: 0.847 ppbv
RT: 8.72 min Scan# 1844
Delta R.T. 0.04 min
Lab File: VL037147.D
Acq: 14 Jun 2021 13:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

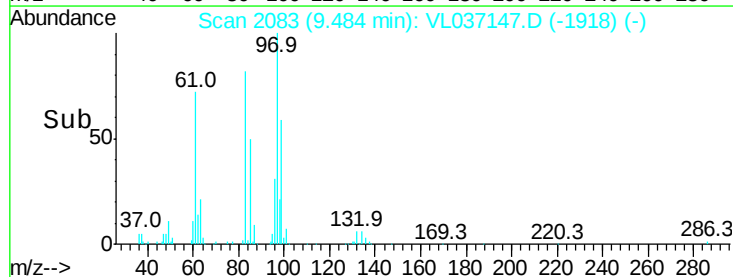
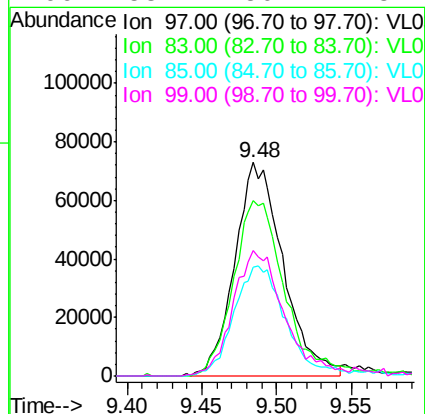
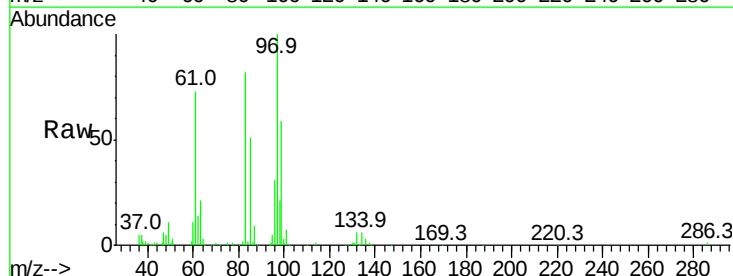
Tgt Ion: 75 Resp: 126279
Ion Ratio Lower Upper
75 100
39 65.2 51.5 77.3
77 34.1 25.9 38.9

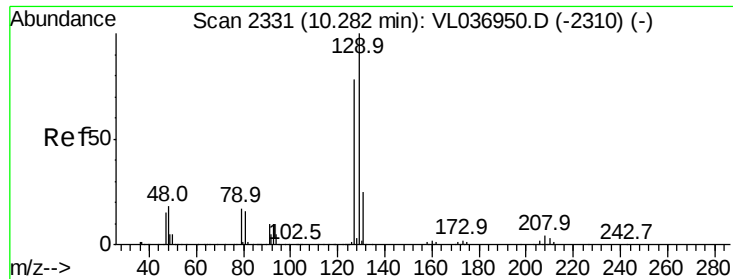


#47

1,1,2-Trichloroethane
Concen: 0.961 ppbv
RT: 9.48 min Scan# 2083
Delta R.T. 0.03 min
Lab File: VL037147.D
Acq: 14 Jun 2021 13:38

Tgt Ion: 97 Resp: 163108
Ion Ratio Lower Upper
97 100
83 82.3 70.4 105.6
85 50.4 45.5 68.3
99 58.2 50.2 75.2





#48

Dibromochloromethane

Concen: 0.888 ppbv

RT: 10.32 min Scan# 2342

Delta R.T. 0.04 min

Lab File: VL037147.D

Acq: 14 Jun 2021 13:38

Instrument :

MSVOA_L

ClientSampleId :

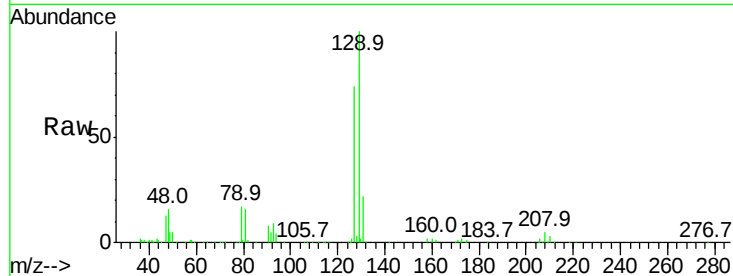
VSTDIC001

Tgt Ion:129 Resp: 243956

Ion Ratio Lower Upper

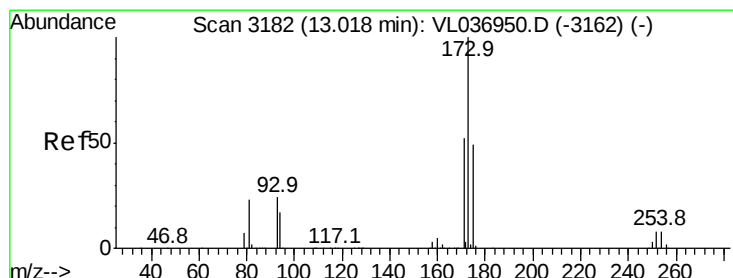
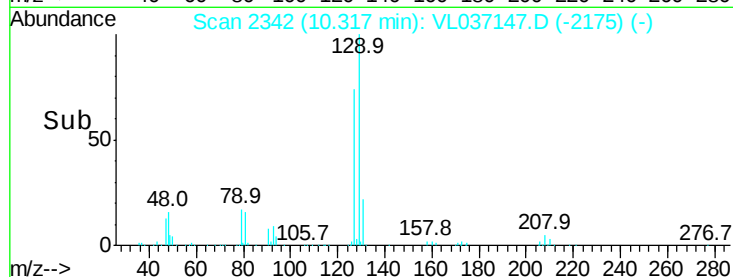
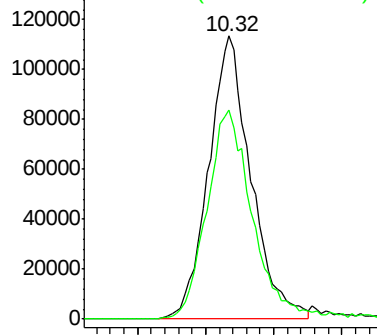
129 100

127 80.6 39.3 117.8



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#49

Bromoform

Concen: 0.316 ppbv

RT: 13.06 min Scan# 3195

Delta R.T. 0.04 min

Lab File: VL037147.D

Acq: 14 Jun 2021 13:38

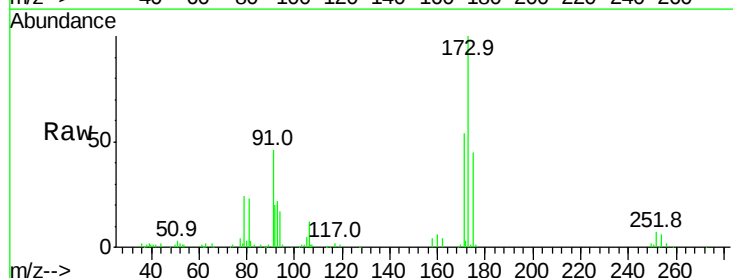
Tgt Ion:173 Resp: 71655

Ion Ratio Lower Upper

173 100

175 0.0 40.4 60.6#

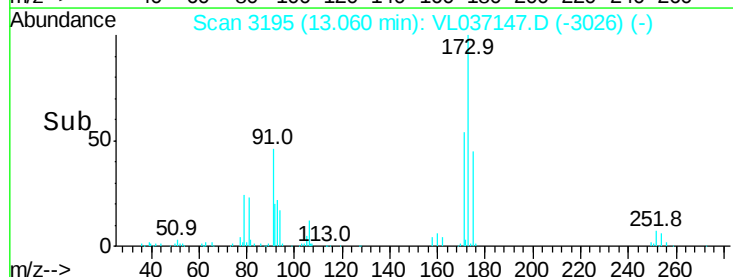
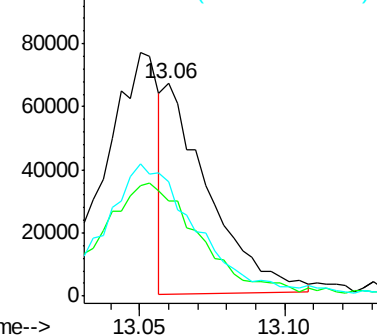
171 0.0 42.6 64.0#

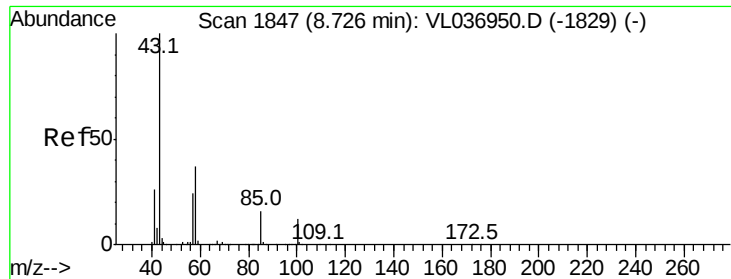


Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V

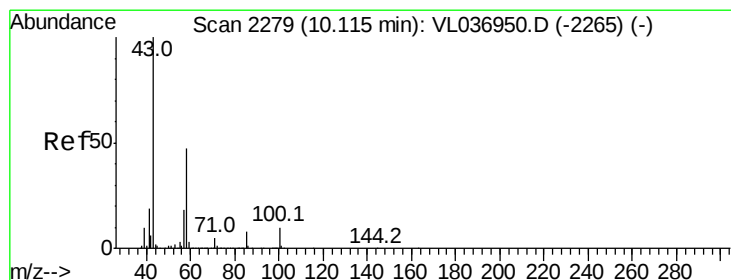
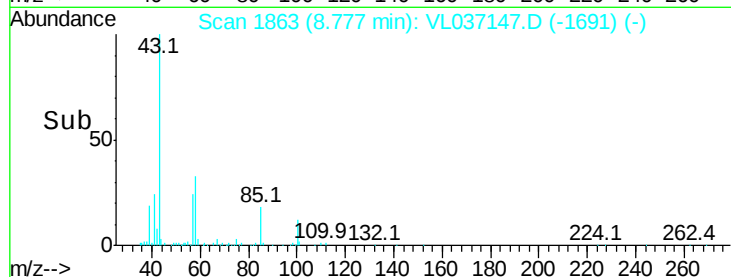
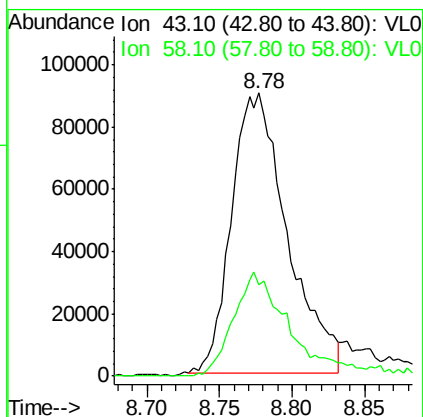
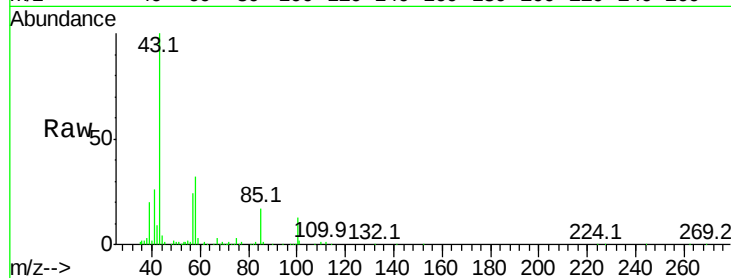




#50
 4-Methyl-2-Pentanone
 Concen: 0.825 ppbv
 RT: 8.78 min Scan# 1863
 Delta R.T. 0.05 min
 Lab File: VL037147.D
 Acq: 14 Jun 2021 13:38

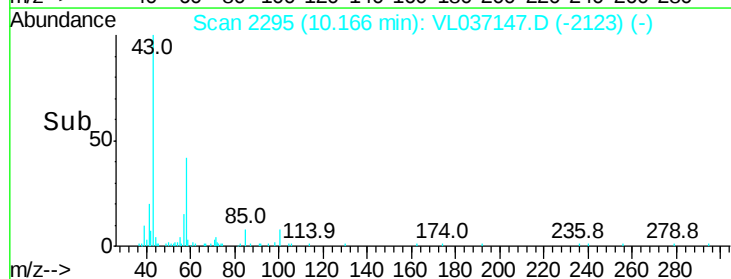
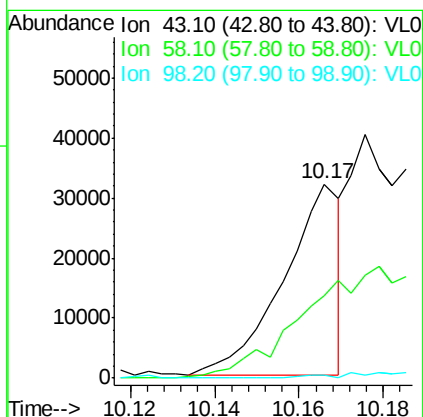
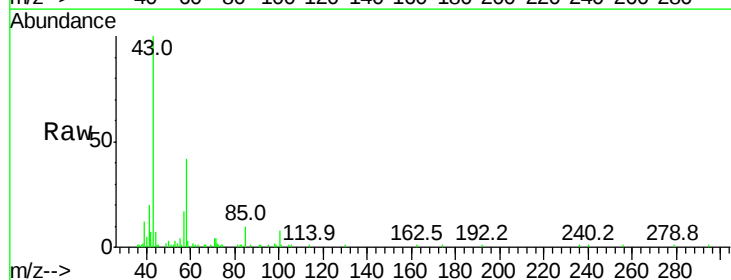
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

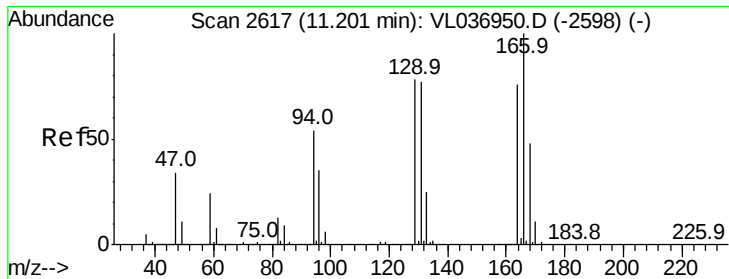
Tgt Ion: 43 Resp: 242191
 Ion Ratio Lower Upper
 43 100
 58 38.9 29.4 44.2



#51
 2-Hexanone
 Concen: 0.194 ppbv
 RT: 10.17 min Scan# 2295
 Delta R.T. 0.05 min
 Lab File: VL037147.D
 Acq: 14 Jun 2021 13:38

Tgt Ion: 43 Resp: 30187
 Ion Ratio Lower Upper
 43 100
 58 0.0 41.1 61.7#
 98 0.0 0.1 0.1#





#52

Tetrachloroethene

Concen: 0.998 ppbv

RT: 11.24 min Scan# 2628

Delta R.T. 0.04 min

Lab File: VL037147.D

Acq: 14 Jun 2021 13:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion:164 Resp: 167115

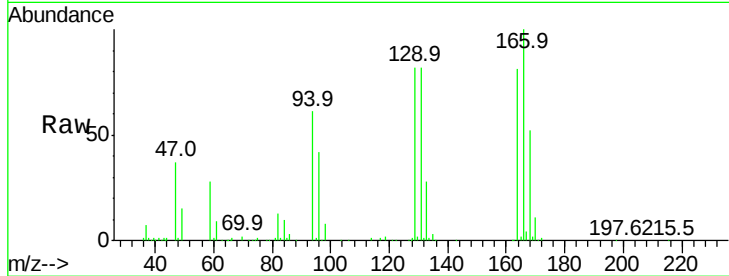
Ion Ratio Lower Upper

164 100

166 122.9 105.5 158.3

129 100.8 81.8 122.8

131 100.7 81.2 121.8

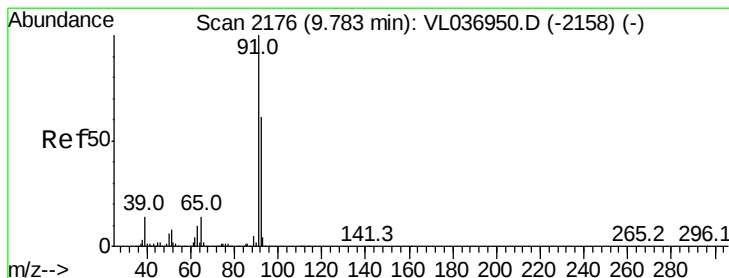
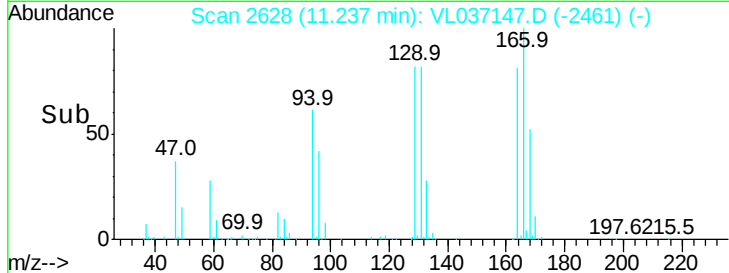
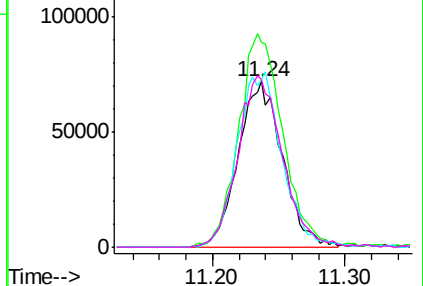


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 0.902 ppbv

RT: 9.82 min Scan# 2187

Delta R.T. 0.04 min

Lab File: VL037147.D

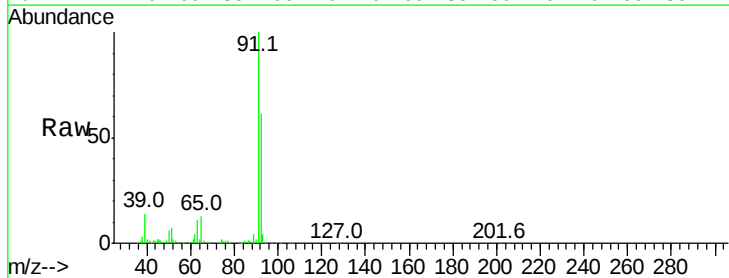
Acq: 14 Jun 2021 13:38

Tgt Ion: 91 Resp: 451761

Ion Ratio Lower Upper

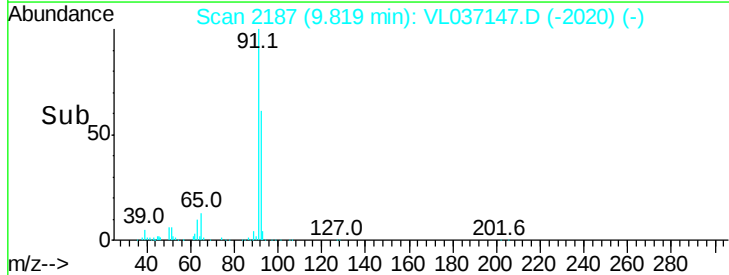
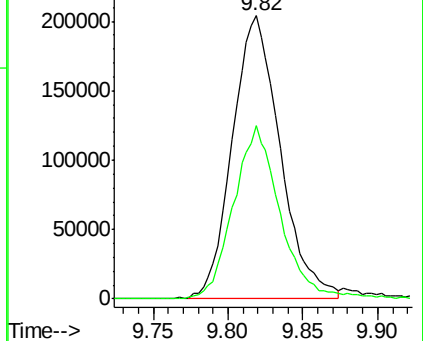
91 100

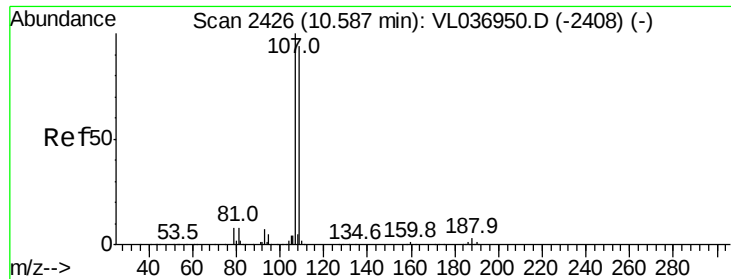
92 60.3 49.5 74.3



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





#54

1,2-Dibromoethane

Concen: 0.331 ppbv

RT: 10.63 min Scan# 2440

Delta R.T. 0.05 min

Lab File: VL037147.D

Acq: 14 Jun 2021 13:38

Instrument :

MSVOA_L

ClientSampleId :

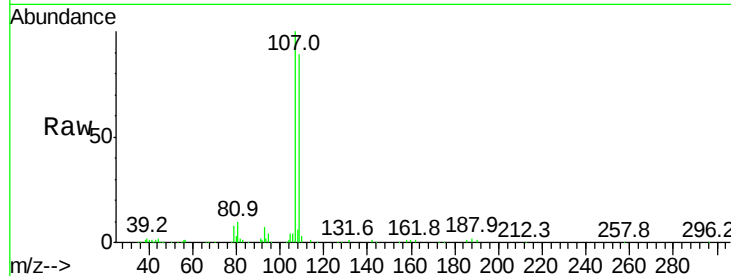
VSTDIC001

Tgt Ion:107 Resp: 79840

Ion Ratio Lower Upper

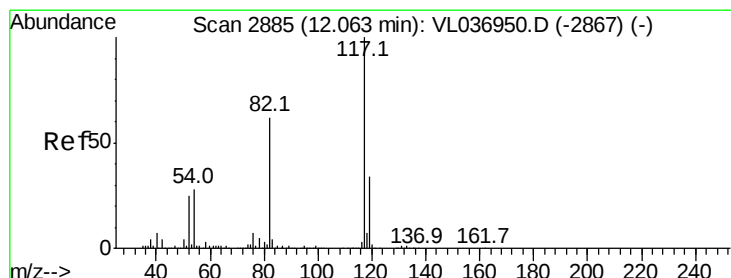
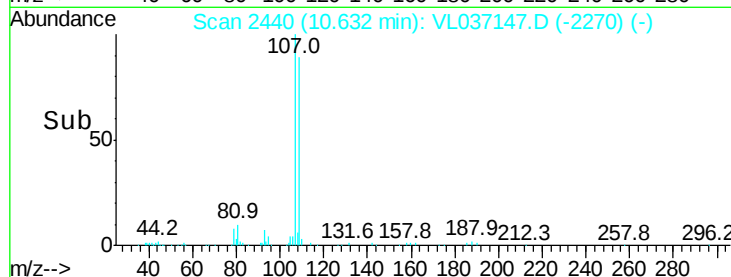
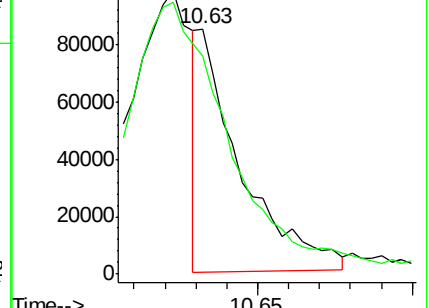
107 100

109 85.9 75.0 112.4



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2896

Delta R.T. 0.04 min

Lab File: VL037147.D

Acq: 14 Jun 2021 13:38

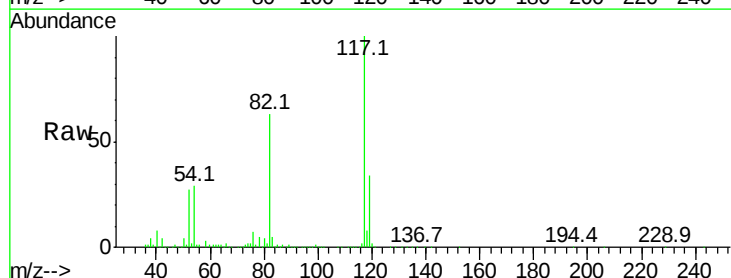
Tgt Ion:117 Resp: 4516936

Ion Ratio Lower Upper

117 100

82 61.4 52.6 79.0

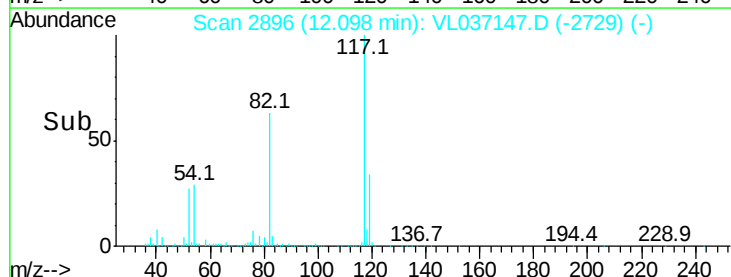
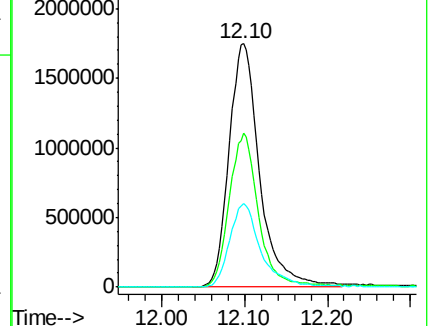
119 35.1 46.6 70.0#

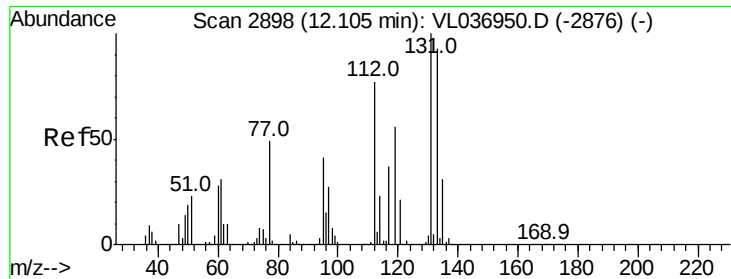


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V

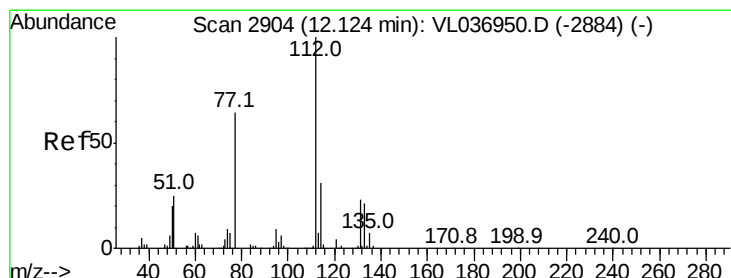
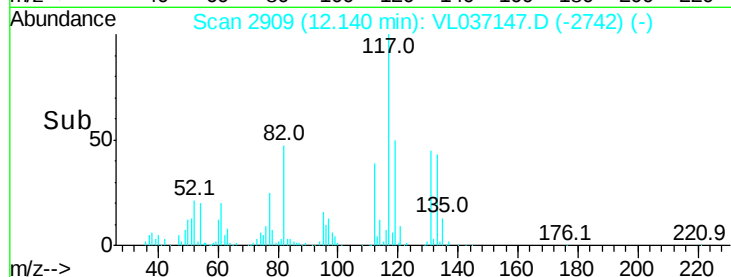
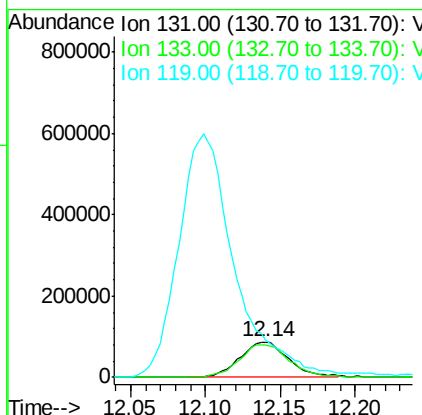
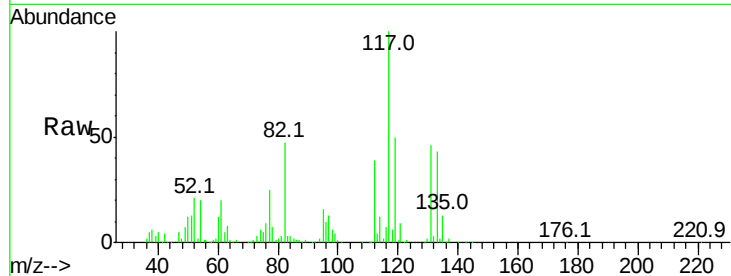




#56
 1,1,1,2-Tetrachloroethane
 Concen: 1.032 ppbv
 RT: 12.14 min Scan# 2909
 Delta R.T. 0.04 min
 Lab File: VL037147.D
 Acq: 14 Jun 2021 13:38

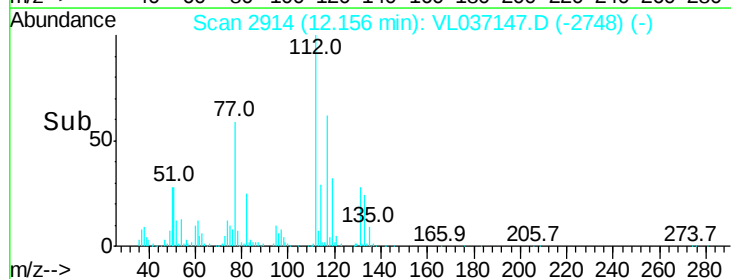
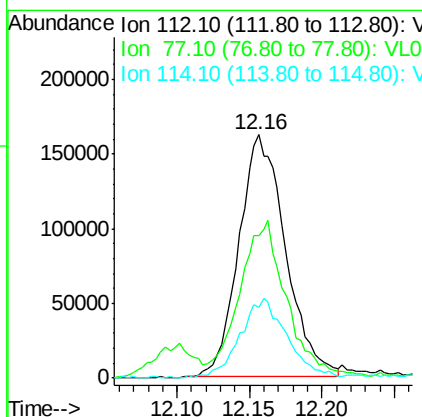
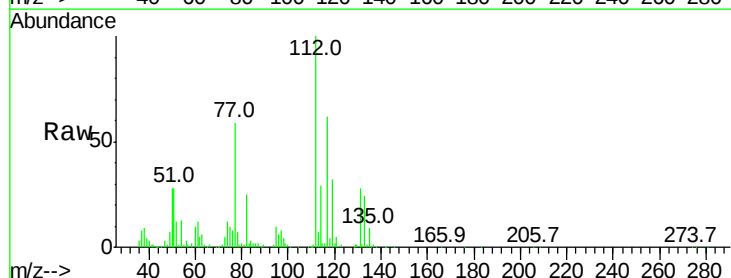
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

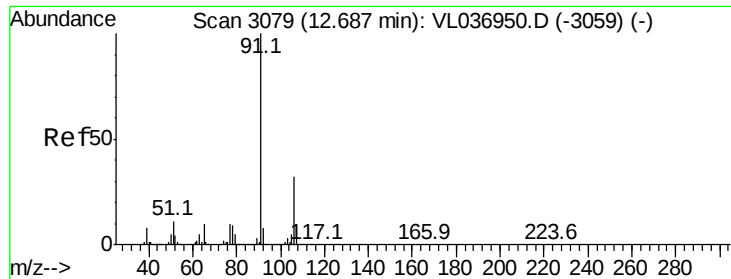
Tgt Ion:131 Resp: 196200
 Ion Ratio Lower Upper
 131 100
 133 97.8 76.9 115.3
 119 807.4 120.2 180.4#



#57
 Chlorobenzene
 Concen: 1.035 ppbv
 RT: 12.16 min Scan# 2914
 Delta R.T. 0.03 min
 Lab File: VL037147.D
 Acq: 14 Jun 2021 13:38

Tgt Ion:112 Resp: 362577
 Ion Ratio Lower Upper
 112 100
 77 56.0 51.0 76.6
 114 28.7 28.3 34.5





#58

Ethyl Benzene

Concen: 0.562 ppbv

RT: 12.72 min Scan# 3090

Delta R.T. 0.04 min

Lab File: VL037147.D

Acq: 14 Jun 2021 13:38

Instrument :

MSVOA_L

ClientSampleId :

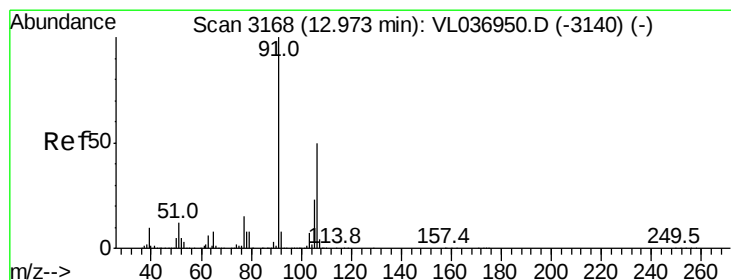
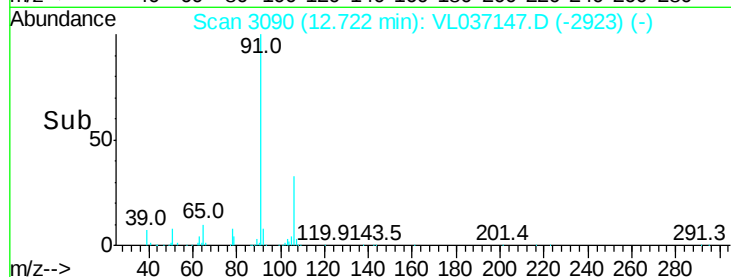
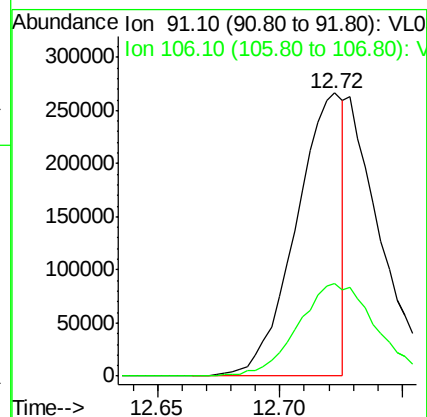
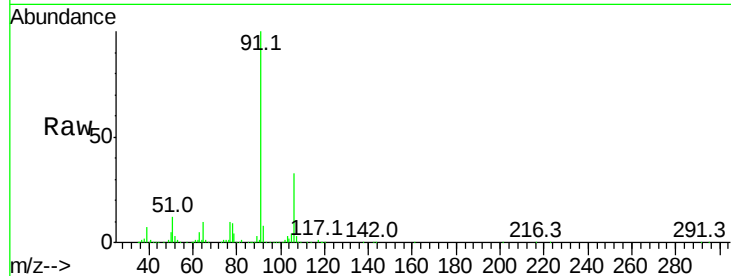
VSTDIC001

Tgt Ion: 91 Resp: 358009

Ion Ratio Lower Upper

91 100

106 32.9 25.6 38.4



#59

m/p-Xylene

Concen: 0.954 ppbv

RT: 13.01 min Scan# 3178

Delta R.T. 0.03 min

Lab File: VL037147.D

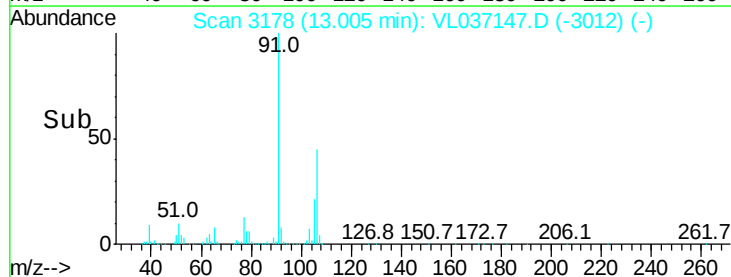
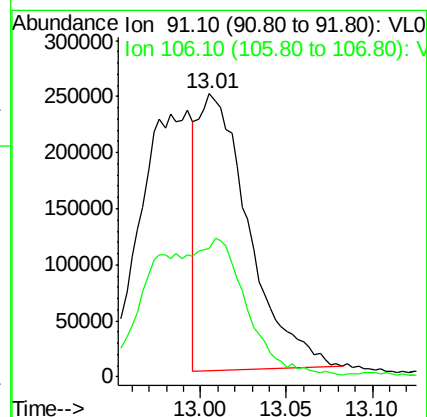
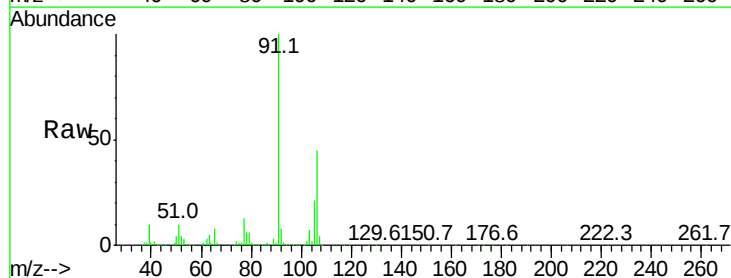
Acq: 14 Jun 2021 13:38

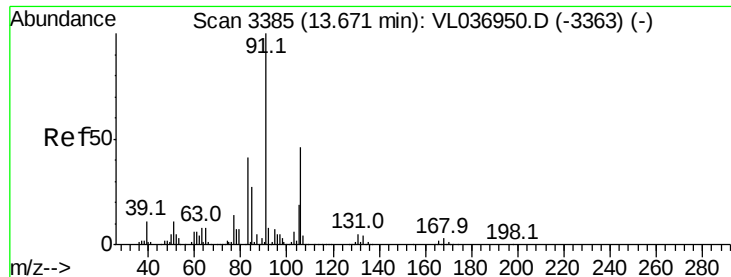
Tgt Ion: 91 Resp: 502905

Ion Ratio Lower Upper

91 100

106 96.0 37.4 56.2#





#60

o-Xylene

Concen: 1.007 ppbv

RT: 13.70 min Scan# 3395

Delta R.T. 0.03 min

Lab File: VL037147.D

Acq: 14 Jun 2021 13:38

Instrument :

MSVOA_L

ClientSampleId :

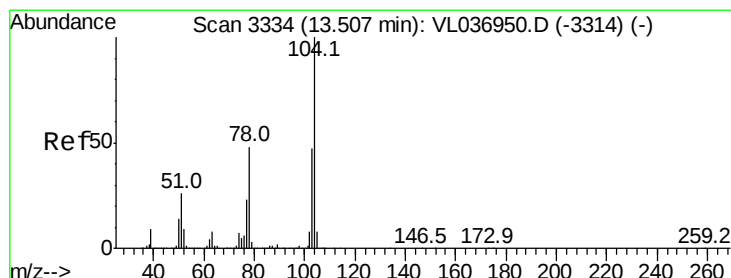
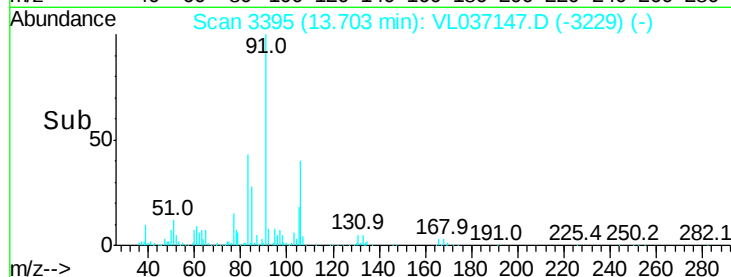
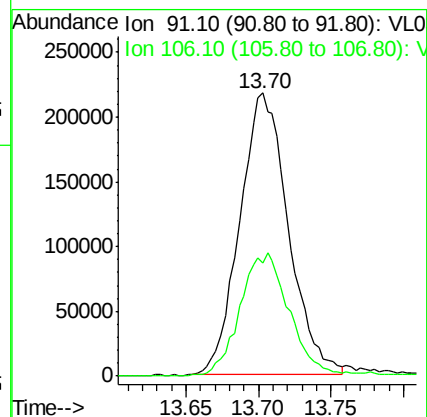
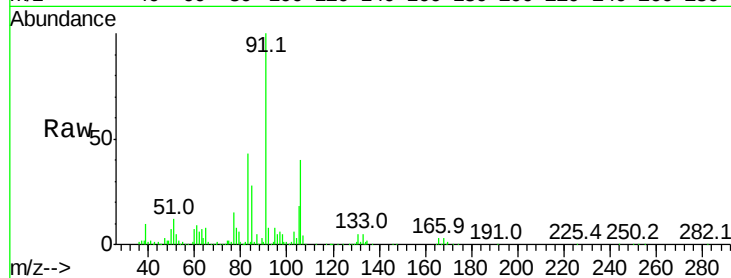
VSTDIC001

Tgt Ion: 91 Resp: 505948

Ion Ratio Lower Upper

91 100

106 45.0 23.4 70.3



#61

Styrene

Concen: 0.886 ppbv

RT: 13.54 min Scan# 3345

Delta R.T. 0.04 min

Lab File: VL037147.D

Acq: 14 Jun 2021 13:38

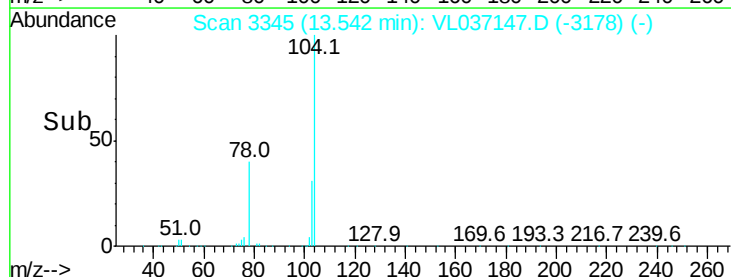
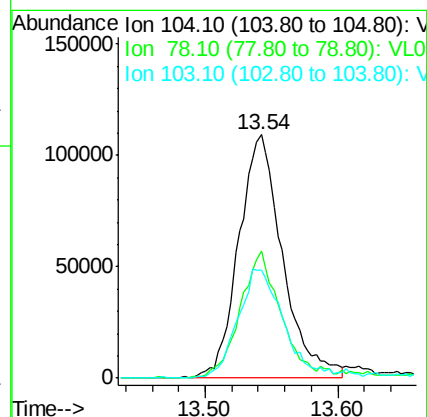
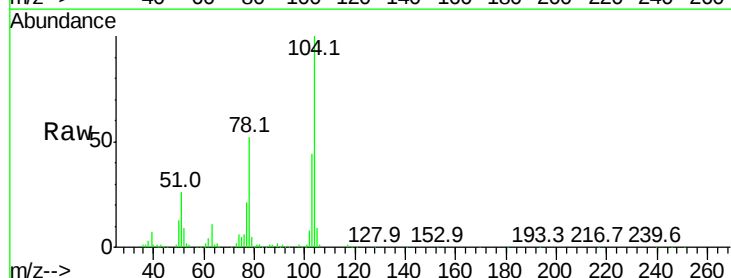
Tgt Ion: 104 Resp: 250919

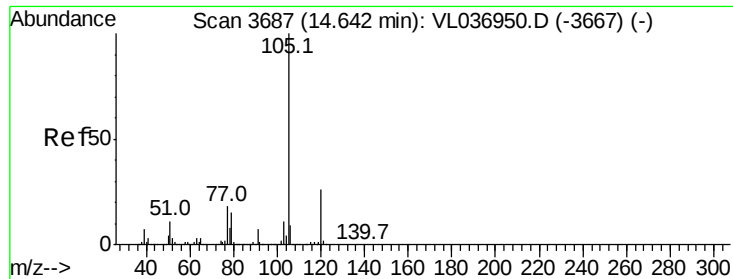
Ion Ratio Lower Upper

104 100

78 51.2 39.0 58.6

103 48.7 38.0 57.0





#62

Isopropylbenzene

Concen: 1.027 ppbv

RT: 14.68 min Scan# 3699

Delta R.T. 0.04 min

Lab File: VL037147.D

Acq: 14 Jun 2021 13:38

Instrument :

MSVOA_L

ClientSampleId :

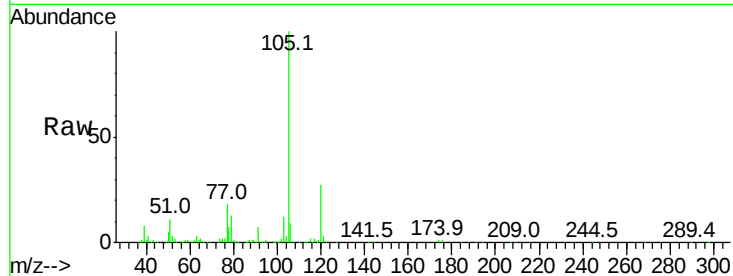
VSTDIC001

Tgt Ion:105 Resp: 741870

Ion Ratio Lower Upper

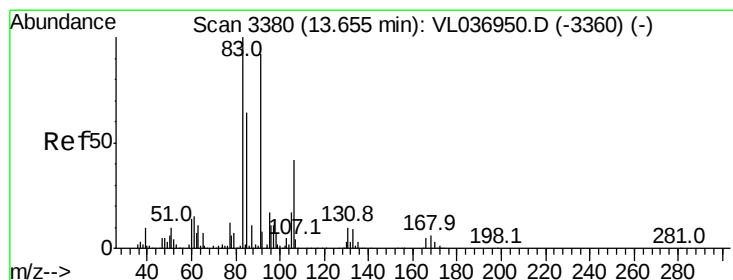
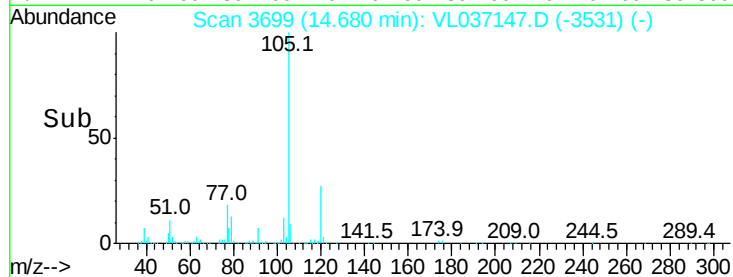
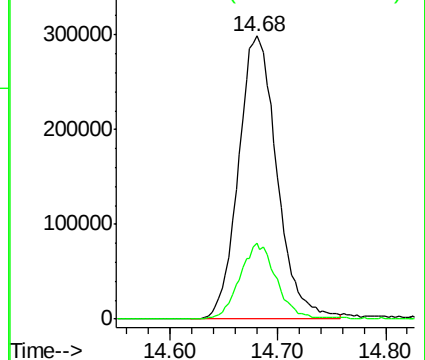
105 100

120 26.0 21.7 32.5



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#63

1,1,2,2-Tetrachloroethane

Concen: 0.902 ppbv

RT: 13.69 min Scan# 3391

Delta R.T. 0.04 min

Lab File: VL037147.D

Acq: 14 Jun 2021 13:38

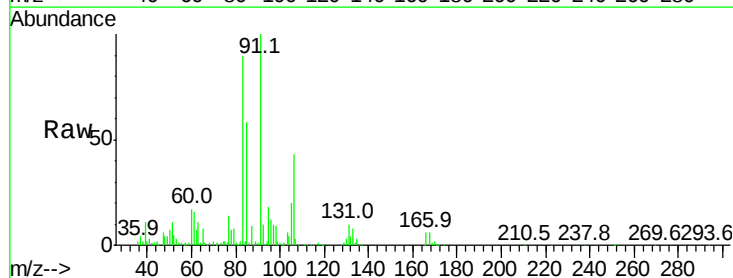
Tgt Ion: 83 Resp: 338401

Ion Ratio Lower Upper

83 100

131 11.3 5.0 15.0

85 68.3 32.9 98.6



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0

