

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051821\
 Data File : VL036951.D
 Acq On : 18 May 2021 2:39
 Operator : SY/AP
 Sample : VSTDIC002
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Quant Time: May 18 07:07:45 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 07:06:50 2021
 QLast Update : Tue May 18 07:06:50 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1387365	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	4004705	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.06	117	3959546	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	2914201	9.44	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	476358	2.013	ppbv	97
3) Chlorodifluoromethane	2.98	51	541618	1.986	ppbv	99
4) Chloromethane	3.13	50	186940	2.099	ppbv	98
5) Vinyl Chloride	3.25	62	187783	1.934	ppbv	97
6) Bromomethane	3.46	94	99976	2.041	ppbv	99
7) Chloroethane	3.55	64	68015	2.176	ppbv	94
8) Dichlorotetrafluoroethane	3.18	85	470494	2.108	ppbv	98
9) Propene	3.00	41	188431	2.424	ppbv	94
10) Heptane	8.10	43	480913	2.599	ppbv	98
11) Trichlorofluoromethane	3.93	101	454128	2.132	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.47	101	326417	2.268	ppbv	96
13) Ethanol	3.61	45	17029	1.154	ppbv #	57
14) Bromoethene	3.73	108	141644	2.453	ppbv	96
15) Acetone	3.84	43	264914	2.033	ppbv #	71
16) 1,3-Butadiene	3.31	39	183587	2.178	ppbv	97
17) tert-Butyl alcohol	4.29	59	113997	0.947	ppbv #	58
18) 1,1-Dichloroethene	4.28	96	153730	2.599	ppbv	95
19) Isopropyl Alcohol	3.97	45	124355	1.675	ppbv #	21
20) Methylene Chloride	4.33	84	168232	1.581	ppbv	96
21) Allyl Chloride	4.39	41	217231	2.265	ppbv	97
22) trans-1,2-Dichloroethene	4.87	96	130220	2.147	ppbv	95
23) Vinyl Acetate	5.06	43	492961	2.660	ppbv	98
24) 1,1-Dichloroethane	4.99	63	335752	2.385	ppbv	99
25) Ethyl Acetate	5.66	43	706951	2.196	ppbv	99
26) Hexane	5.67	57	380450	2.301	ppbv	97
27) Carbon Disulfide	4.54	76	367611	2.511	ppbv	94
28) Methyl tert-Butyl Ether	5.02	73	456160	2.856	ppbv	99
29) Chloroform	5.73	83	527383	2.126	ppbv	100
30) Cyclohexane	7.11	84	319008	2.523	ppbv	88
31) cis-1,2-Dichloroethene	5.53	61	328575	2.537	ppbv	97
32) 1,1,1-Trichloroethane	6.49	97	536873	2.030	ppbv	99
34) 2-Butanone	5.23	43	320109	2.090	ppbv	92
35) Carbon Tetrachloride	7.00	117	545149	1.742	ppbv	99
36) Benzene	6.87	78	746488	2.320	ppbv	96
37) 1,2-Dichloroethane	6.28	62	364532	1.910	ppbv	99
38) Trichloroethene	7.81	130	295810	2.242	ppbv	98
39) 1,2-Dichloropropane	7.59	63	284233	2.157	ppbv	98
40) 1,4-Dioxane	7.82	88	5571	0.162	ppbv #	100
41) Tetrahydrofuran	6.05	42	156597	2.504	ppbv	91
42) Bromodichloromethane	7.77	83	567821	2.021	ppbv	99
43) Methyl Methacrylate	8.00	69	256899	2.744	ppbv	99

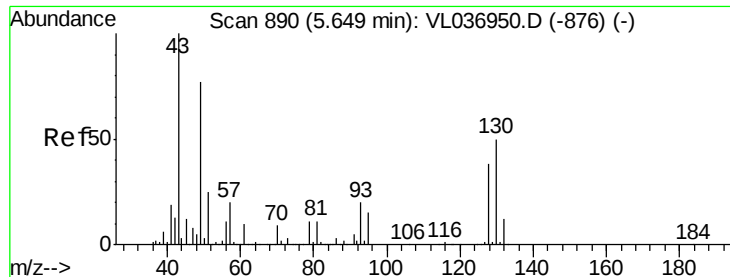
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051821\
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Quant Time: May 18 07:07:45 2021
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue May 18 07:06:50 2021
 QLast Update : Tue May 18 07:06:50 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.85	57	1295076	2.265	ppbv	98
45) t-1,3-Dichloropropene	9.26	75	189865	2.246	ppbv	94
46) cis-1,3-Dichloropropene	8.68	75	265510	2.243	ppbv	92
47) 1,1,2-Trichloroethane	9.45	97	300838	2.081	ppbv	94
48) Dibromochloromethane	10.28	129	491188	2.259	ppbv	97
49) Bromoform	13.01	173	422351	2.360	ppbv	99
50) 4-Methyl-2-Pentanone	8.73	43	527434	2.516	ppbv	98
51) 2-Hexanone	10.13	43	259516	2.906	ppbv	92
52) Tetrachloroethene	11.20	164	290478	2.457	ppbv	94
53) Toluene	9.78	91	890278	2.774	ppbv	99
54) 1,2-Dibromoethane	10.58	107	427701	2.266	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.10	131	357195	1.962	ppbv #	1
57) Chlorobenzene	12.12	112	661068	1.978	ppbv	99
58) Ethyl Benzene	12.69	91	1192133	2.533	ppbv	100
59) m/p-Xylene	12.98	91	955921	2.161	ppbv #	27
60) o-Xylene	13.67	91	941802	2.201	ppbv	100
61) Styrene	13.50	104	534138	3.040	ppbv	99
62) Isopropylbenzene	14.64	105	1373297	2.354	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.65	83	637626	1.577	ppbv	100
64) n-propylbenzene	15.54	120	353489	2.448	ppbv	86
65) tert-Butylbenzene	16.72	119	1263130	2.441	ppbv	99
66) Benzyl Chloride	16.97	91	22594	0.480	ppbv #	56
67) sec-Butylbenzene	17.27	105	1711856	2.342	ppbv	99
69) p-Isopropyltoluene	17.63	119	1482637	2.665	ppbv	99
70) n-Butylbenzene	18.53	91	1394455	2.501	ppbv	98
71) 2-Chlorotoluene	15.43	91	980657	2.351	ppbv	99
72) 4-Ethyltoluene	15.81	105	1120181	2.527	ppbv	98
73) 1,3,5-Trimethylbenzene	15.98	105	1052132	2.429	ppbv	95
74) 1,2,4-Trimethylbenzene	16.74	105	1130269	2.377	ppbv	97
75) 1,3-Dichlorobenzene	16.97	146	663066	2.151	ppbv	98
76) 1,4-Dichlorobenzene	17.11	146	610436	2.216	ppbv	96
77) 1,2-Dichlorobenzene	17.79	146	346150	1.240	ppbv #	32
78) Hexachloro-1,3-Butadiene	23.35	225	536298	2.151	ppbv	99
79) Naphthalene	22.17	128	848579	3.950	ppbv	99
80) Naphthalene, 2-methyl-	24.96	142	134590	4.275	ppbv	93
81) 1,2,4-Trichlorobenzene	21.90	180	517718	3.368	ppbv	98

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. -0.00 min

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MSVOA_L

ClientSampleId :

VSTDIC002

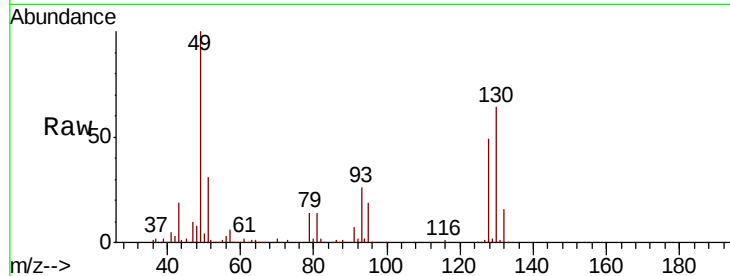
Tot Ion: 49 Resp: 1387365

Ion Ratio Lower Upper

49 100

128 54.0 26.9 80.7

130 69.2 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

800000

600000

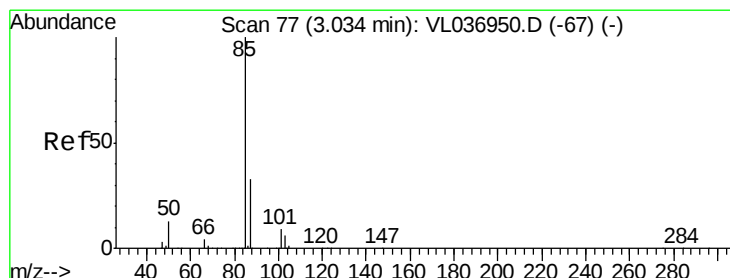
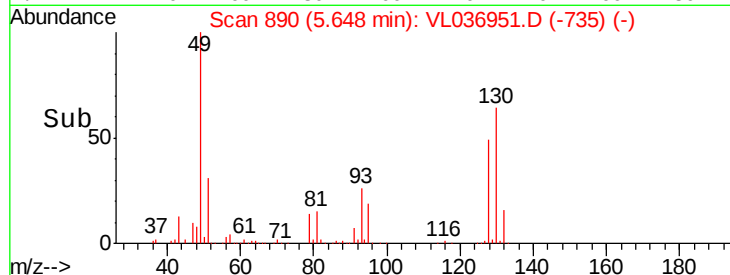
400000

200000

0

5.55 5.60 5.65 5.70 5.75

Time-->



#2

Dichlorodifluoromethane

Concen: 2.013 ppbv

RT: 3.04 min Scan# 78

Delta R.T. 0.00 min

Lab File: VL036951.D

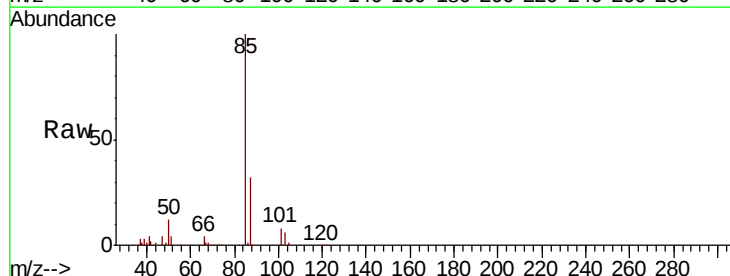
Acq: 18 May 2021 2:39

Tgt Ion: 85 Resp: 476358

Ion Ratio Lower Upper

85 100

87 31.5 26.6 39.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

300000

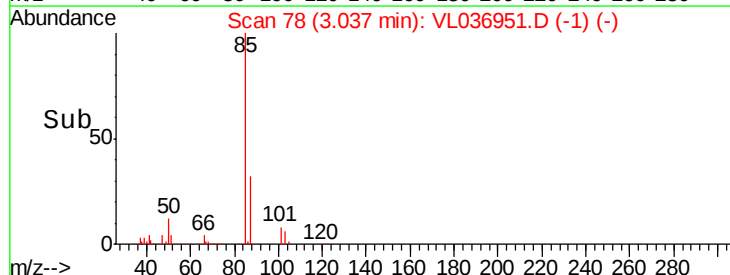
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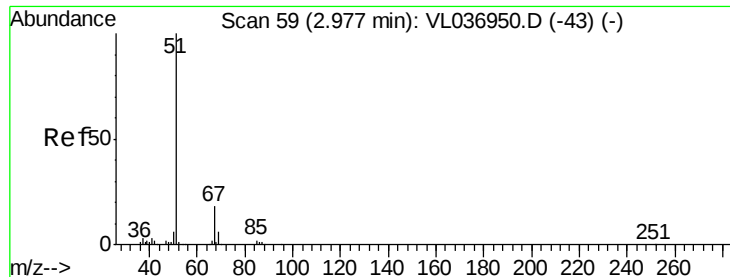
100000

0

2.95 3.00 3.05 3.10

Time-->





#3

Chlorodifluoromethane

Concen: 1.986 ppbv

RT: 2.98 min Scan# 59

Delta R.T. -0.00 min

Lab File: VL036951.D

Acq: 18 May 2021 2:39

Instrument :

MSVOA_L

ClientSampleId :

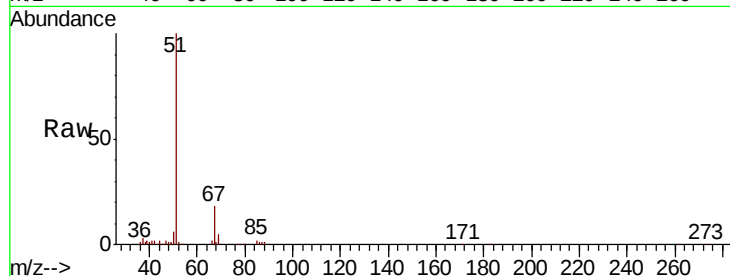
VSTDIC002

Tot Ion: 51 Resp: 541618

Ion Ratio Lower Upper

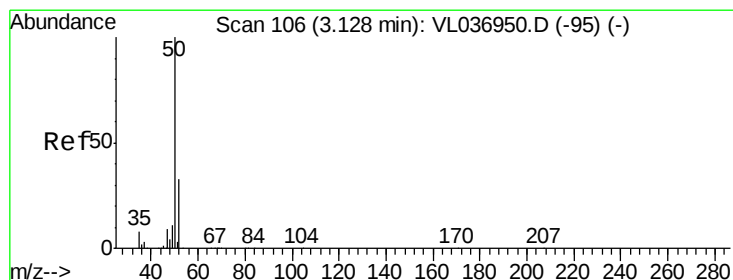
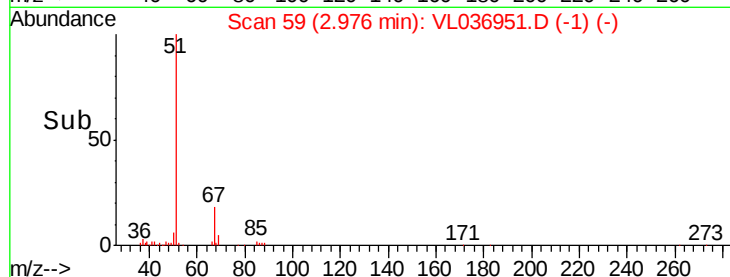
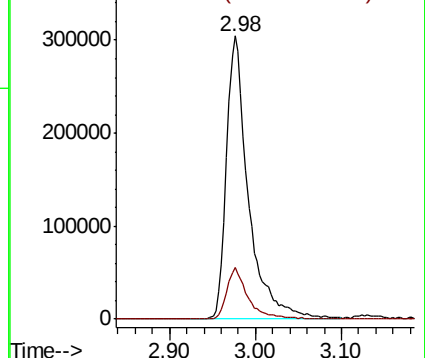
51 100

67 17.8 14.6 21.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 2.099 ppbv

RT: 3.13 min Scan# 107

Delta R.T. 0.00 min

Lab File: VL036951.D

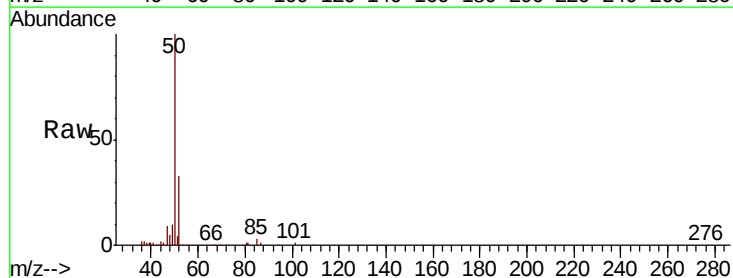
Acq: 18 May 2021 2:39

Tgt Ion: 50 Resp: 186940

Ion Ratio Lower Upper

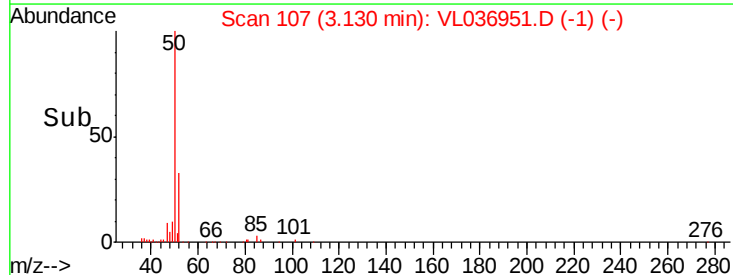
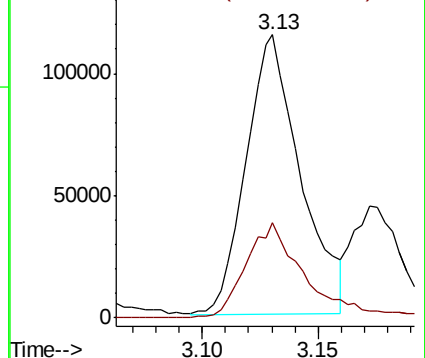
50 100

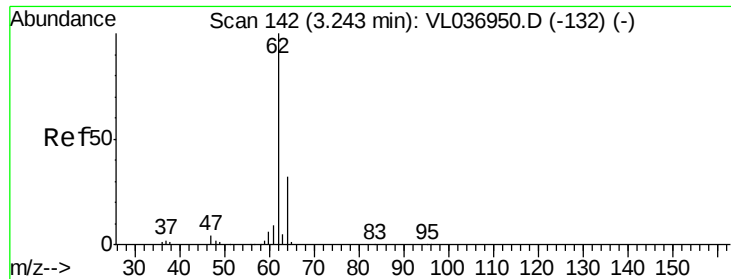
52 34.0 26.1 39.1



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 1.934 ppbv

RT: 3.25 min Scan# 143

Delta R.T. 0.00 min

Lab File: VL036951.D

Acq: 18 May 2021 2:39

Instrument :

MSVOA_L

ClientSampleId :

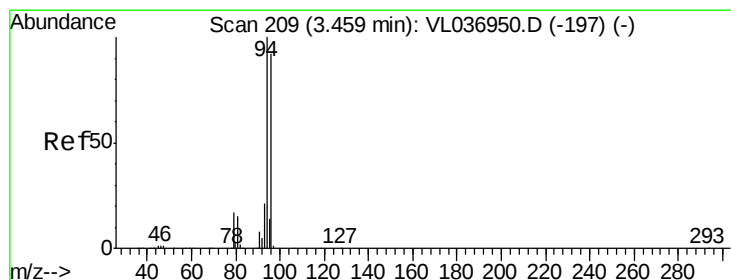
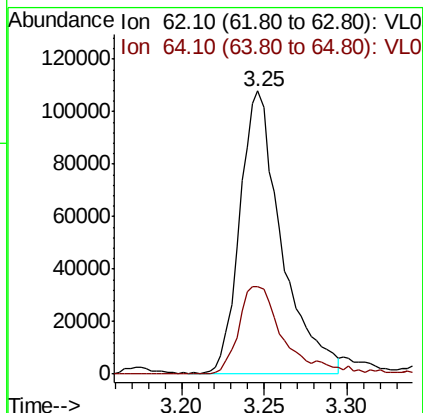
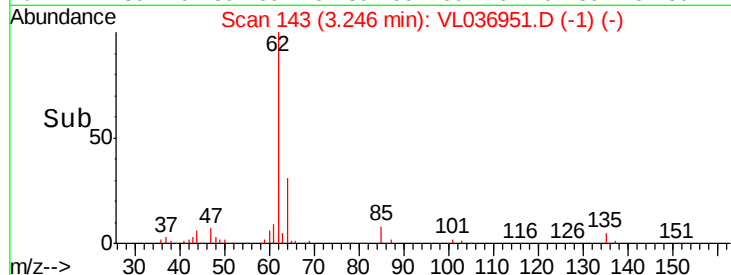
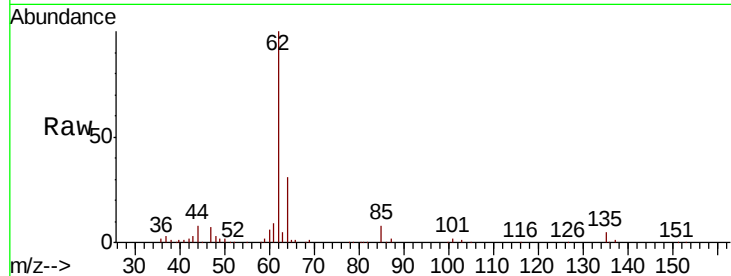
VSTDIC002

Tot Ion: 62 Resp: 187783

Ion Ratio Lower Upper

62 100

64 31.0 25.9 38.9



#6

Bromomethane

Concen: 2.041 ppbv

RT: 3.46 min Scan# 210

Delta R.T. 0.00 min

Lab File: VL036951.D

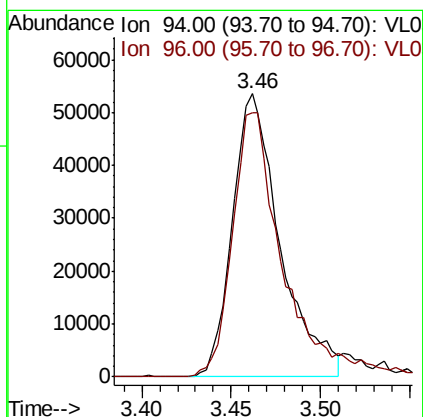
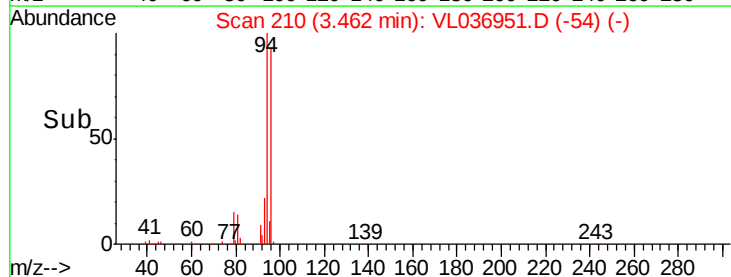
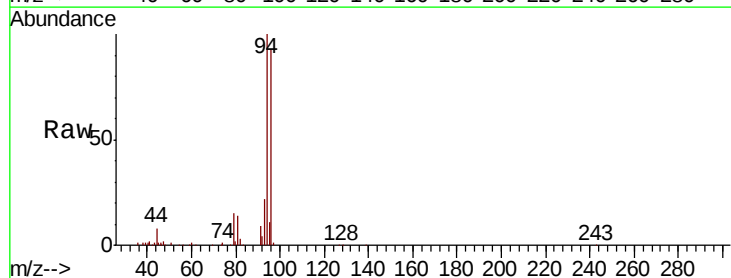
Acq: 18 May 2021 2:39

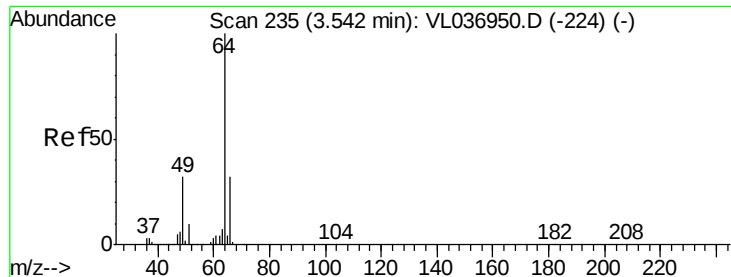
Tgt Ion: 94 Resp: 99976

Ion Ratio Lower Upper

94 100

96 93.3 74.0 111.0





#7

Chloroethane

Concen: 2.176 ppbv

RT: 3.55 min Scan# 237

Delta R.T. 0.01 min

Lab File: VL036951.D

Acq: 18 May 2021 2:39

Instrument :

MSVOA_L

ClientSampleId :

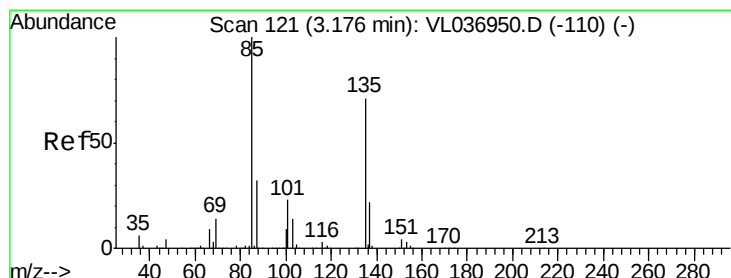
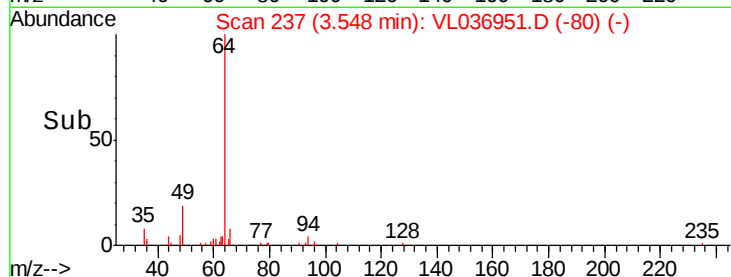
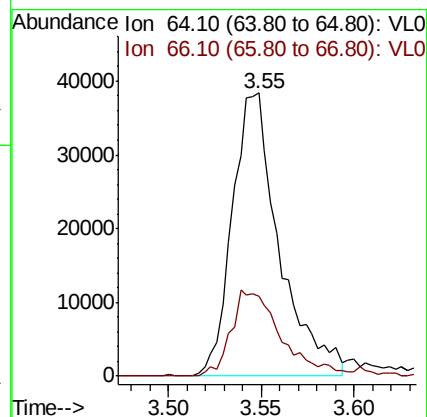
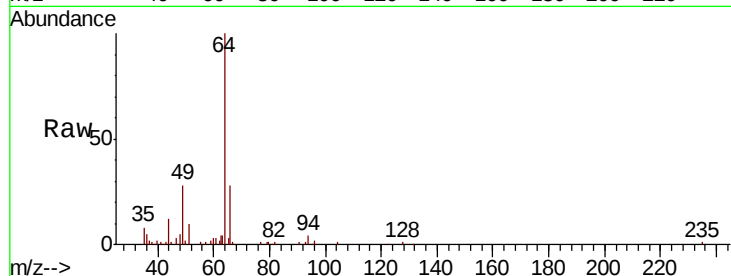
VSTDIC002

Tot Ion: 64 Resp: 68015

Ion Ratio Lower Upper

64 100

66 28.4 25.4 38.2



#8

Dichlorotetrafluoroethane

Concen: 2.108 ppbv

RT: 3.18 min Scan# 121

Delta R.T. -0.00 min

Lab File: VL036951.D

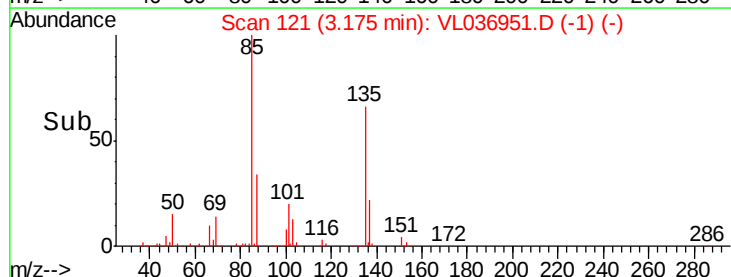
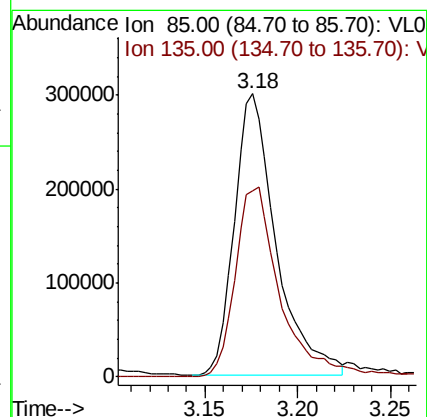
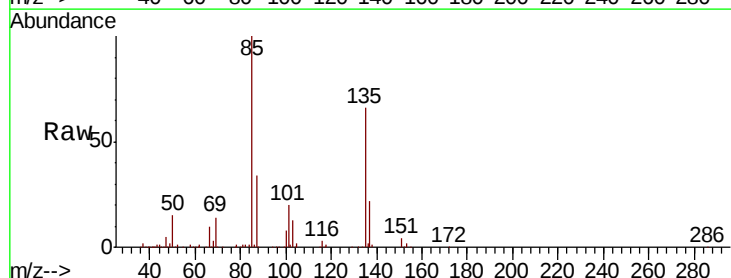
Acq: 18 May 2021 2:39

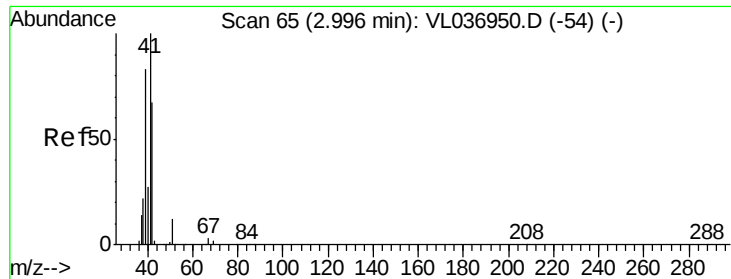
Tgt Ion: 85 Resp: 470494

Ion Ratio Lower Upper

85 100

135 74.1 57.7 86.5





#9

Propene

Concen: 2.424 ppbv

RT: 3.00 min Scan# 66

Delta R.T. 0.00 min

Lab File: VL036951.D

Acq: 18 May 2021 2:39

Instrument :

MSVOA_L

ClientSampleId :

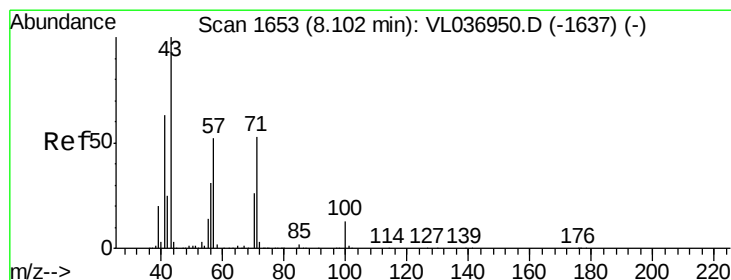
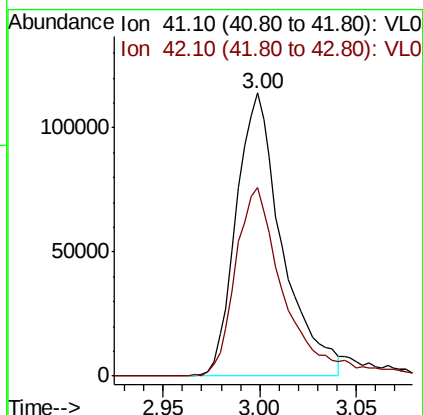
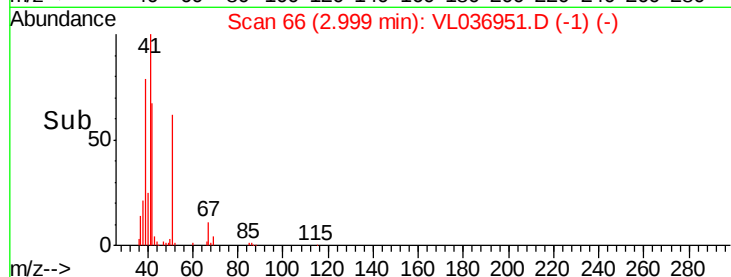
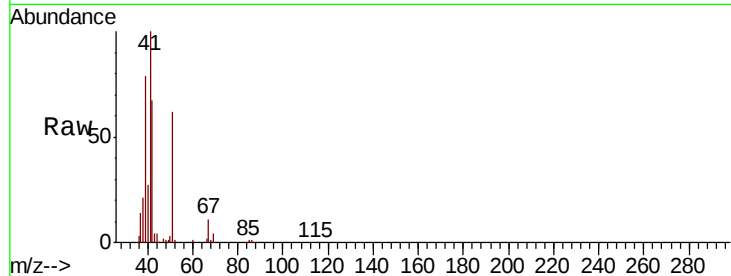
VSTDIC002

Tot Ion: 41 Resp: 188431

Ion Ratio Lower Upper

41 100

42 72.1 53.9 80.9



#10

Heptane

Concen: 2.599 ppbv

RT: 8.10 min Scan# 1653

Delta R.T. -0.00 min

Lab File: VL036951.D

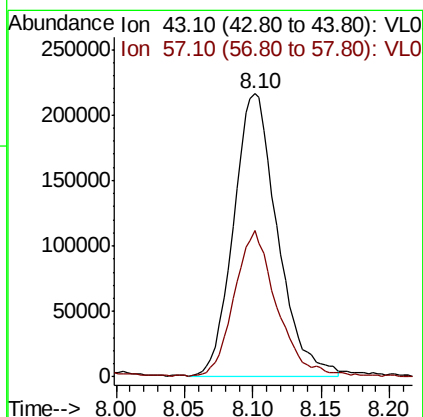
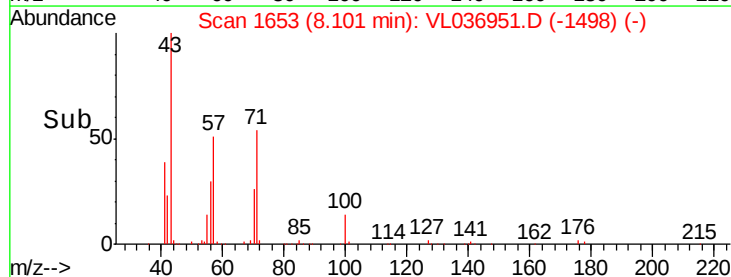
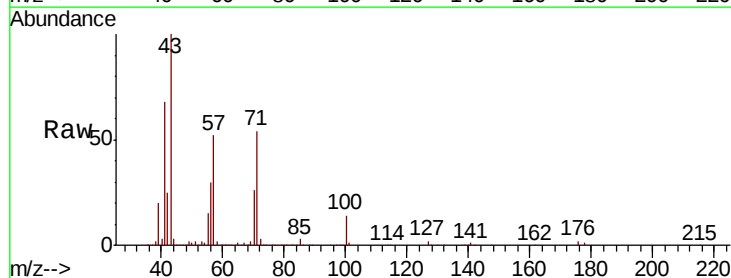
Acq: 18 May 2021 2:39

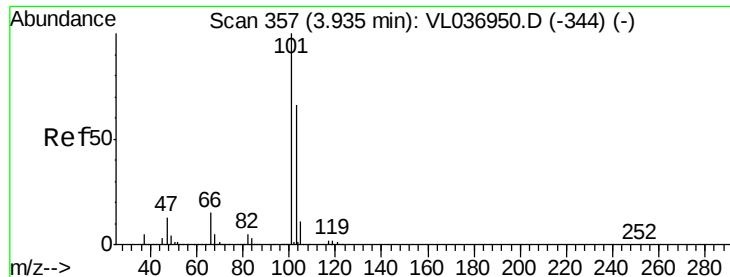
Tgt Ion: 43 Resp: 480913

Ion Ratio Lower Upper

43 100

57 49.8 41.0 61.6

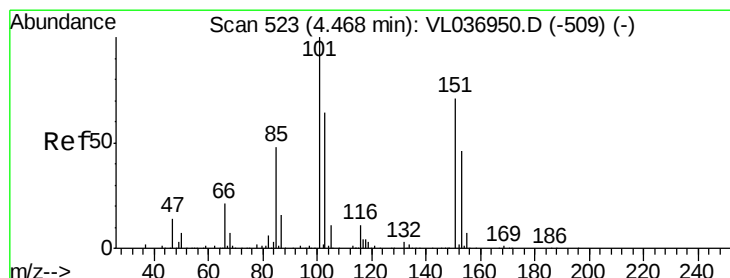
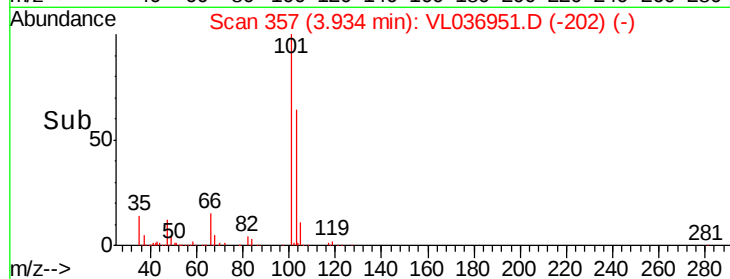
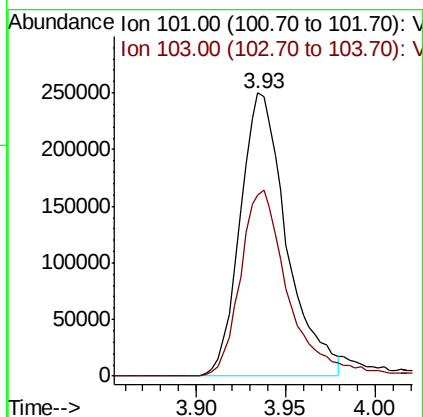
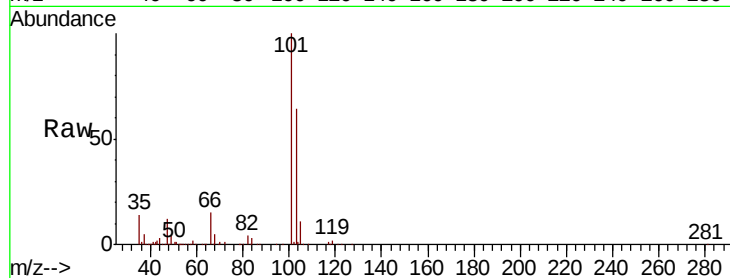




#11
 Trichlorofluoromethane
 Concen: 2.132 ppbv
 RT: 3.93 min Scan# 357
 Delta R.T. -0.00 min
 Lab File: VL036951.D
 Acq: 18 May 2021 2:39

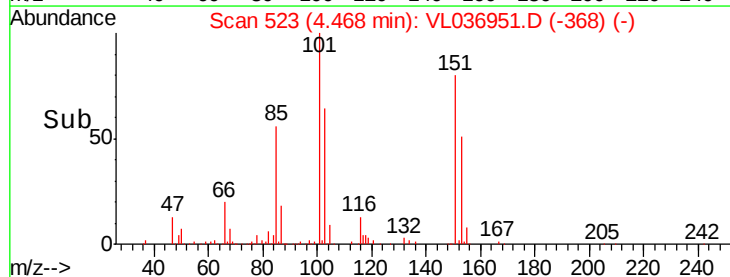
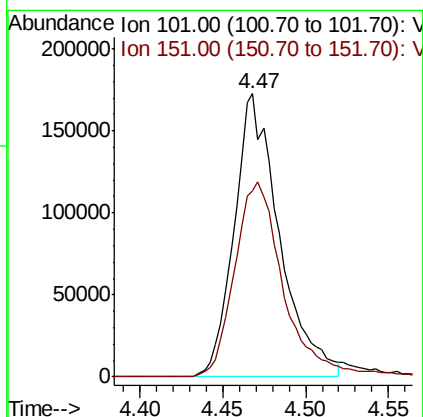
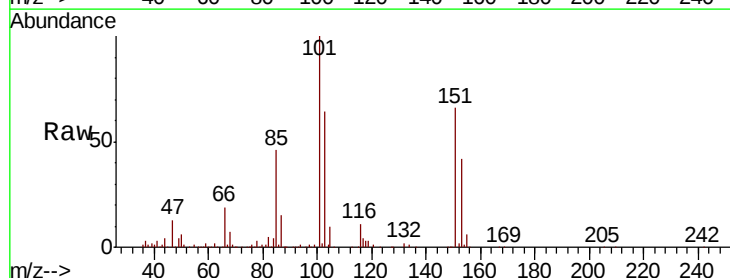
Instrument :
 MSVOA_L
 ClientSampled :
 VSTDIC002

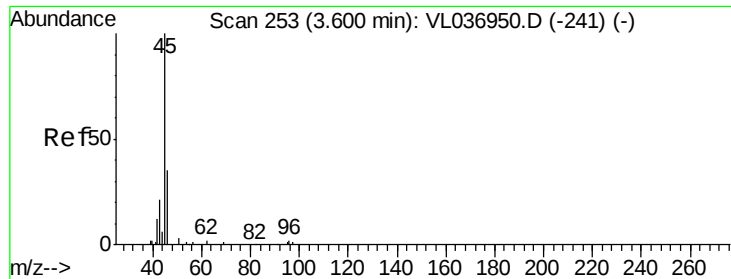
Tot Ion:101 Resp: 454128
 Ion Ratio Lower Upper
 101 100
 103 64.0 52.6 79.0



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 2.268 ppbv
 RT: 4.47 min Scan# 523
 Delta R.T. -0.00 min
 Lab File: VL036951.D
 Acq: 18 May 2021 2:39

Tgt Ion:101 Resp: 326417
 Ion Ratio Lower Upper
 101 100
 151 75.7 57.7 86.5





#13

Ethanol

Concen: 1.154 ppbv

RT: 3.61 min Scan# 255

Delta R.T. 0.01 min

Lab File: VL036951.D

Acq: 18 May 2021 2:39

Instrument :

MSVOA_L

ClientSampleId :

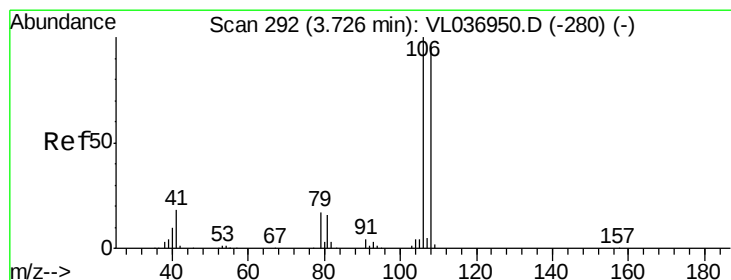
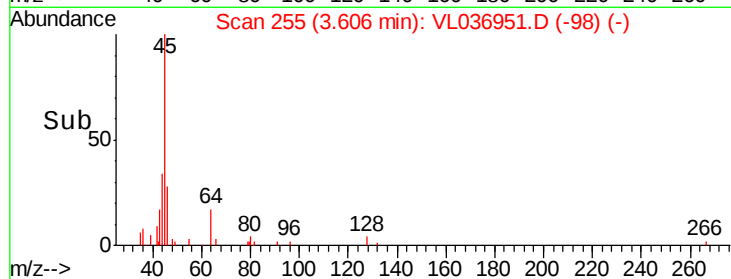
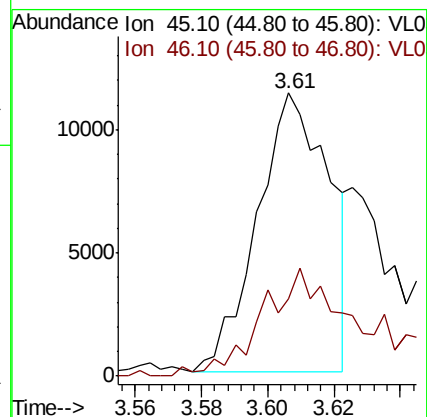
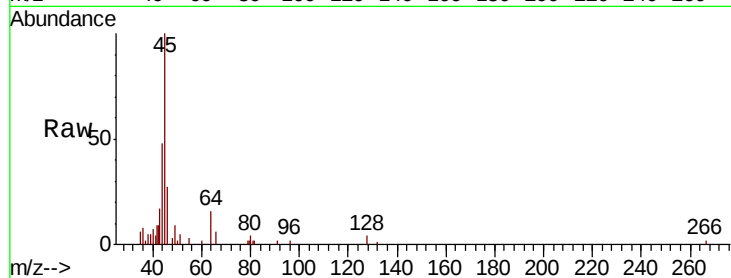
VSTDIC002

Tot Ion: 45 Resp: 17029

Ion Ratio Lower Upper

45 100

46 67.9 16.3 65.3#



#14

Bromoethene

Concen: 2.453 ppbv

RT: 3.73 min Scan# 293

Delta R.T. 0.00 min

Lab File: VL036951.D

Acq: 18 May 2021 2:39

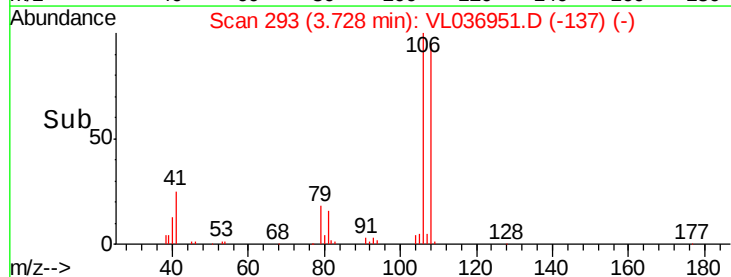
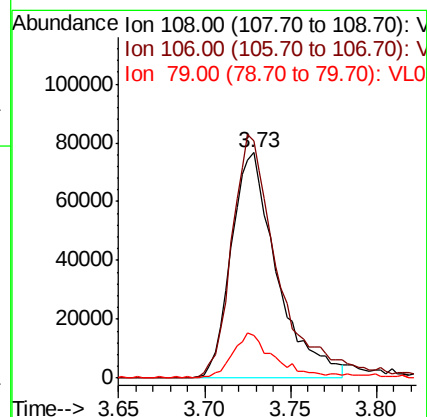
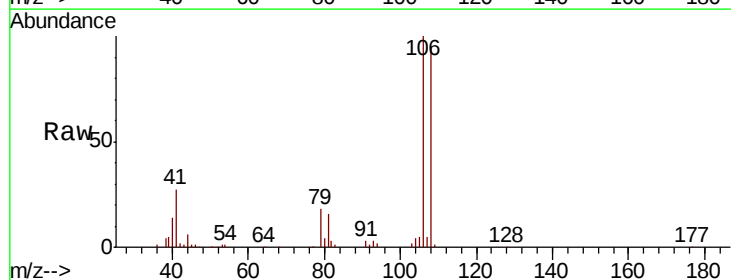
Tgt Ion: 108 Resp: 141644

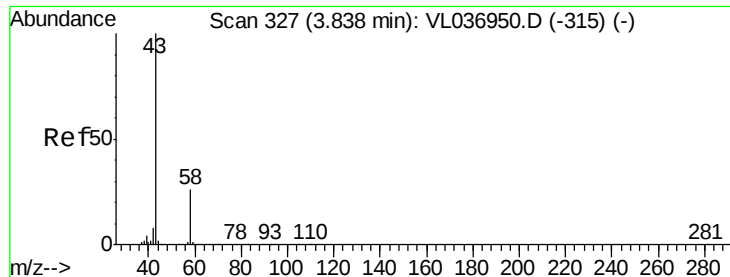
Ion Ratio Lower Upper

108 100

106 112.3 86.5 129.7

79 20.6 15.0 22.4





#15

Acetone

Concen: 2.033 ppbv

RT: 3.84 min Scan# 329

Delta R.T. 0.01 min

Lab File: VL036951.D

Acq: 18 May 2021 2:39

Instrument :

MSVOA_L

ClientSampleId :

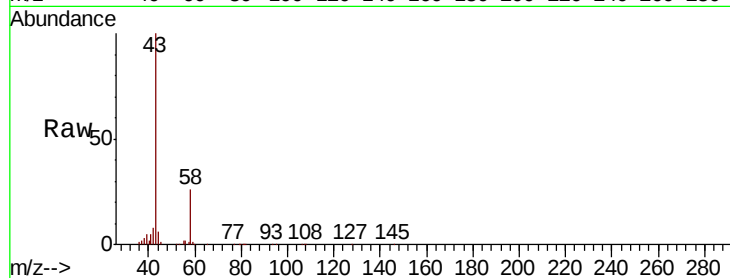
VSTDIC002

Tot Ion: 43 Resp: 264914

Ion Ratio Lower Upper

43 100

58 45.9 24.0 36.0#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.84

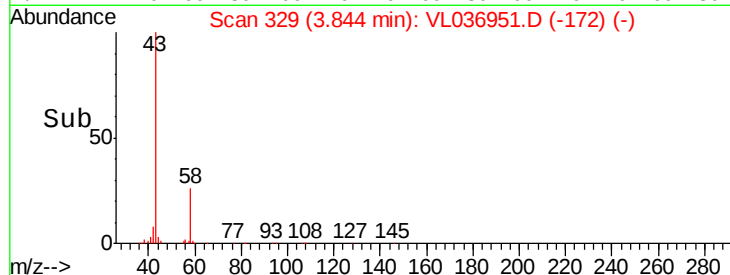
150000

100000

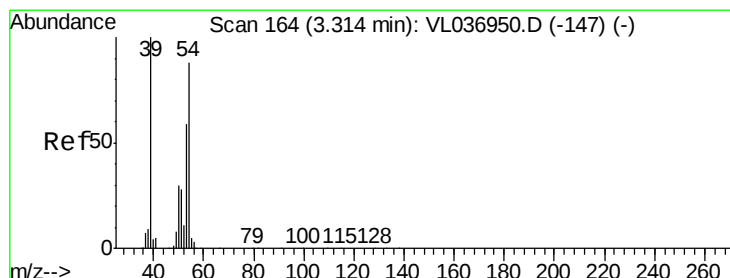
50000

0

Time-->



Time-->



#16

1,3-Butadiene

Concen: 2.178 ppbv

RT: 3.31 min Scan# 164

Delta R.T. -0.00 min

Lab File: VL036951.D

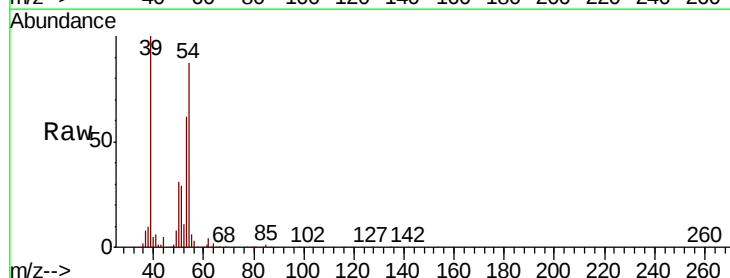
Acq: 18 May 2021 2:39

Tgt Ion: 39 Resp: 183587

Ion Ratio Lower Upper

39 100

54 81.6 63.2 94.8



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.31

100000

80000

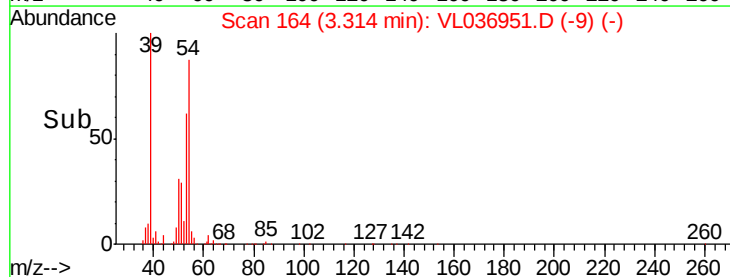
60000

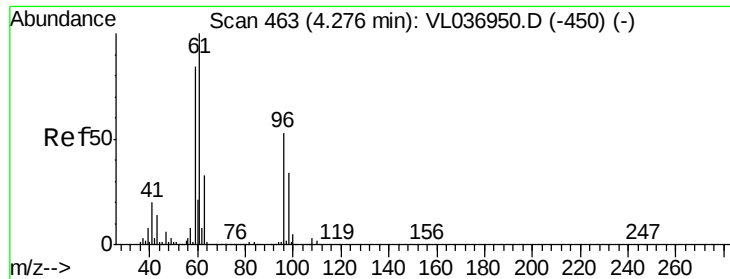
40000

20000

0

Time-->



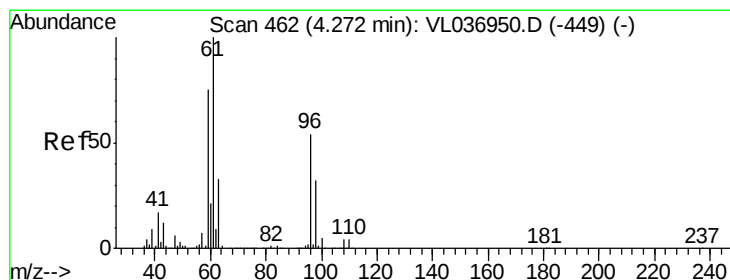
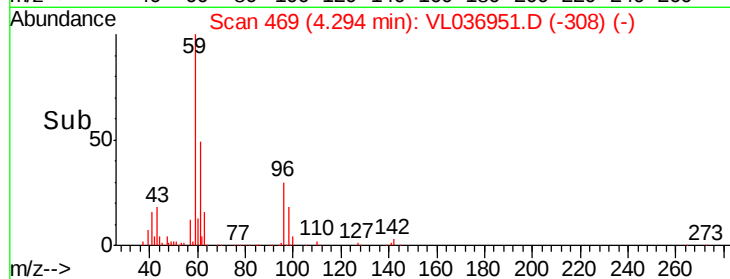
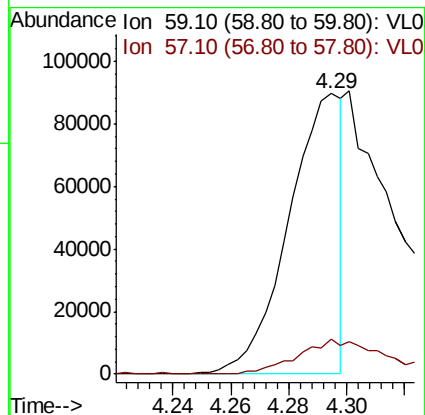
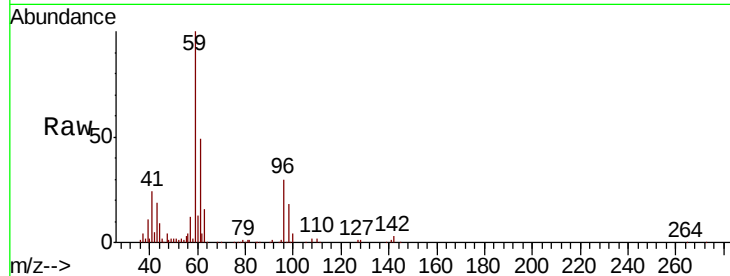


#17

tert-Butyl alcohol
Concen: 0.947 ppbv
RT: 4.29 min Scan# 469
Delta R.T. 0.02 min
Lab File: VL036951.D
Acq: 18 May 2021 2:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

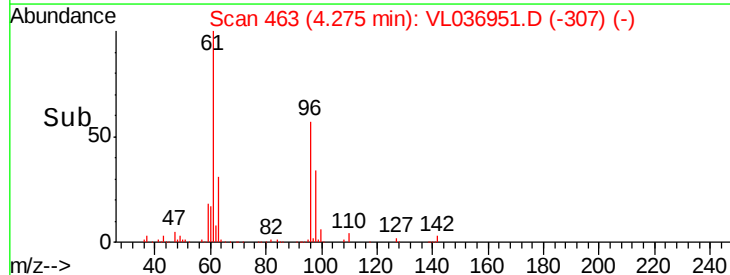
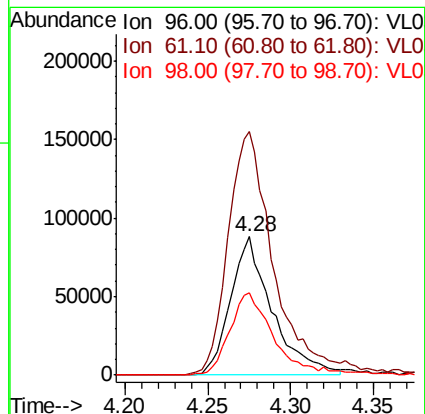
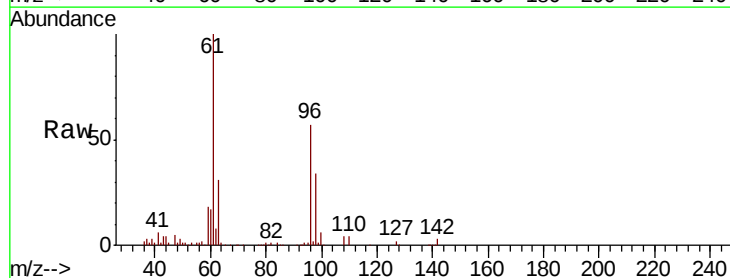
Tot Ion: 59 Resp: 113997
Ion Ratio Lower Upper
59 100
57 26.1 8.3 12.5#

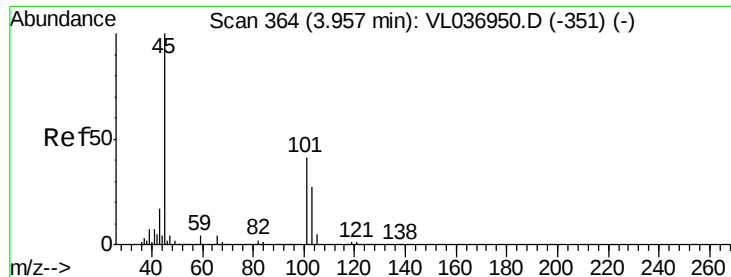


#18

1,1-Dichloroethene
Concen: 2.599 ppbv
RT: 4.28 min Scan# 463
Delta R.T. 0.00 min
Lab File: VL036951.D
Acq: 18 May 2021 2:39

Tgt Ion: 96 Resp: 153730
Ion Ratio Lower Upper
96 100
61 175.0 148.2 222.4
98 59.8 47.8 71.6





#19

Isopropyl Alcohol

Concen: 1.675 ppbv

RT: 3.97 min Scan# 369

Delta R.T. 0.02 min

Lab File: VL036951.D

Acq: 18 May 2021 2:39

Instrument :

MSVOA_L

ClientSampleId :

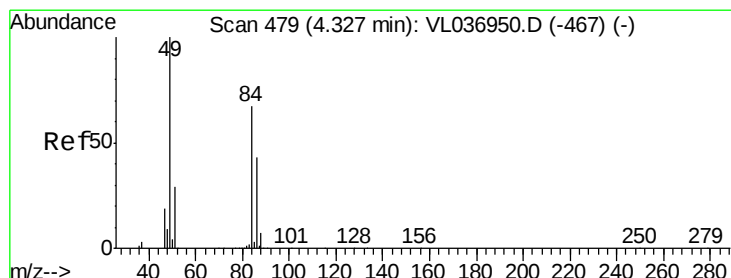
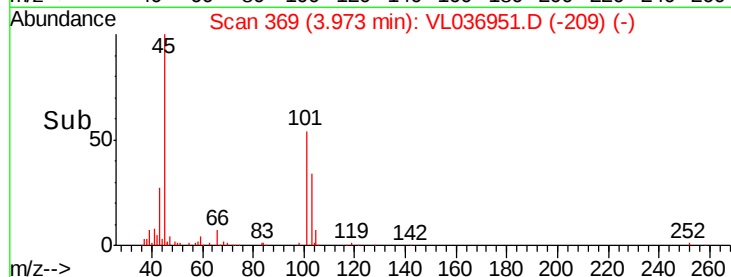
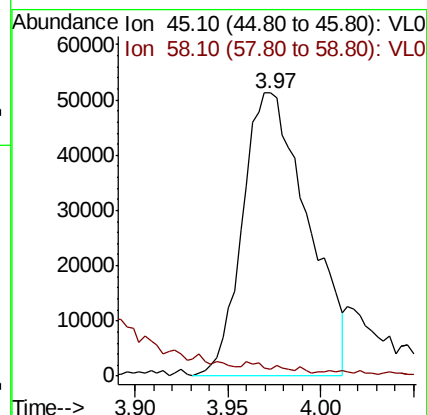
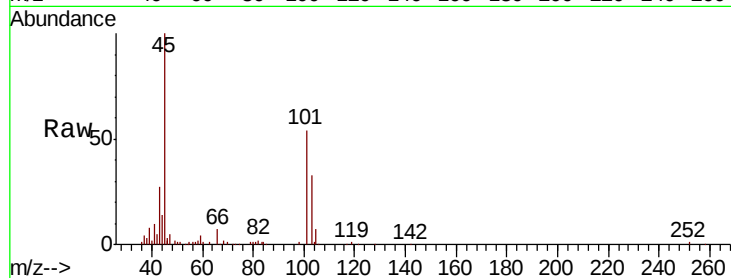
VSTDIC002

Tot Ion: 45 Resp: 124355

Ion Ratio Lower Upper

45 100

58 99.0 37.2 55.8#



#20

Methylene Chloride

Concen: 1.581 ppbv

RT: 4.33 min Scan# 480

Delta R.T. 0.00 min

Lab File: VL036951.D

Acq: 18 May 2021 2:39

Tgt Ion: 84 Resp: 168232

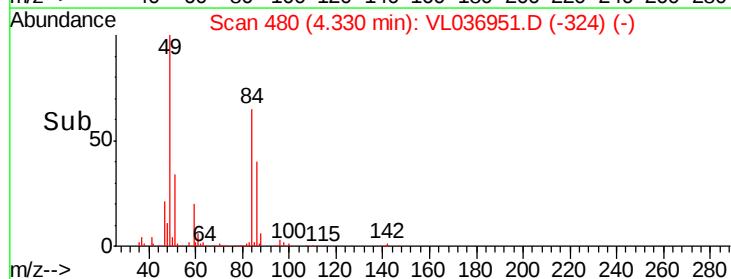
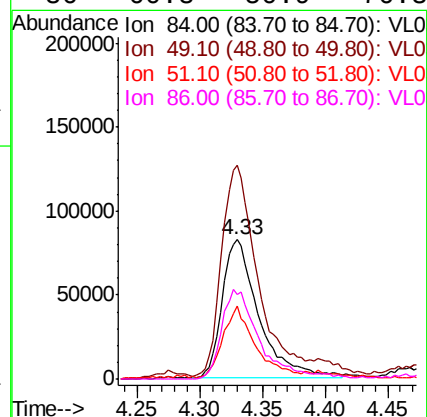
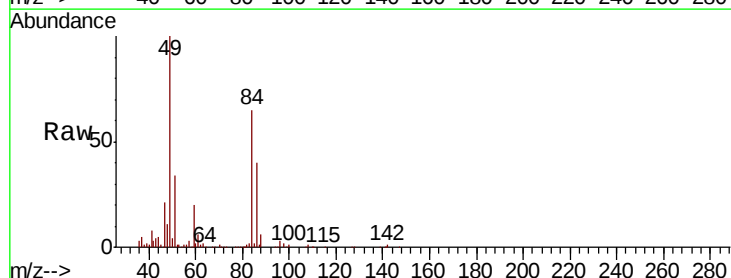
Ion Ratio Lower Upper

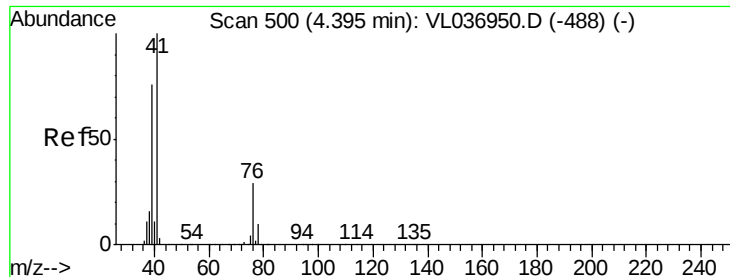
84 100

49 152.3 119.8 179.6

51 51.0 35.1 52.7

86 60.8 50.9 76.3





#21

Allvl Chloride

Concen: 2.265 ppbv

RT: 4.39 min Scan# 500

Delta R.T. -0.00 min

Lab File: VL036951.D

Acq: 18 May 2021 2:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

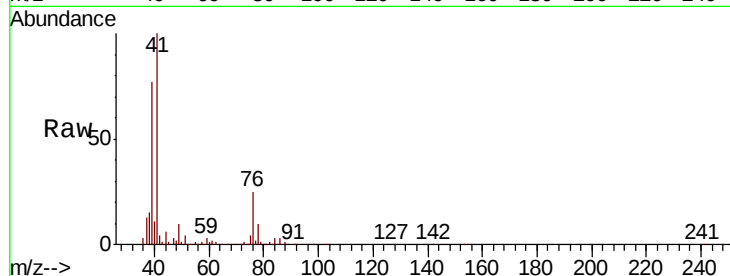
Tot Ion: 41 Resp: 217231

Ion Ratio Lower Upper

41 100

76 31.1 24.9 37.3

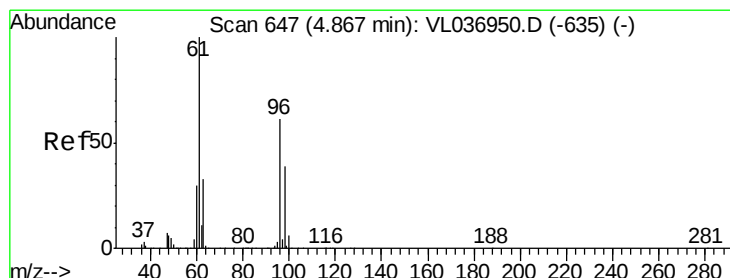
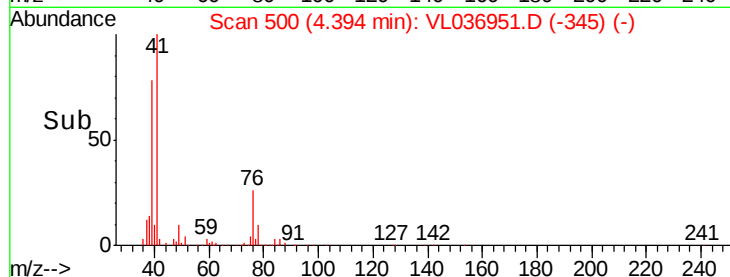
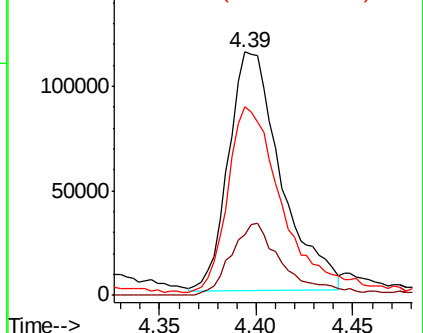
39 82.8 63.7 95.5



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: 2.147 ppbv

RT: 4.87 min Scan# 647

Delta R.T. -0.00 min

Lab File: VL036951.D

Acq: 18 May 2021 2:39

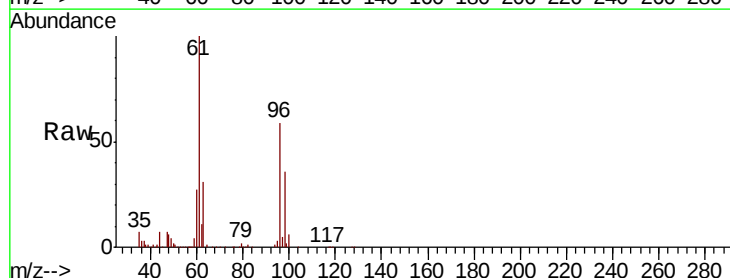
Tgt Ion: 96 Resp: 130220

Ion Ratio Lower Upper

96 100

61 170.8 130.6 196.0

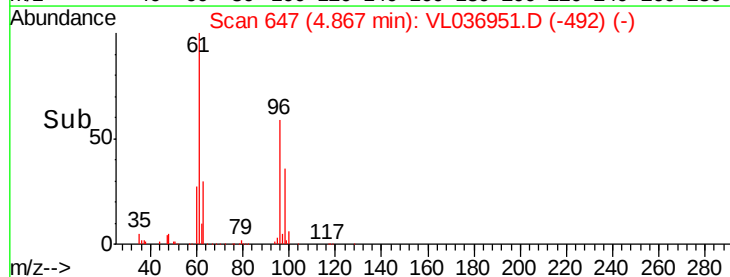
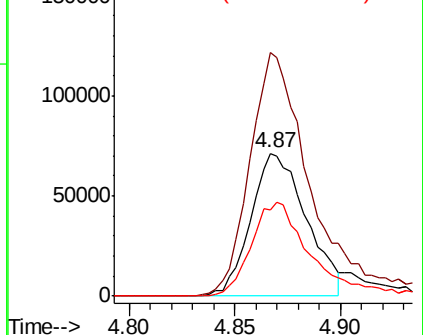
98 60.7 50.8 76.2

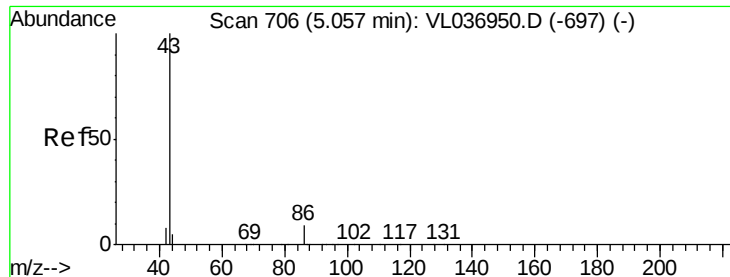


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#23

Vinyl Acetate

Concen: 2.660 ppbv

RT: 5.06 min Scan# 707

Delta R.T. 0.00 min

Lab File: VL036951.D

Acq: 18 May 2021 2:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 43 Resp: 492961

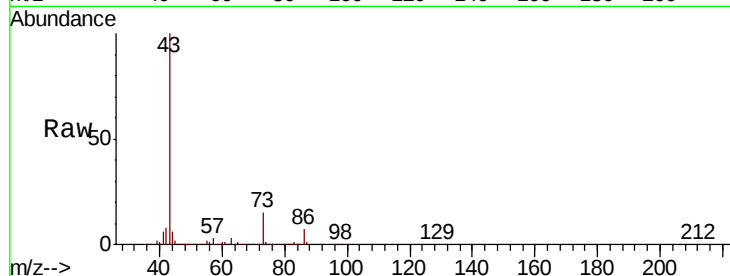
Ion Ratio Lower Upper

43 100

86 7.0 5.8 8.8

42 8.1 7.4 11.2

44 4.0 3.3 4.9

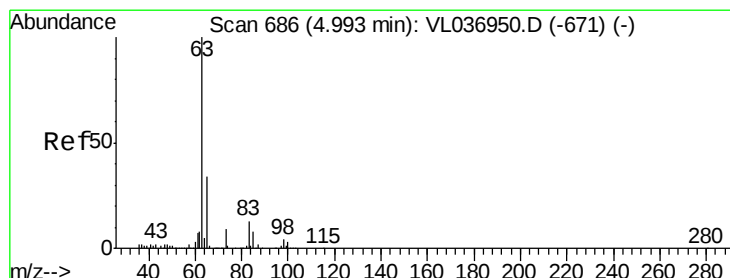
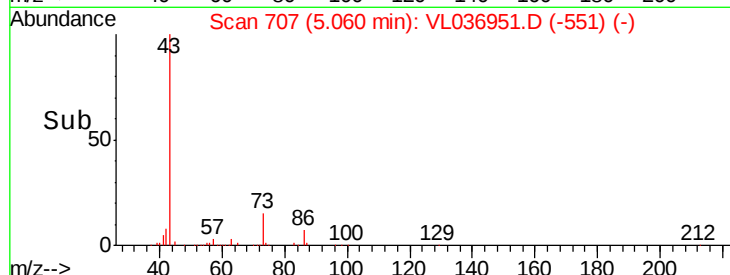
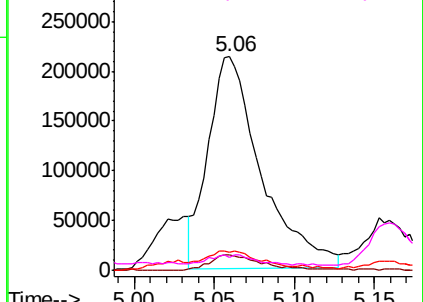


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 2.385 ppbv

RT: 4.99 min Scan# 686

Delta R.T. -0.00 min

Lab File: VL036951.D

Acq: 18 May 2021 2:39

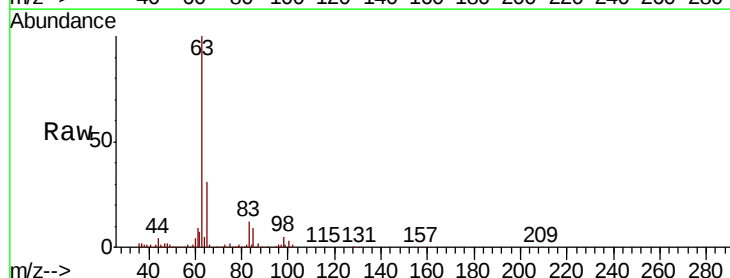
Tgt Ion: 63 Resp: 335752

Ion Ratio Lower Upper

63 100

98 4.6 2.3 6.9

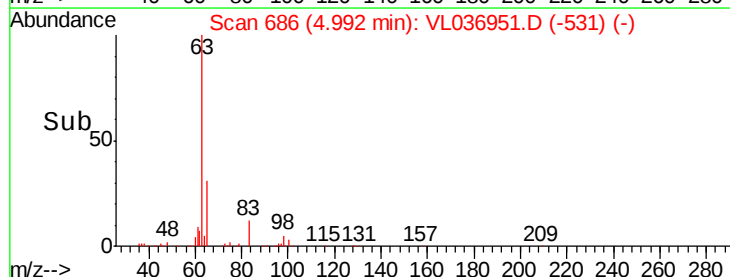
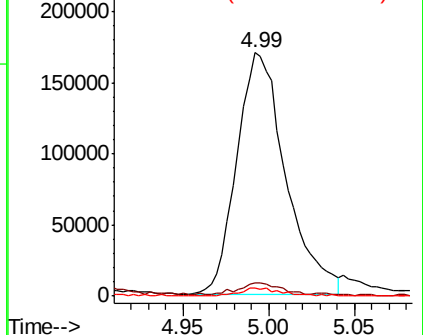
100 3.1 1.4 4.0

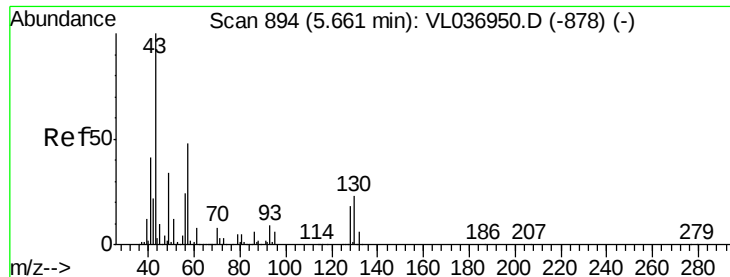


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

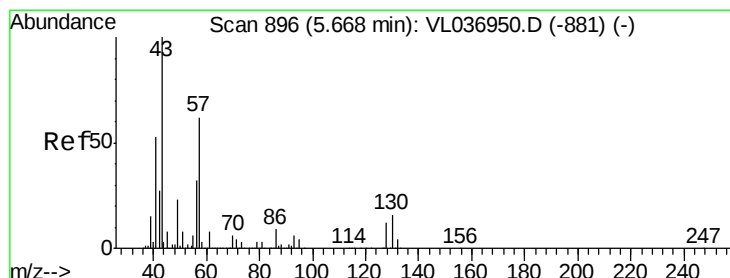
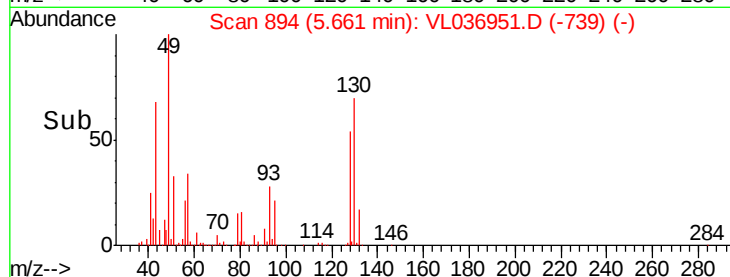
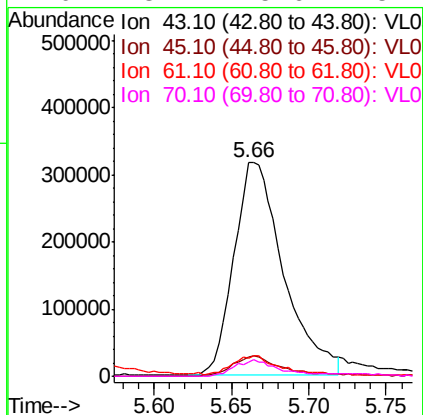
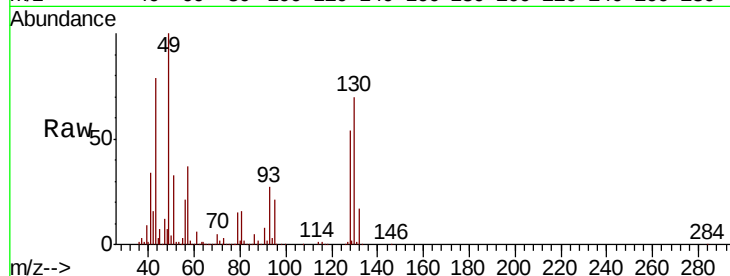




#25
Ethyl Acetate
Concen: 2.196 ppbv
RT: 5.66 min Scan# 894
Delta R.T. -0.00 min
Lab File: VL036951.D
Acq: 18 May 2021 2:39

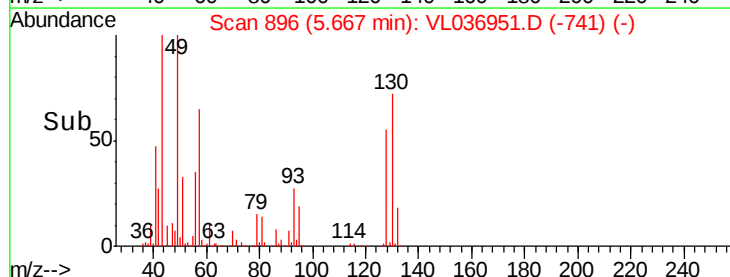
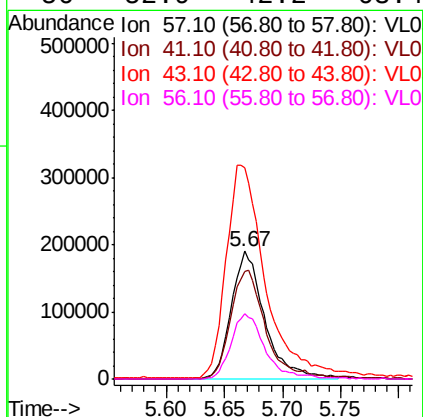
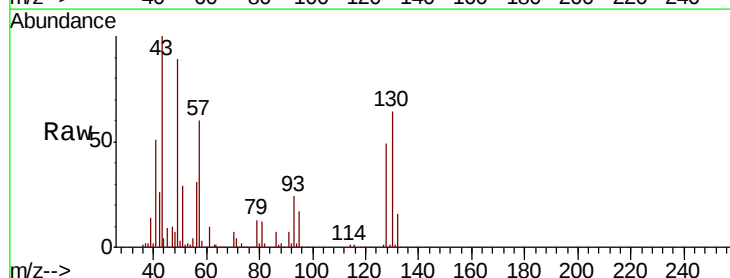
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

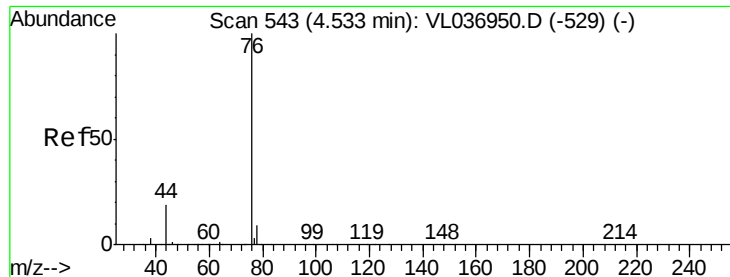
Tot Ion:	43	Resp:	706951
Ion	Ratio	Lower	Upper
43	100		
45	10.0	7.8	11.8
61	10.0	7.8	11.8
70	8.4	5.6	8.4



#26
Hexane
Concen: 2.301 ppbv
RT: 5.67 min Scan# 896
Delta R.T. -0.00 min
Lab File: VL036951.D
Acq: 18 May 2021 2:39

Tgt Ion:	57	Resp:	380450
Ion	Ratio	Lower	Upper
57	100		
41	89.0	70.5	105.7
43	200.7	165.8	248.8
56	52.9	42.2	63.4





#27

Carbon Disulfide

Concen: 2.511 ppbv

RT: 4.54 min Scan# 544

Delta R.T. 0.00 min

Lab File: VL036951.D

Acq: 18 May 2021 2:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

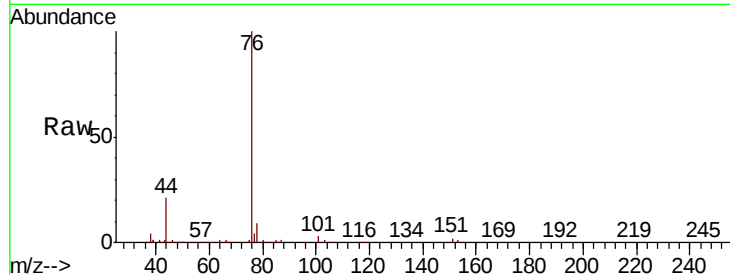
Tot Ion: 76 Resp: 367611

Ion Ratio Lower Upper

76 100

44 22.6 15.5 23.3

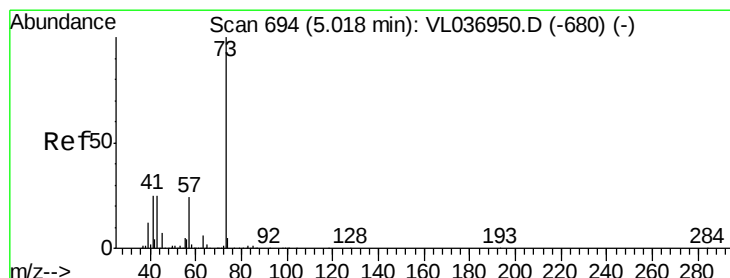
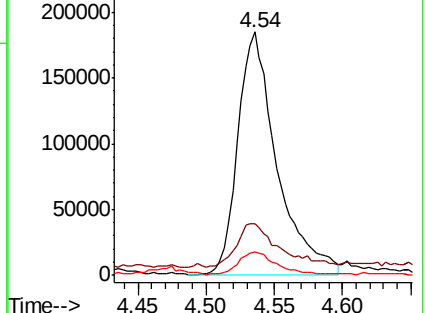
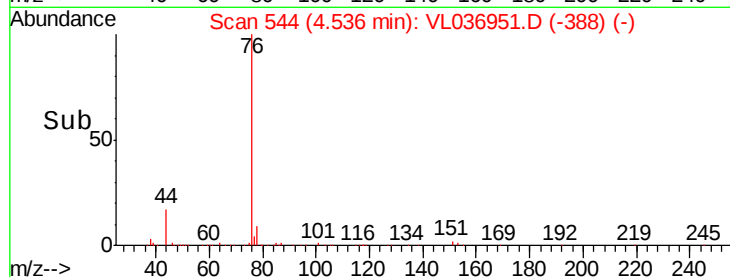
78 10.5 7.8 11.6



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: 2.856 ppbv

RT: 5.02 min Scan# 696

Delta R.T. 0.01 min

Lab File: VL036951.D

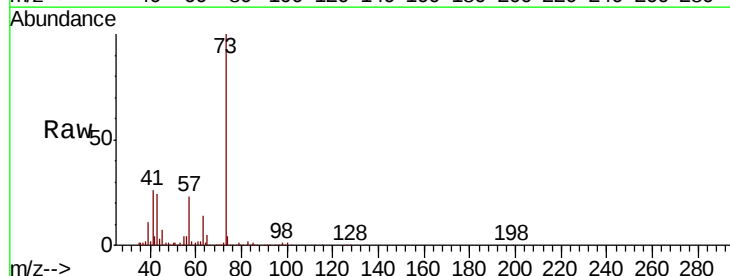
Acq: 18 May 2021 2:39

Tgt Ion: 73 Resp: 456160

Ion Ratio Lower Upper

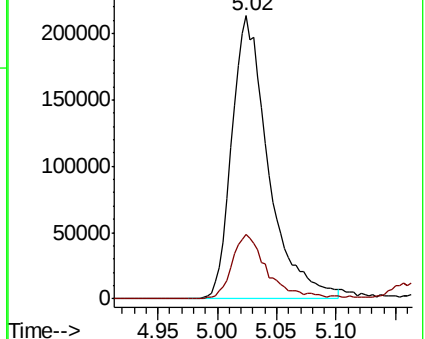
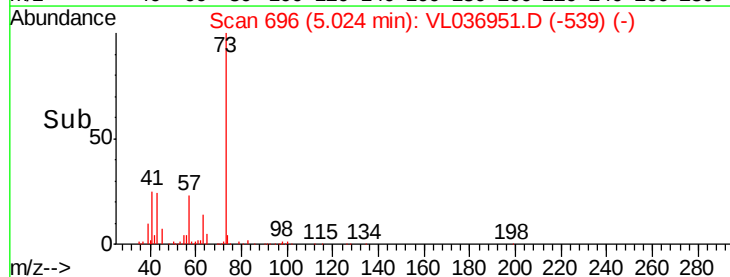
73 100

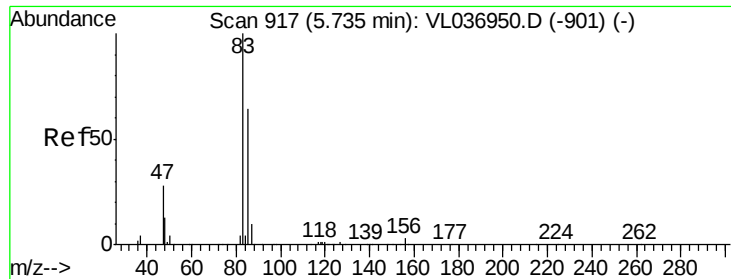
57 22.5 18.3 27.5



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 2.126 ppbv

RT: 5.73 min Scan# 916

Delta R.T. -0.00 min

Lab File: VL036951.D

Acq: 18 May 2021 2:39

Instrument :

MSVOA_L

ClientSampled :

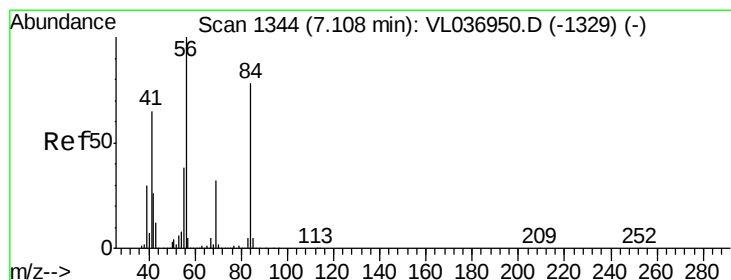
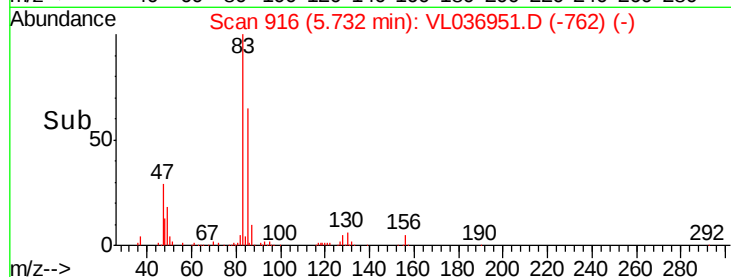
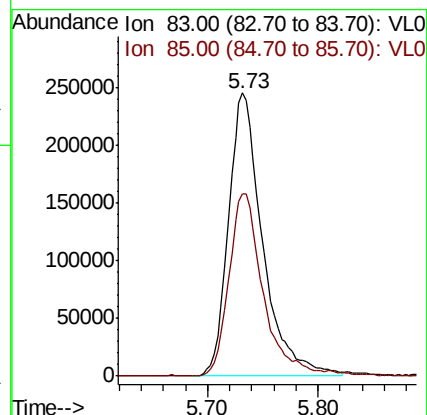
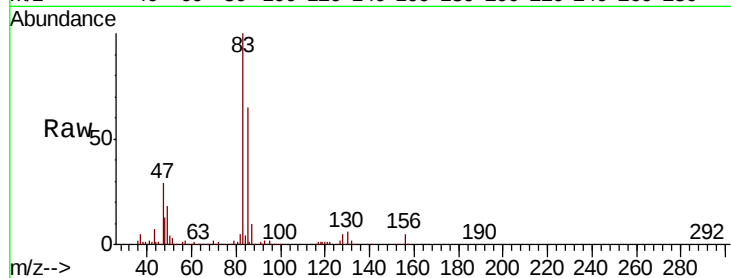
VSTDIC002

Tot Ion: 83 Resp: 527383

Ion Ratio Lower Upper

83 100

85 64.3 51.1 76.7



#30

Cyclohexane

Concen: 2.523 ppbv

RT: 7.11 min Scan# 1345

Delta R.T. 0.00 min

Lab File: VL036951.D

Acq: 18 May 2021 2:39

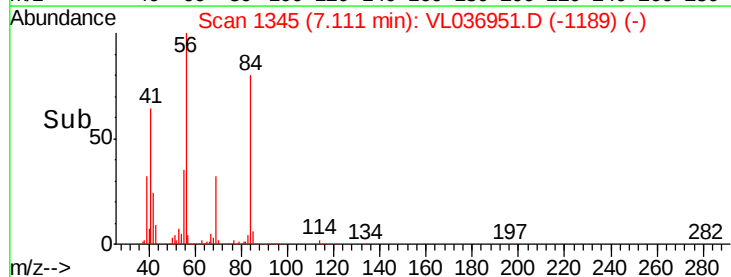
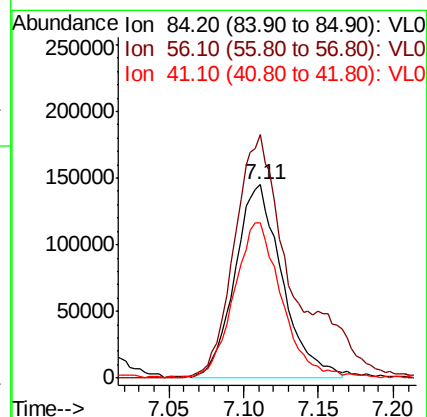
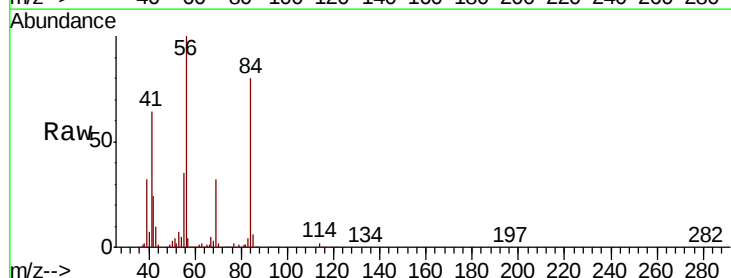
Tgt Ion: 84 Resp: 319008

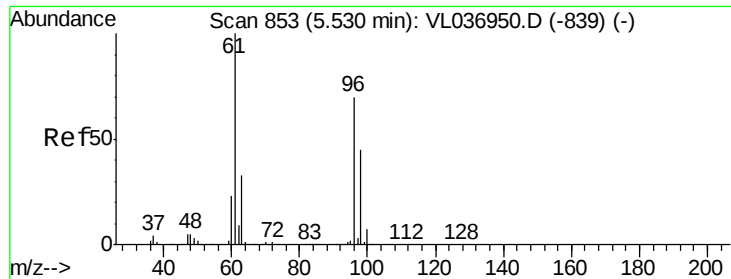
Ion Ratio Lower Upper

84 100

56 156.9 107.9 161.9

41 80.6 65.5 98.3



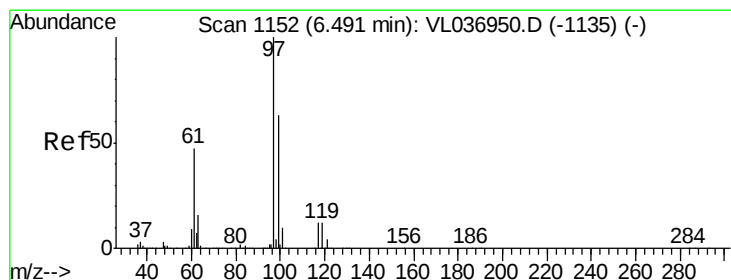
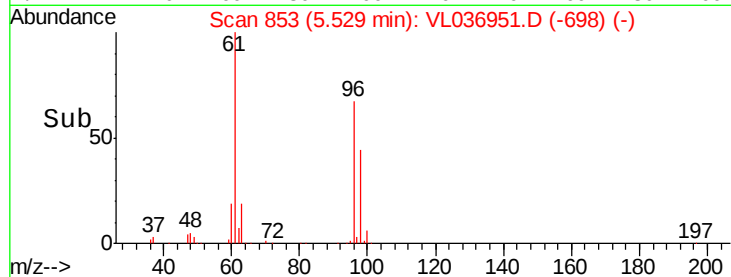
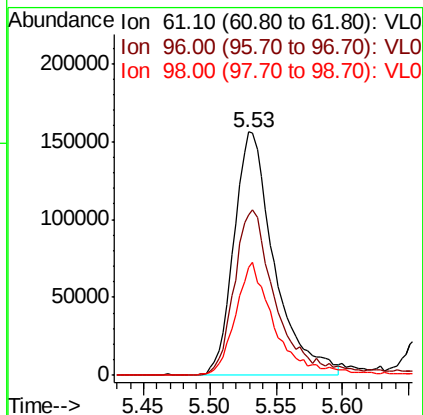
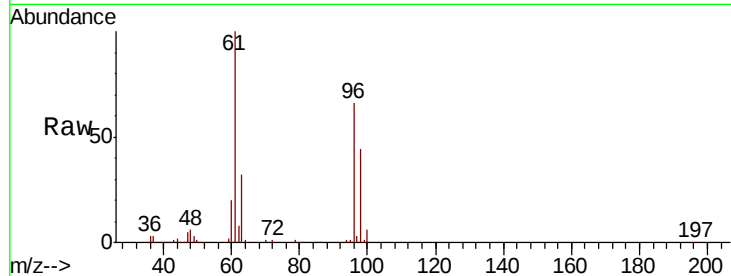


#31

cis-1,2-Dichloroethene
 Concen: 2.537 ppbv
 RT: 5.53 min Scan# 853
 Delta R.T. -0.00 min
 Lab File: VL036951.D
 Acq: 18 May 2021 2:39

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

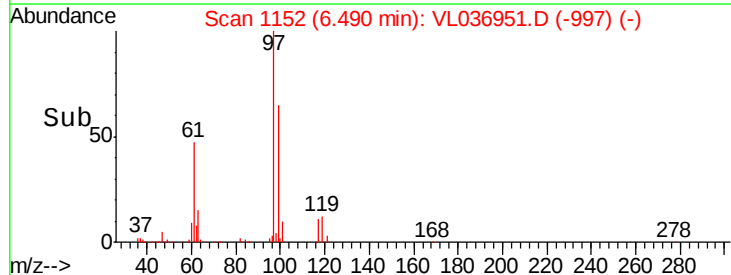
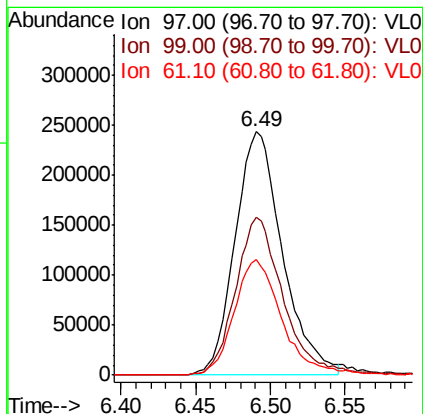
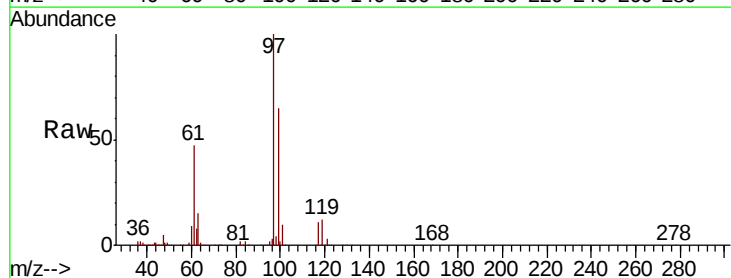
Tot Ion	Ratio	Lower	Upper
61	100		
96	65.7	55.9	83.9
98	44.3	35.6	53.4

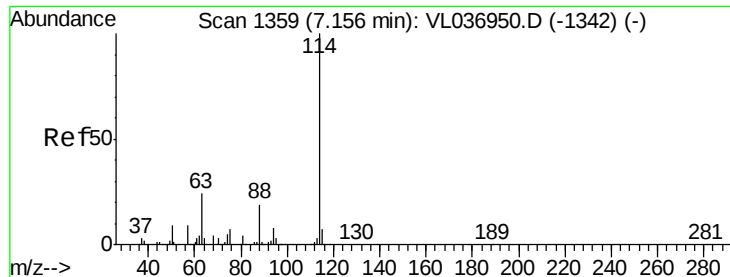


#32

1,1,1-Trichloroethane
 Concen: 2.030 ppbv
 RT: 6.49 min Scan# 1152
 Delta R.T. -0.00 min
 Lab File: VL036951.D
 Acq: 18 May 2021 2:39

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.6	51.9	77.9
61	48.3	37.6	56.4

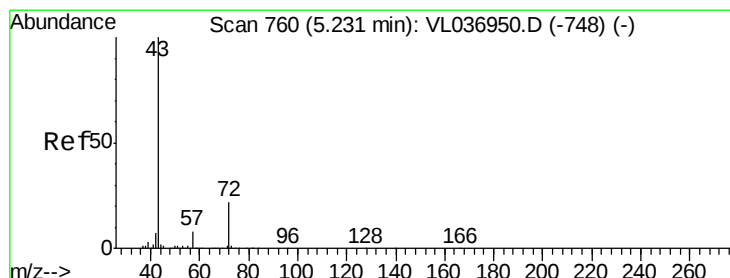
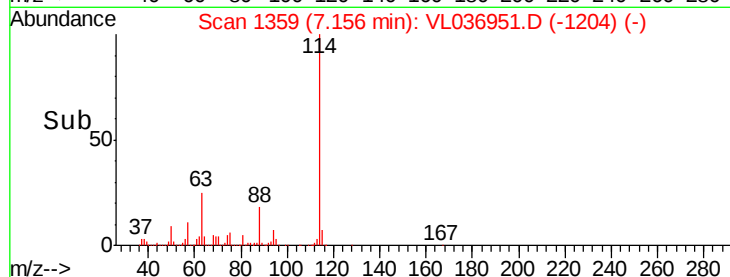
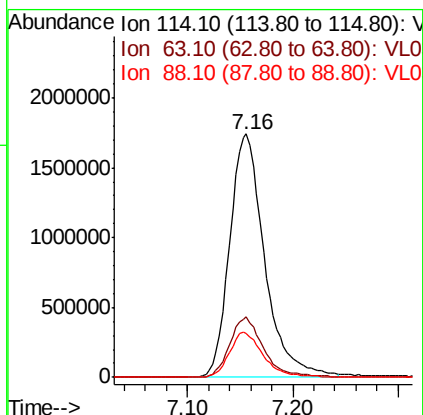
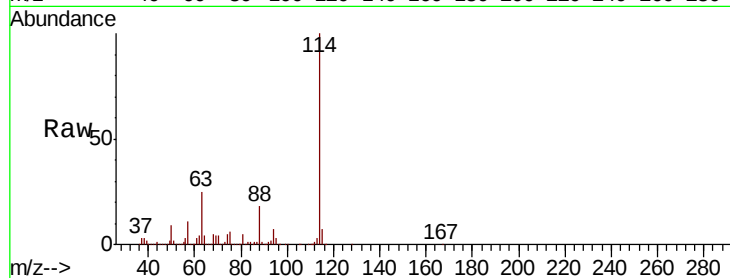




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16 min Scan# 1359
 Delta R.T. -0.00 min
 Lab File: VL036951.D
 Acq: 18 May 2021 2:39

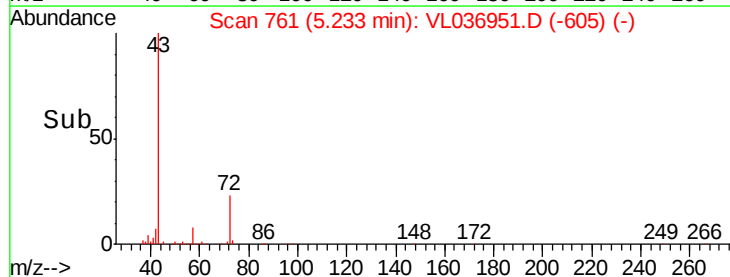
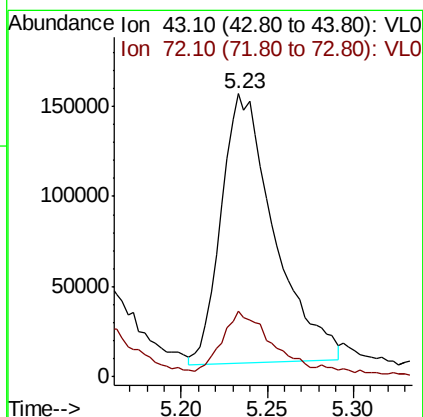
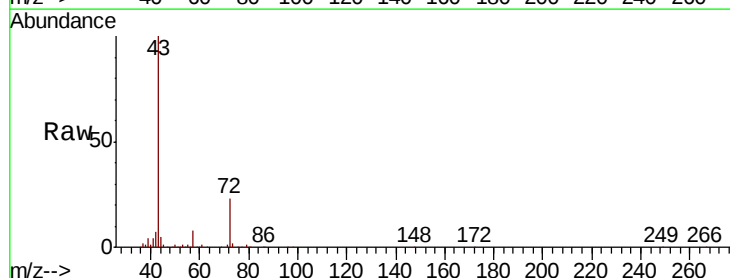
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

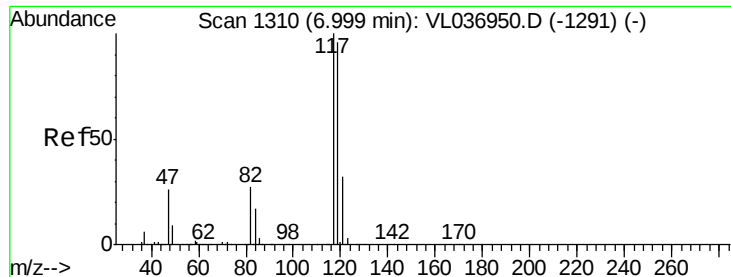
Tot Ion:114 Resp: 4004705
 Ion Ratio Lower Upper
 114 100
 63 24.4 19.6 29.4
 88 17.9 14.6 21.8



#34
 2-Butanone
 Concen: 2.090 ppbv
 RT: 5.23 min Scan# 761
 Delta R.T. 0.00 min
 Lab File: VL036951.D
 Acq: 18 May 2021 2:39

Tgt Ion: 43 Resp: 320109
 Ion Ratio Lower Upper
 43 100
 72 27.5 19.0 28.4





#35

Carbon Tetrachloride

Concen: 1.742 ppbv

RT: 7.00 min Scan# 1309

Delta R.T. -0.00 min

Lab File: VL036951.D

Acq: 18 May 2021 2:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

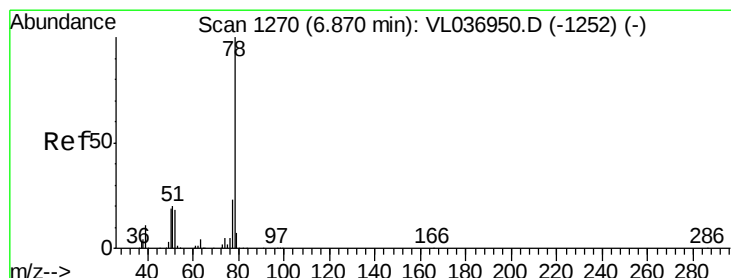
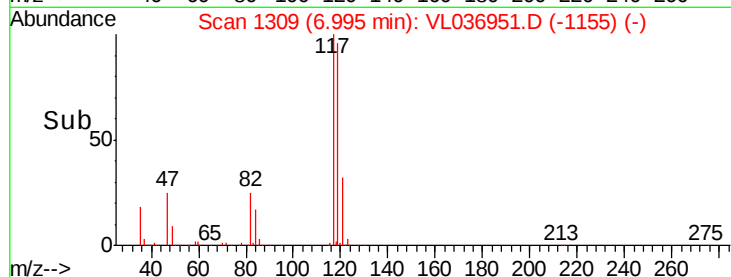
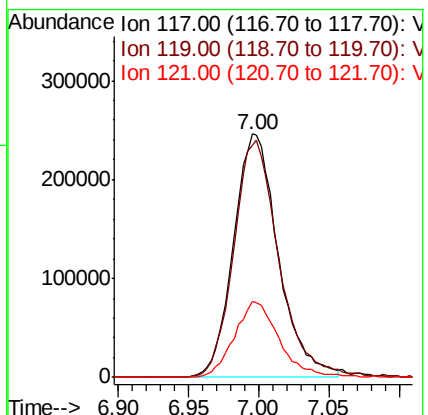
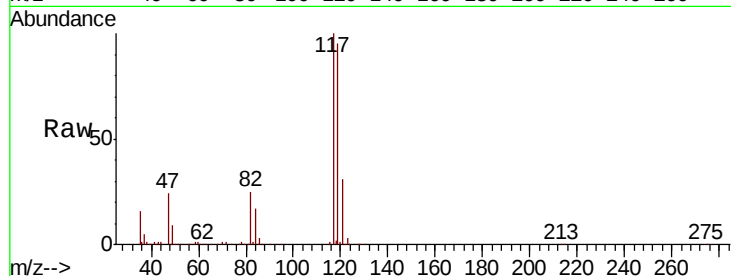
Tot Ion:117 Resp: 545149

Ion Ratio Lower Upper

117 100

119 95.4 76.6 114.8

121 31.0 25.8 38.6



#36

Benzene

Concen: 2.320 ppbv

RT: 6.87 min Scan# 1269

Delta R.T. -0.00 min

Lab File: VL036951.D

Acq: 18 May 2021 2:39

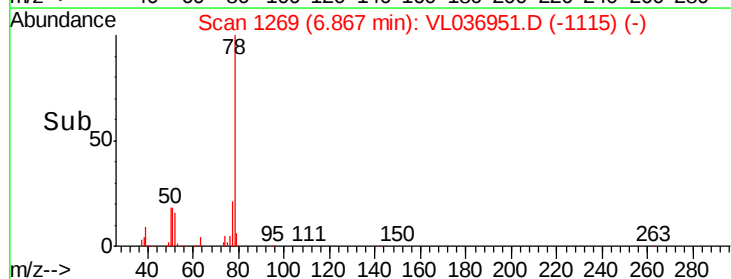
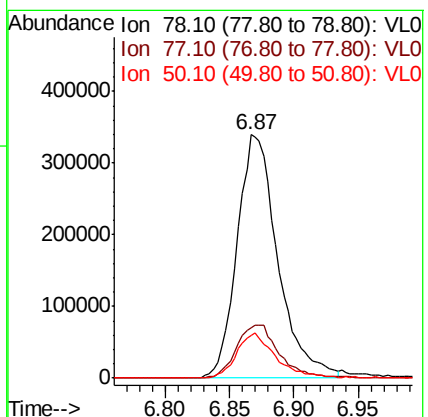
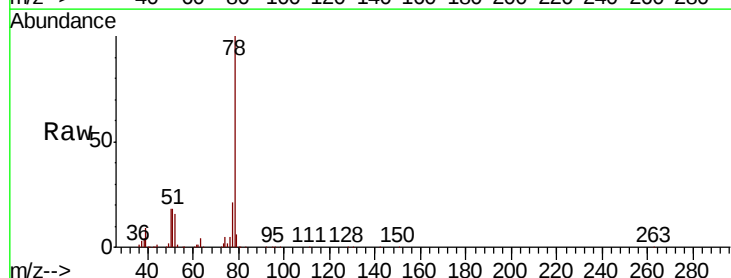
Tgt Ion: 78 Resp: 746488

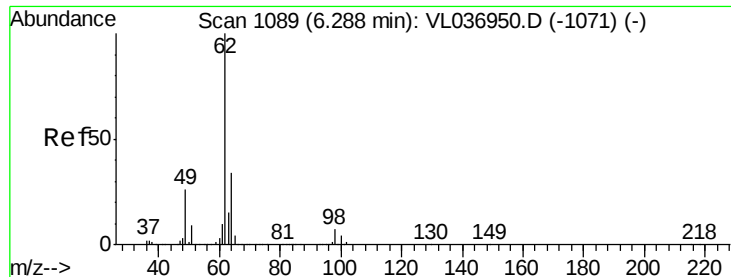
Ion Ratio Lower Upper

78 100

77 20.6 18.6 28.0

50 17.6 15.0 22.4





#37

1,2-Dichloroethane

Concen: 1.910 ppbv

RT: 6.28 min Scan# 1088

Delta R.T. -0.00 min

Lab File: VL036951.D

Acq: 18 May 2021 2:39

Instrument :

MSVOA_L

ClientSampleId :

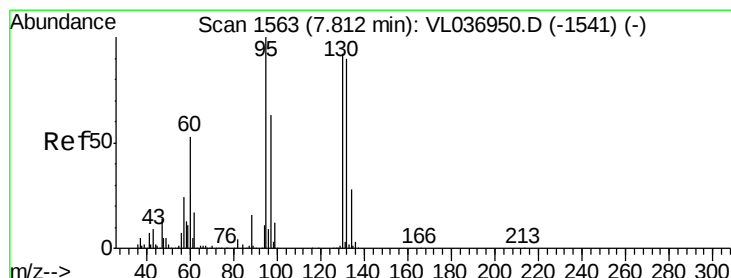
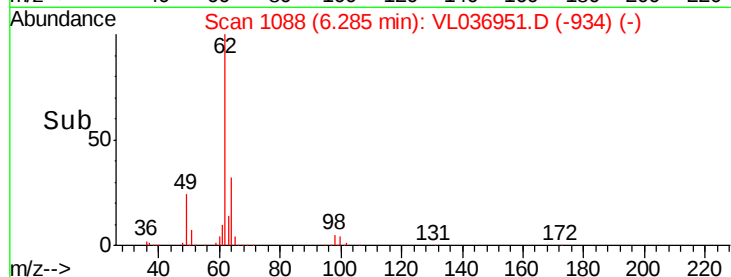
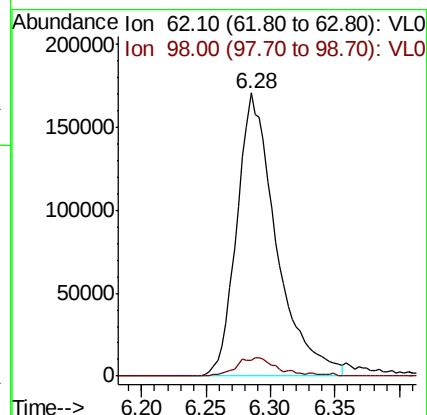
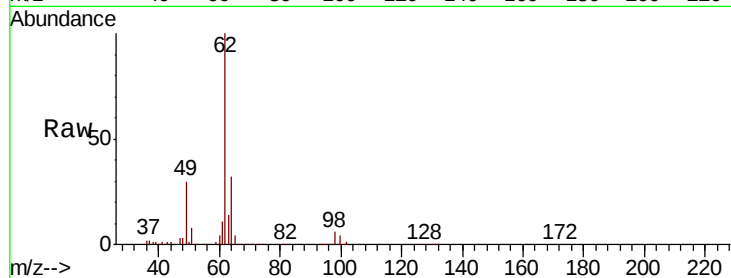
VSTDIC002

Tot Ion: 62 Resp: 364532

Ion Ratio Lower Upper

62 100

98 7.2 5.5 8.3



#38

Trichloroethene

Concen: 2.242 ppbv

RT: 7.81 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VL036951.D

Acq: 18 May 2021 2:39

Tgt Ion:130 Resp: 295810

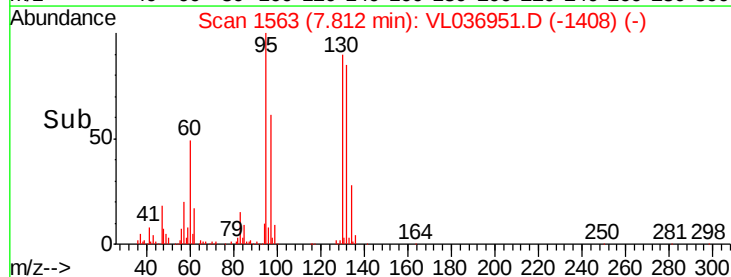
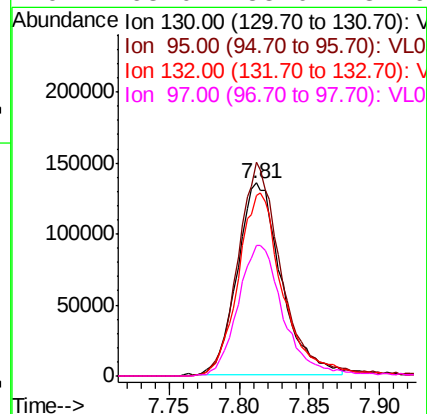
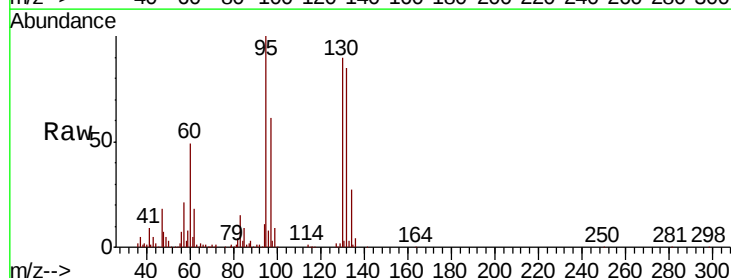
Ion Ratio Lower Upper

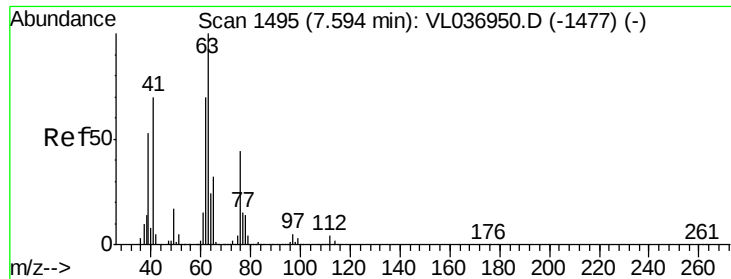
130 100

95 110.9 86.9 130.3

132 94.3 78.4 117.6

97 68.0 55.0 82.6





#39

1,2-Dichloropropane

Concen: 2.157 ppbv

RT: 7.59 min Scan# 1494

Delta R.T. -0.00 min

Lab File: VL036951.D

Acq: 18 May 2021 2:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

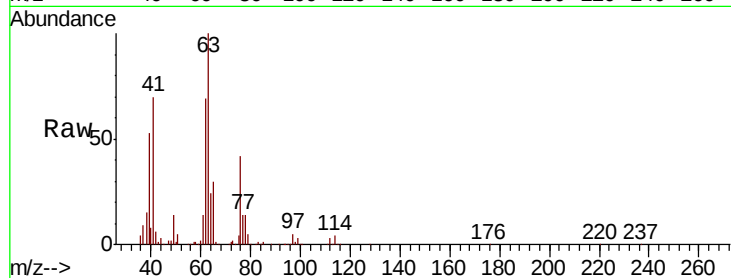
Tot Ion: 63 Resp: 284233

Ion Ratio Lower Upper

63 100

41 68.3 55.7 83.5

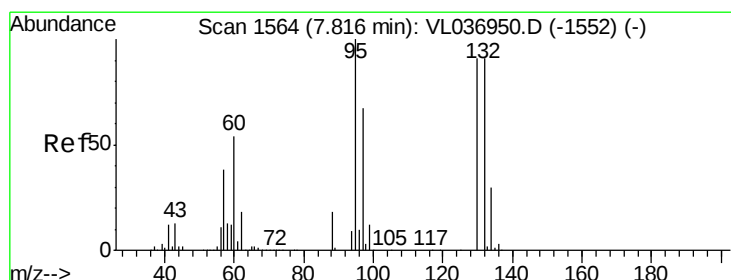
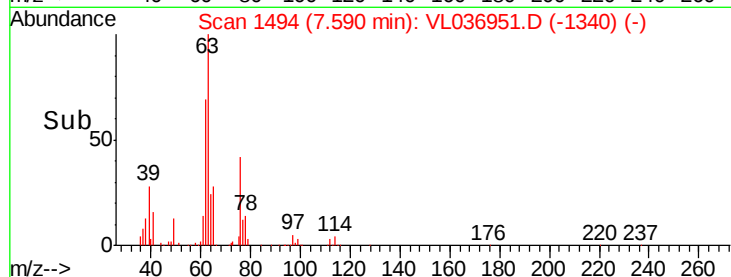
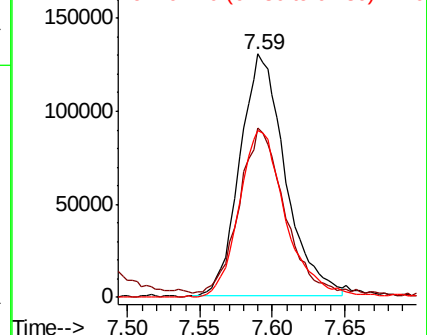
62 68.8 56.2 84.4



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 0.162 ppbv

RT: 7.82 min Scan# 1565

Delta R.T. 0.00 min

Lab File: VL036951.D

Acq: 18 May 2021 2:39

Tgt Ion: 88 Resp: 5571

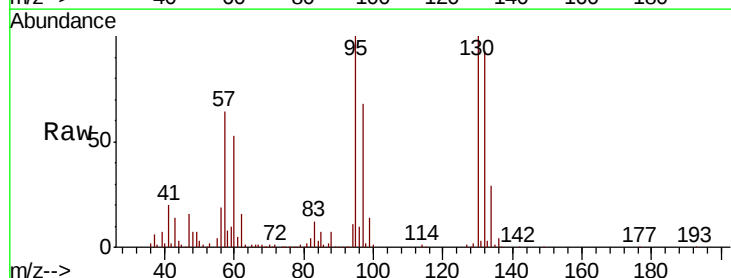
Ion Ratio Lower Upper

88 100

58 0.0 0.0 0.0

43 0.0 0.0 0.0

57 0.0 0.0 0.0

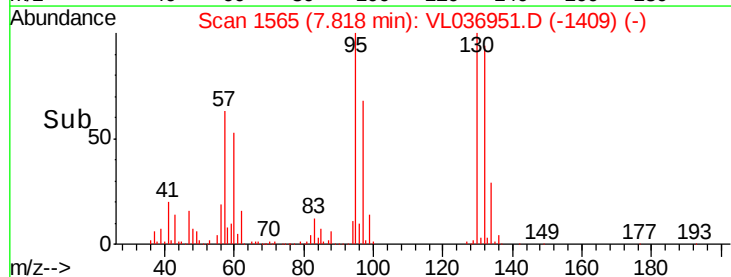
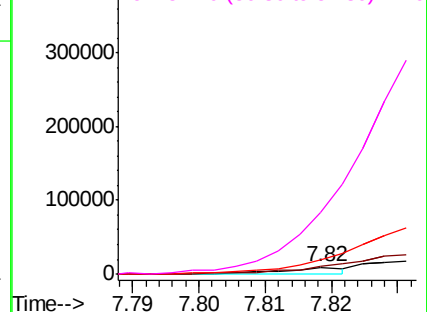


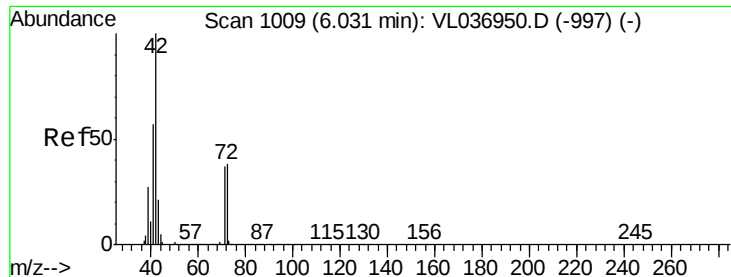
Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#41

Tetrahydrofuran

Concen: 2.504 ppbv

RT: 6.05 min Scan# 1015

Delta R.T. 0.02 min

Lab File: VL036951.D

Acq: 18 May 2021 2:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

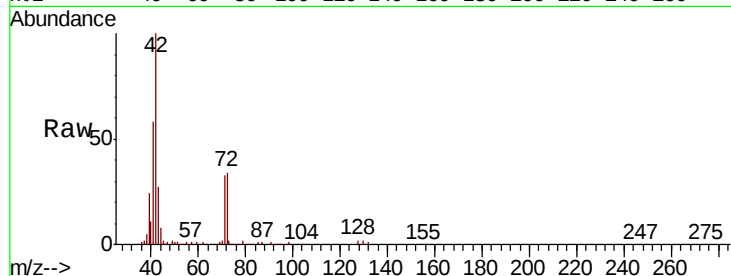
Tot Ion: 42 Resp: 156597

Ion Ratio Lower Upper

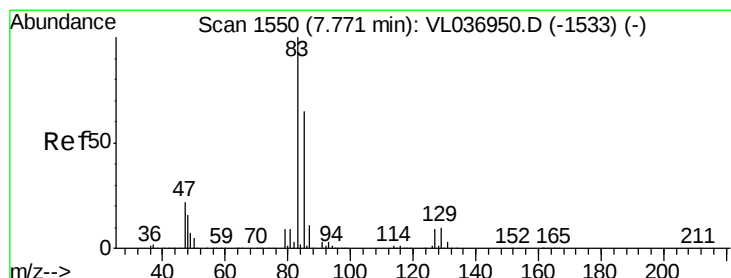
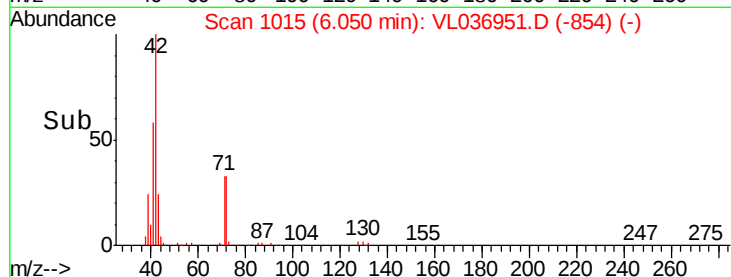
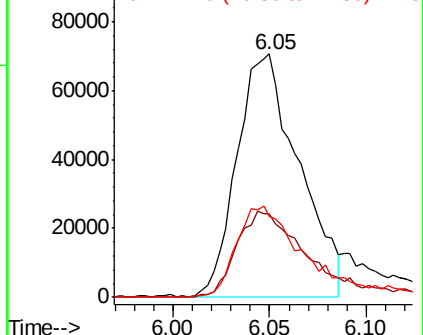
42 100

72 44.0 31.4 47.2

71 44.5 30.4 45.6



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: 2.021 ppbv

RT: 7.77 min Scan# 1550

Delta R.T. -0.00 min

Lab File: VL036951.D

Acq: 18 May 2021 2:39

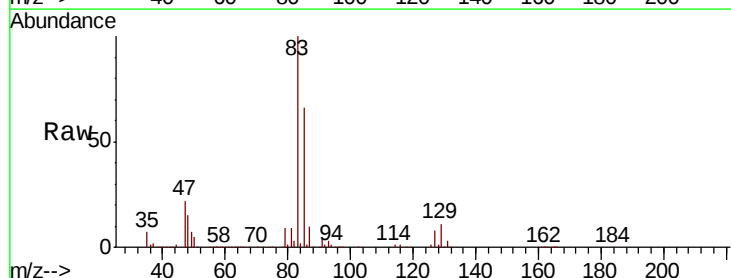
Tgt Ion: 83 Resp: 567821

Ion Ratio Lower Upper

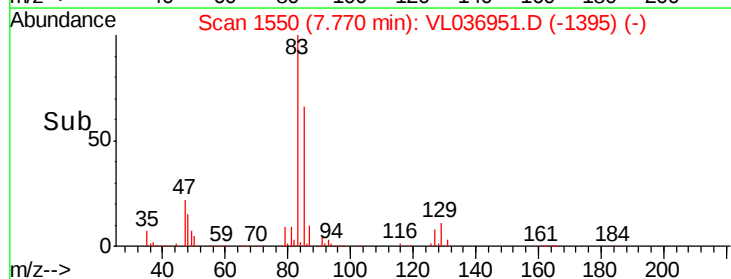
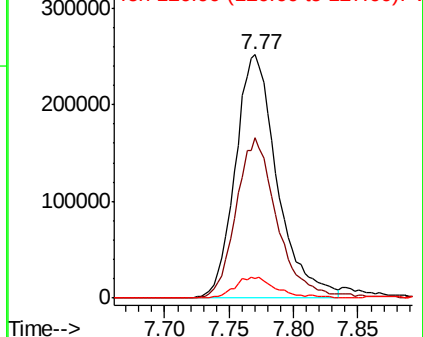
83 100

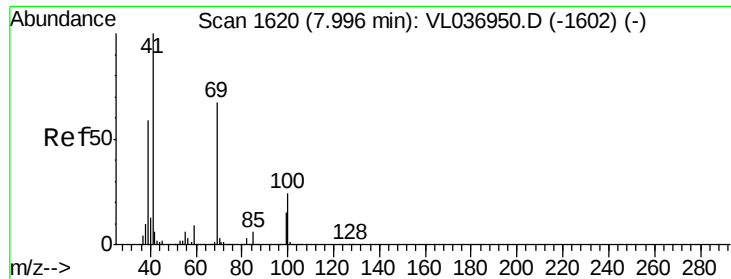
85 65.5 51.7 77.5

127 8.3 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): V

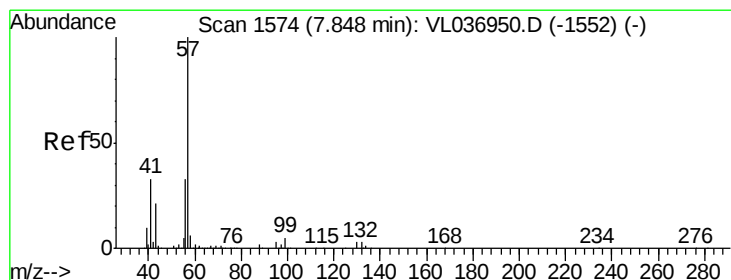
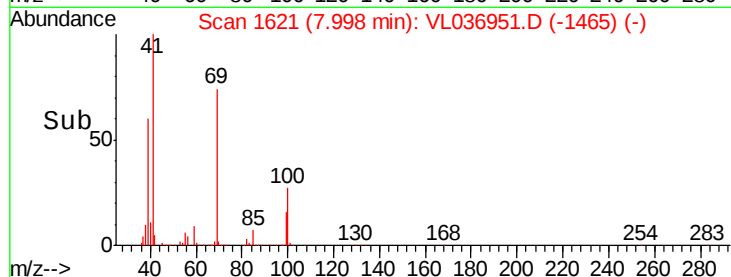
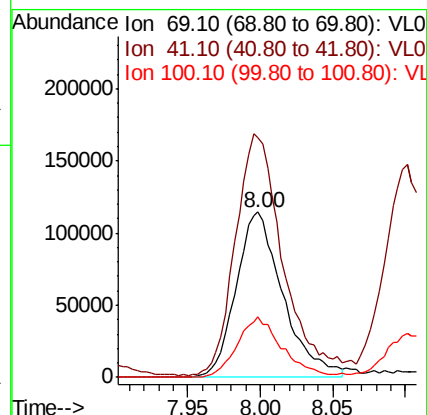
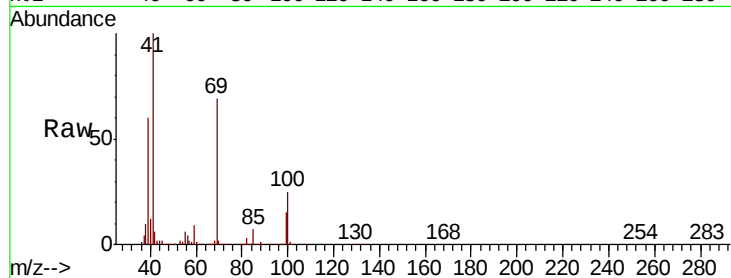




#43
Methvl Methacrylate
Concen: 2.744 ppbv
RT: 8.00 min Scan# 1621
Delta R.T. 0.00 min
Lab File: VL036951.D
Acq: 18 May 2021 2:39

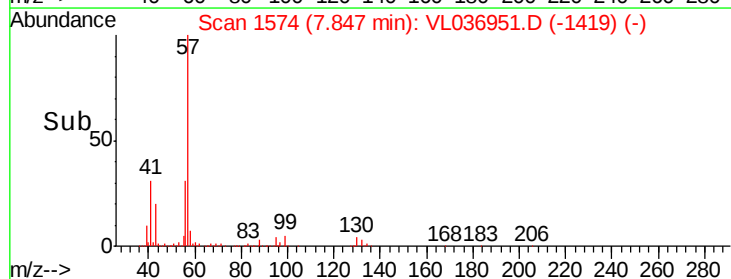
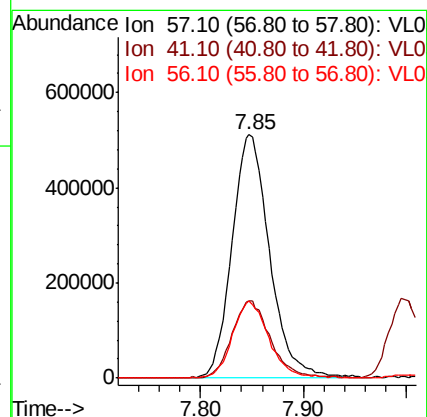
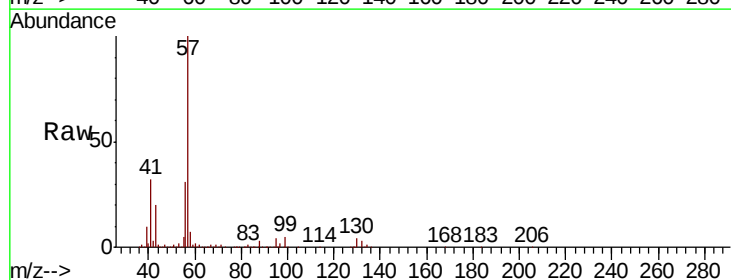
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

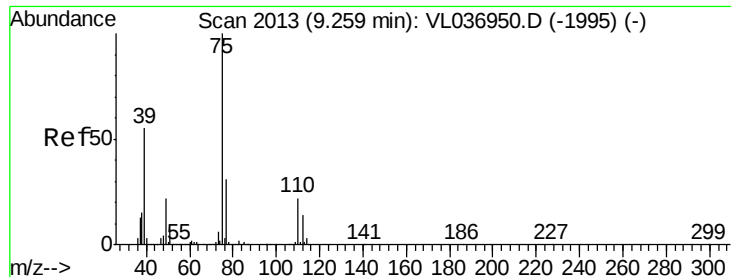
Tot Ion: 69 Resp: 256899
Ion Ratio Lower Upper
69 100
41 150.5 118.6 178.0
100 35.2 28.2 42.4



#44
2,2,4-Trimethylpentane
Concen: 2.265 ppbv
RT: 7.85 min Scan# 1574
Delta R.T. -0.00 min
Lab File: VL036951.D
Acq: 18 May 2021 2:39

Tgt Ion: 57 Resp: 1295076
Ion Ratio Lower Upper
57 100
41 32.5 27.0 40.4
56 31.1 25.4 38.2





#45

t-1,3-Dichloropropene

Concen: 2.246 ppbv

RT: 9.26 min Scan# 2012

Delta R.T. -0.00 min

Lab File: VL036951.D

Acq: 18 May 2021 2:39

Instrument :

MSVOA_L

ClientSampleId :

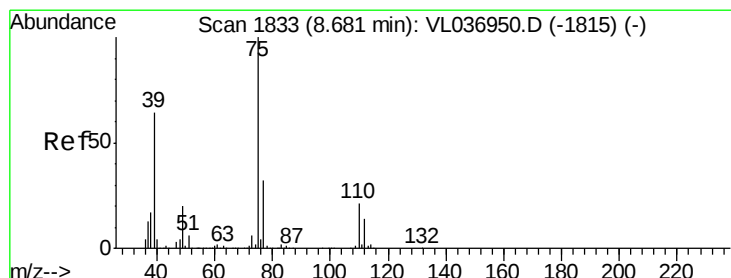
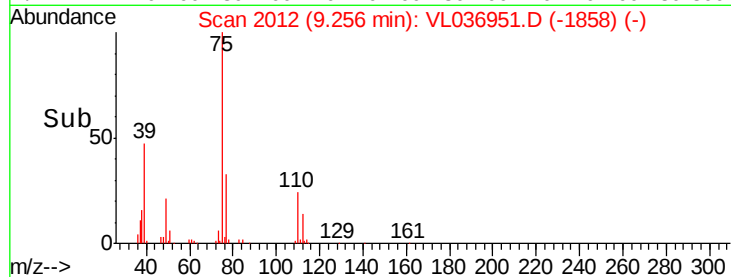
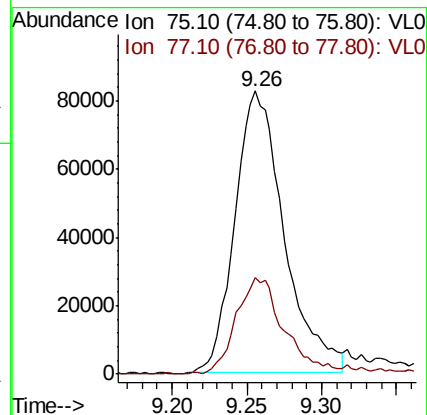
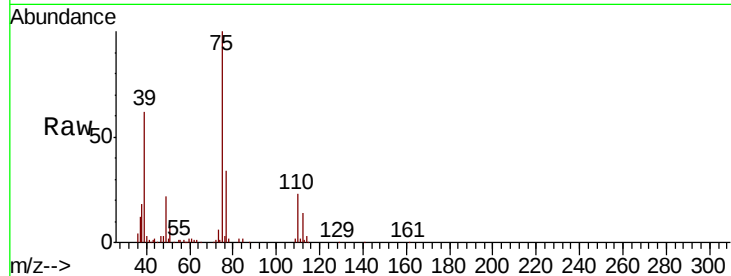
VSTDIC002

Tot Ion: 75 Resp: 189865

Ion Ratio Lower Upper

75 100

77 33.9 24.4 36.6



#46

cis-1,3-Dichloropropene

Concen: 2.243 ppbv

RT: 8.68 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VL036951.D

Acq: 18 May 2021 2:39

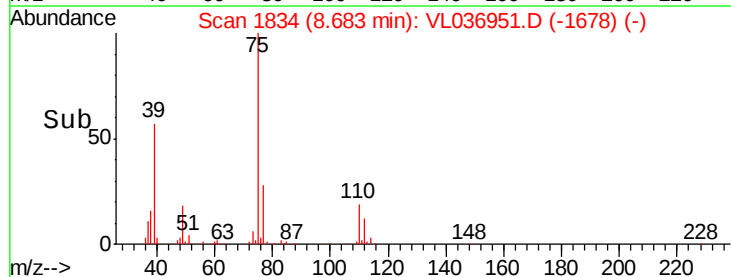
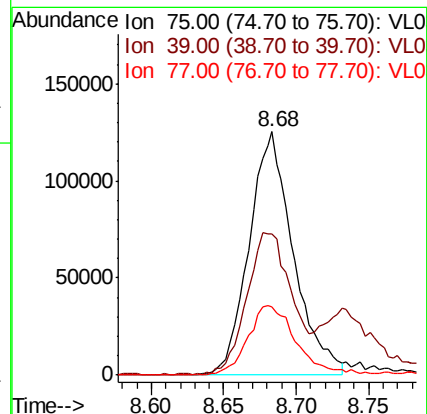
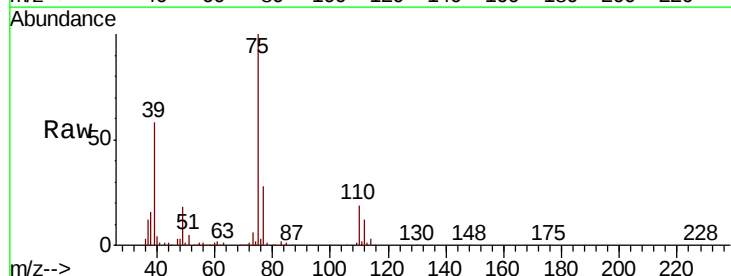
Tgt Ion: 75 Resp: 265510

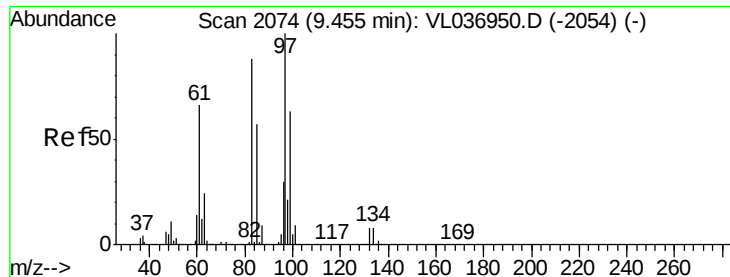
Ion Ratio Lower Upper

75 100

39 57.8 51.5 77.3

77 27.9 25.9 38.9





#47

1,1,2-Trichloroethane

Concen: 2.081 ppbv

RT: 9.45 min Scan# 2073

Delta R.T. -0.00 min

Lab File: VL036951.D

Acq: 18 May 2021 2:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 97 Resp: 300838

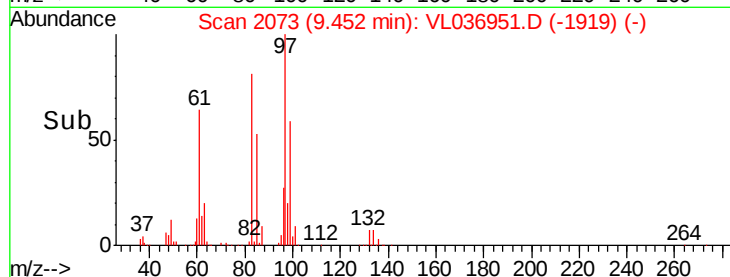
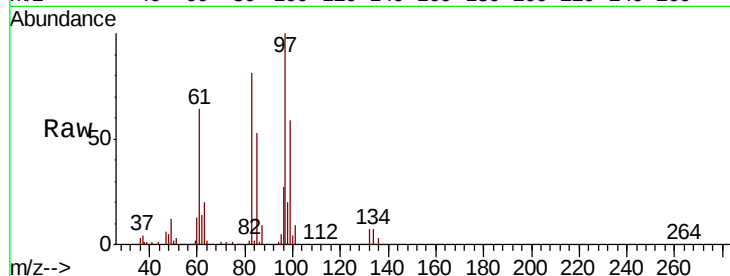
Ion Ratio Lower Upper

97 100

83 80.7 70.4 105.6

85 52.9 45.5 68.3

99 59.1 50.2 75.2

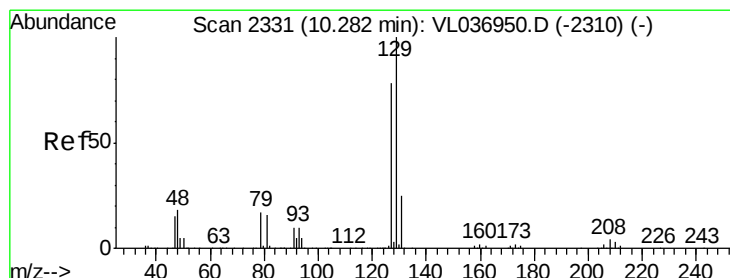
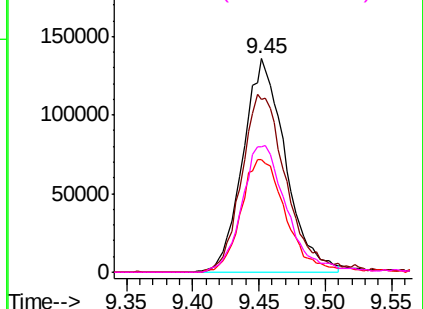


Abundance Ion 97.00 (96.70 to 97.70): VL0

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: 2.259 ppbv

RT: 10.28 min Scan# 2331

Delta R.T. -0.00 min

Lab File: VL036951.D

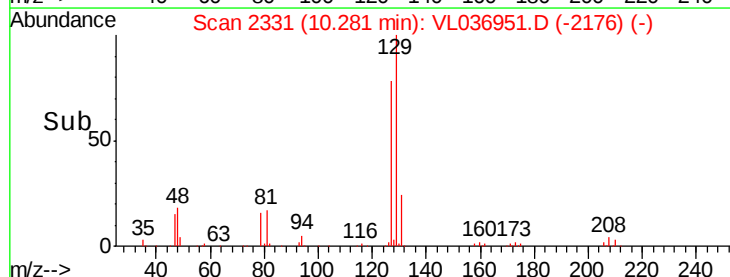
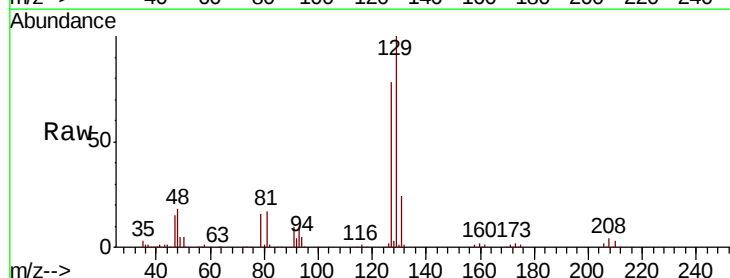
Acq: 18 May 2021 2:39

Tgt Ion: 129 Resp: 491188

Ion Ratio Lower Upper

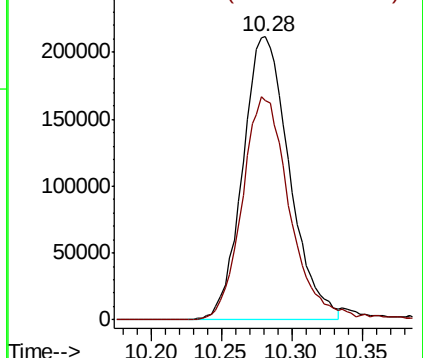
129 100

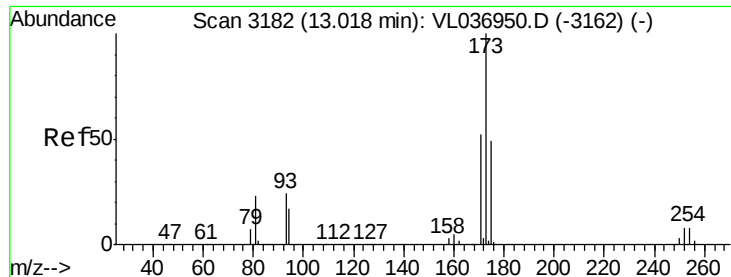
127 81.1 39.3 117.8



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 2.360 ppbv

RT: 13.01 min Scan# 3181

Delta R.T. -0.00 min

Lab File: VL036951.D

Acq: 18 May 2021 2:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

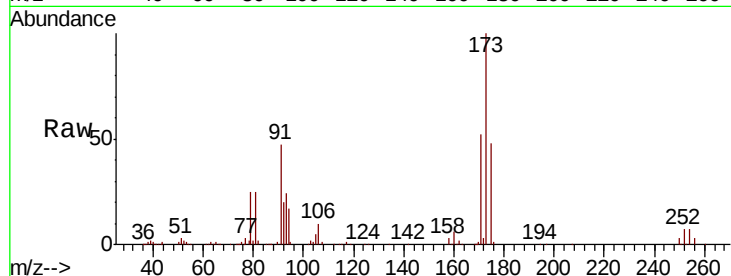
Tot Ion:173 Resp: 422351

Ion Ratio Lower Upper

173 100

175 49.5 40.4 60.6

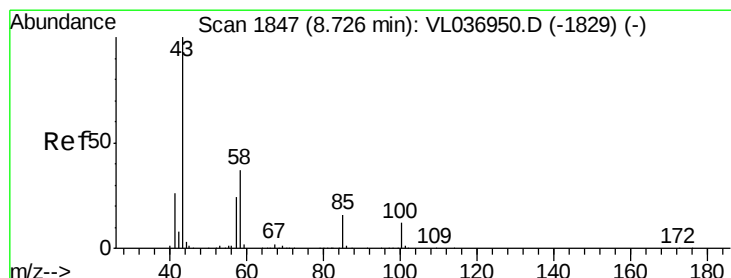
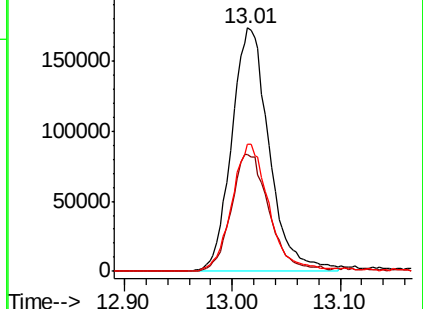
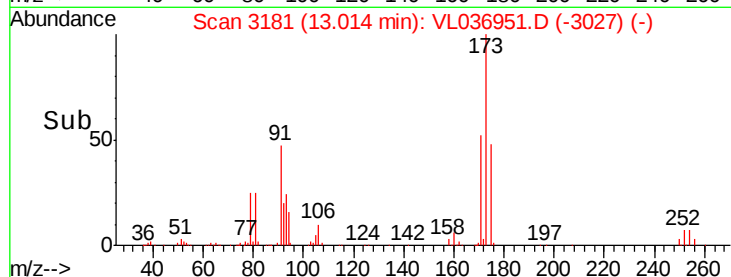
171 52.8 42.6 64.0



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: 2.516 ppbv

RT: 8.73 min Scan# 1849

Delta R.T. 0.01 min

Lab File: VL036951.D

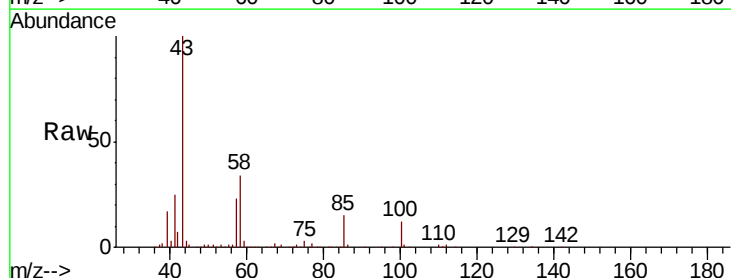
Acq: 18 May 2021 2:39

Tgt Ion: 43 Resp: 527434

Ion Ratio Lower Upper

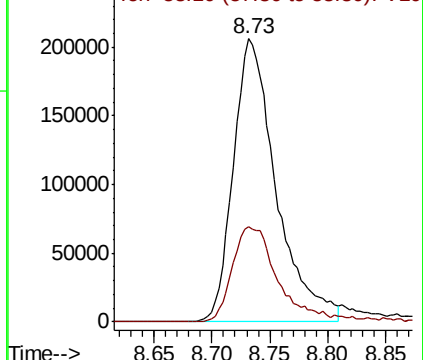
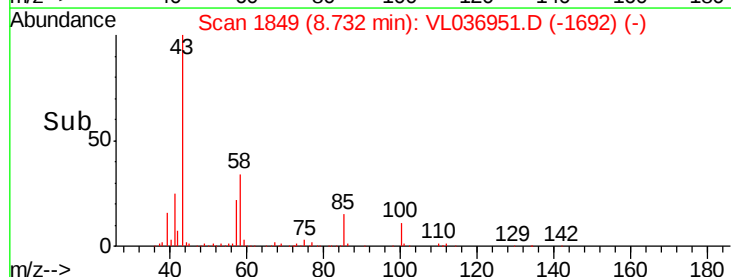
43 100

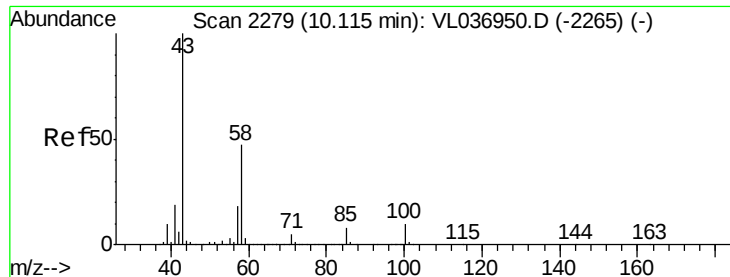
58 37.8 29.4 44.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 2.906 ppbv

RT: 10.13 min Scan# 2284

Delta R.T. 0.02 min

Lab File: VL036951.D

Acq: 18 May 2021 2:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

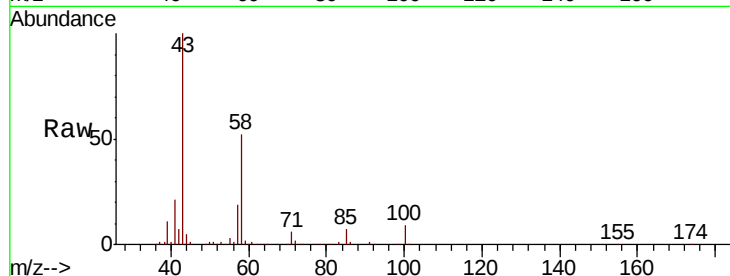
Tot Ion: 43 Resp: 259516

Ion Ratio Lower Upper

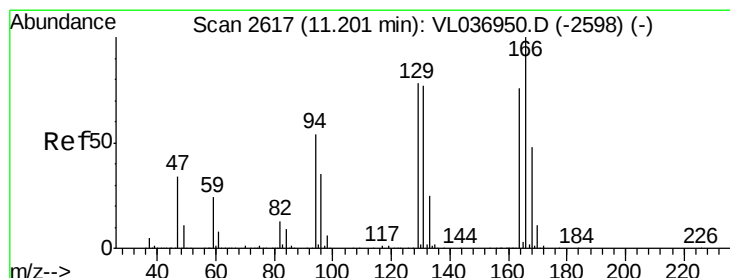
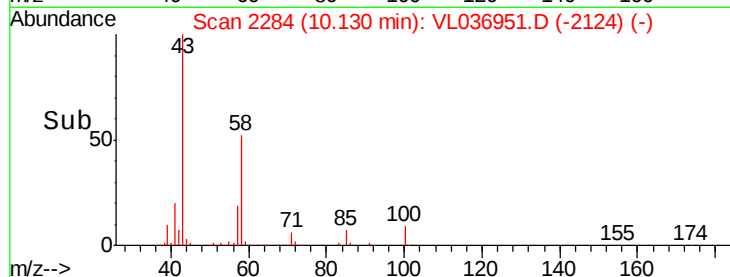
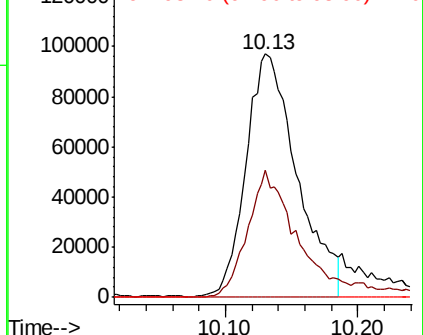
43 100

58 57.3 41.1 61.7

98 0.1 0.1 0.1



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



#52

Tetrachloroethene

Concen: 2.457 ppbv

RT: 11.20 min Scan# 2616

Delta R.T. -0.00 min

Lab File: VL036951.D

Acq: 18 May 2021 2:39

Tgt Ion: 164 Resp: 290478

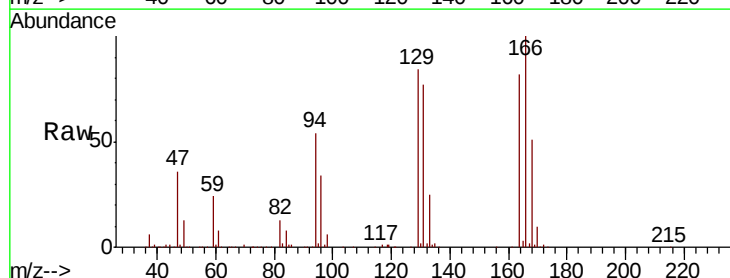
Ion Ratio Lower Upper

164 100

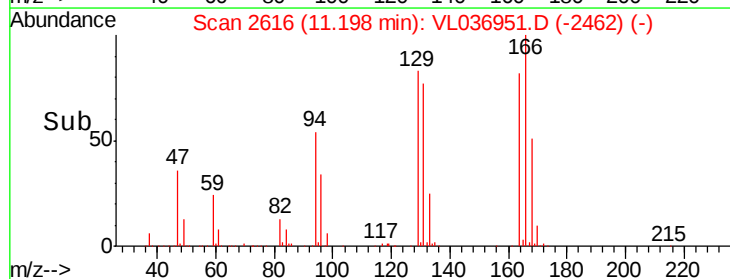
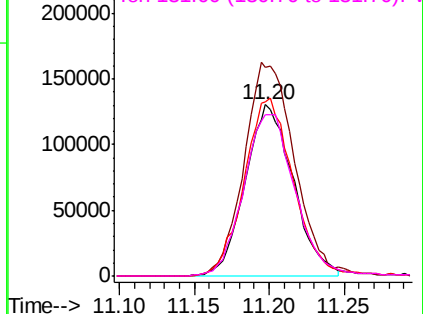
166 121.6 105.5 158.3

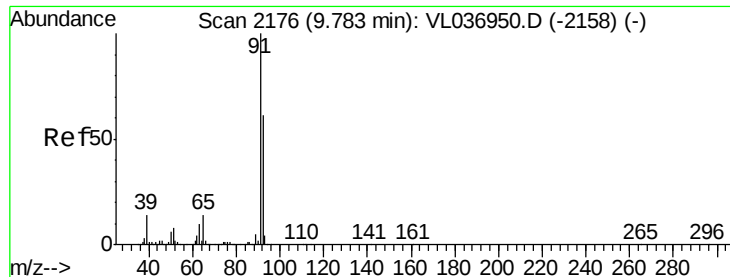
129 101.5 81.8 122.8

131 93.9 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: 2.774 ppbv

RT: 9.78 min Scan# 2176

Delta R.T. -0.00 min

Lab File: VL036951.D

Acq: 18 May 2021 2:39

Instrument :

MSVOA_L

ClientSampleId :

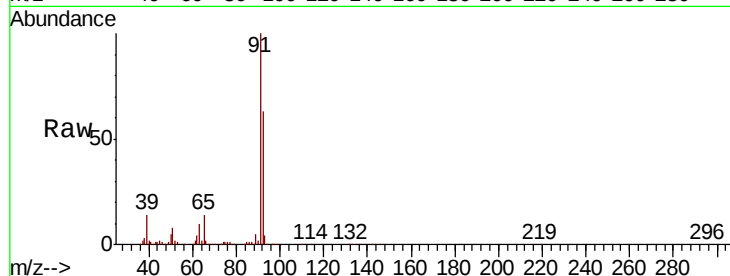
VSTDIC002

Tot Ion: 91 Resp: 890278

Ion Ratio Lower Upper

91 100

92 60.7 49.5 74.3



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

9.78

400000

300000

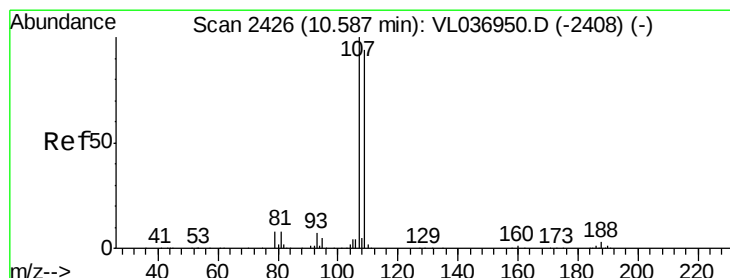
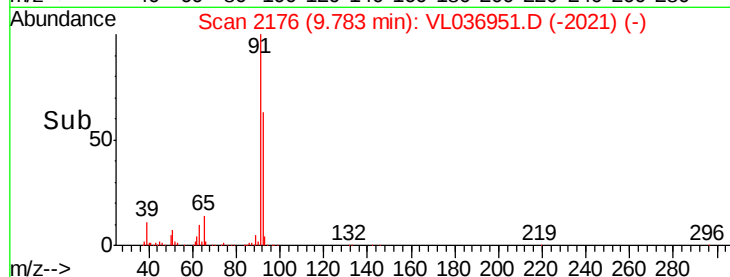
200000

100000

0

Time-->

9.70 9.80 9.90



#54

1,2-Dibromoethane

Concen: 2.266 ppbv

RT: 10.58 min Scan# 2425

Delta R.T. -0.00 min

Lab File: VL036951.D

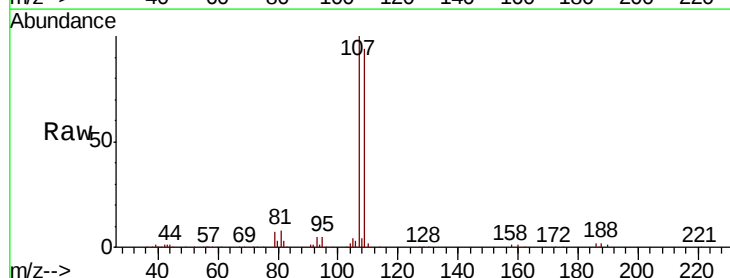
Acq: 18 May 2021 2:39

Tgt Ion: 107 Resp: 427701

Ion Ratio Lower Upper

107 100

109 93.8 75.0 112.4



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

10.58

200000

150000

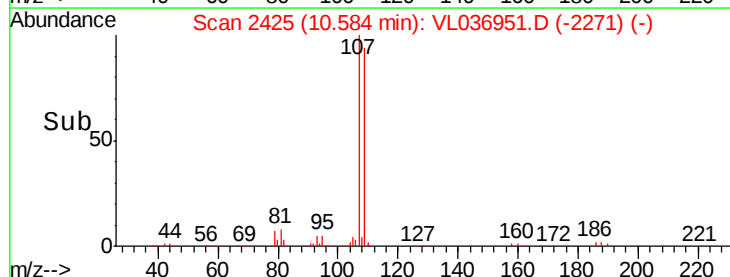
100000

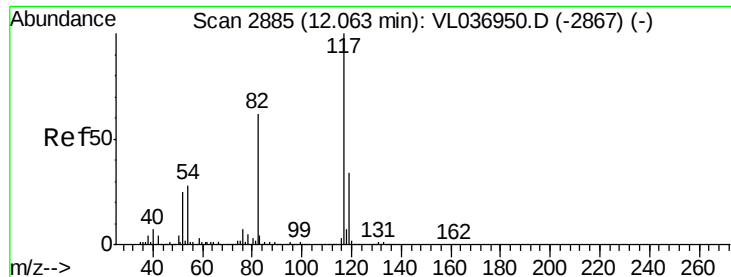
50000

0

Time-->

10.50 10.60





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.06 min Scan# 2885

Delta R.T. -0.00 min

Lab File: VL036951.D

Acq: 18 May 2021 2:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

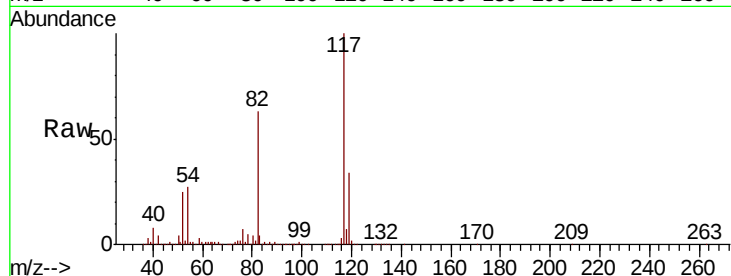
Tot Ion:117 Resp: 3959546

Ion Ratio Lower Upper

117 100

82 60.2 52.6 79.0

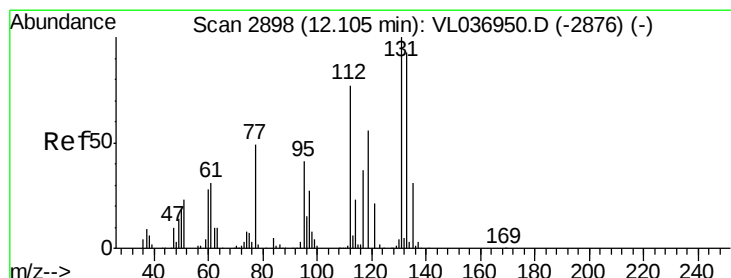
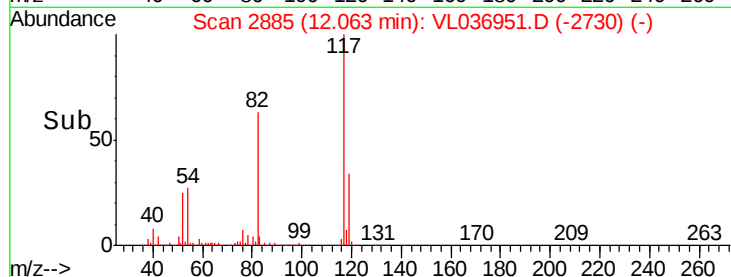
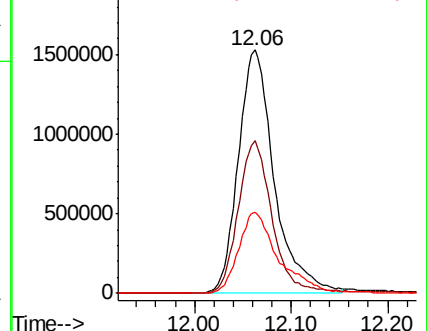
119 37.7 46.6 70.0#



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: 1.962 ppbv

RT: 12.10 min Scan# 2898

Delta R.T. -0.00 min

Lab File: VL036951.D

Acq: 18 May 2021 2:39

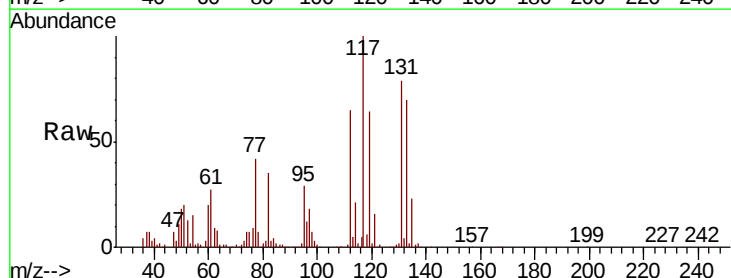
Tgt Ion:131 Resp: 357195

Ion Ratio Lower Upper

131 100

133 95.7 76.9 115.3

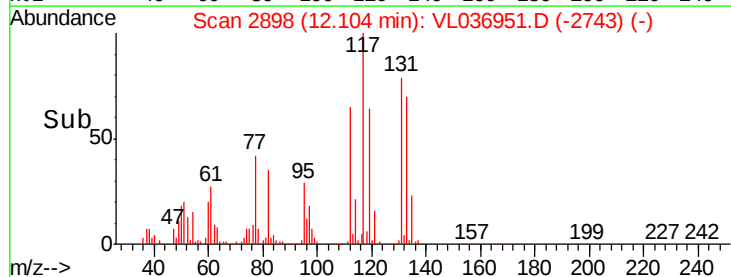
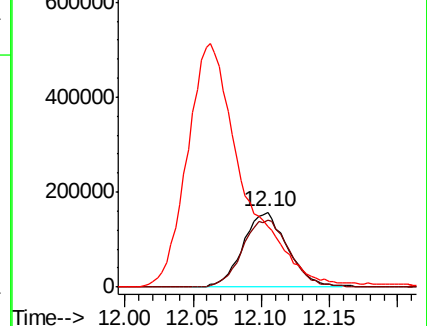
119 417.9 120.2 180.4#

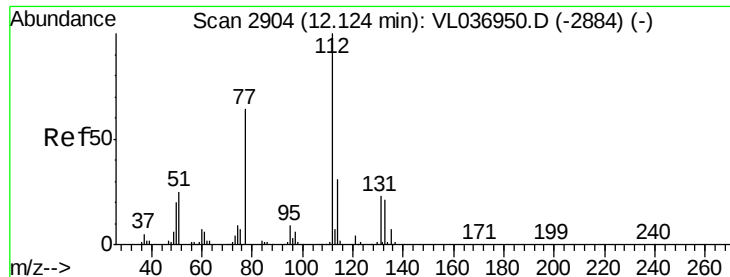


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V

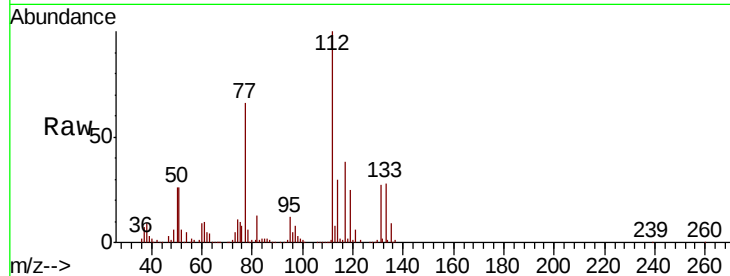




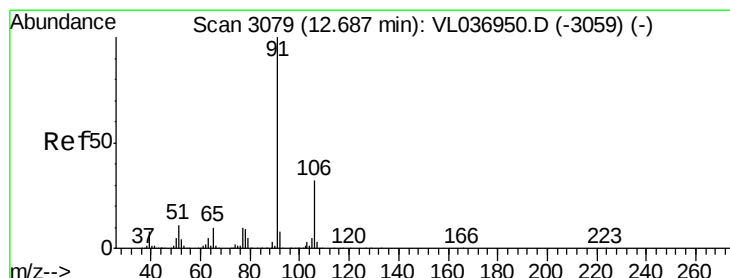
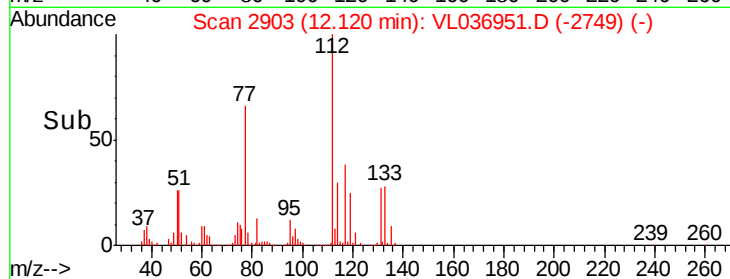
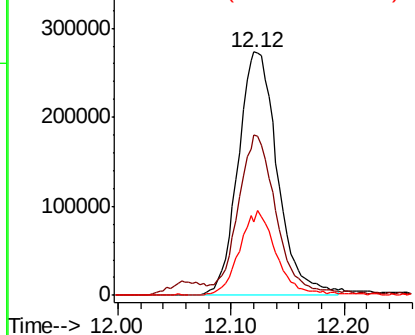
#57
Chlorobenzene
Concen: 1.978 ppbv
RT: 12.12 min Scan# 2903
Delta R.T. -0.00 min
Lab File: VL036951.D
Acq: 18 May 2021 2:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion:112 Resp: 661068
Ion Ratio Lower Upper
112 100
77 64.2 51.0 76.6
114 30.0 28.3 34.5

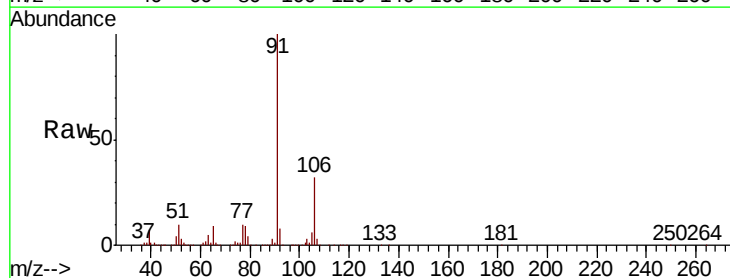


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 77.10 (76.80 to 77.80): VL0
Ion 114.10 (113.80 to 114.80): V

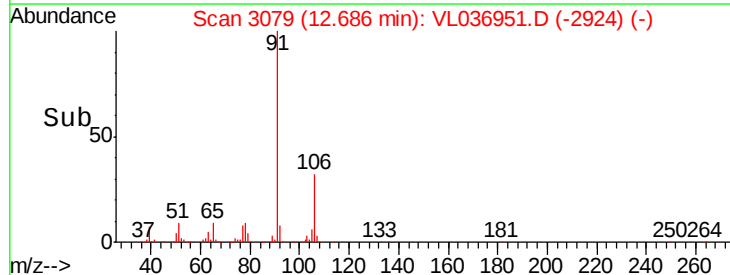
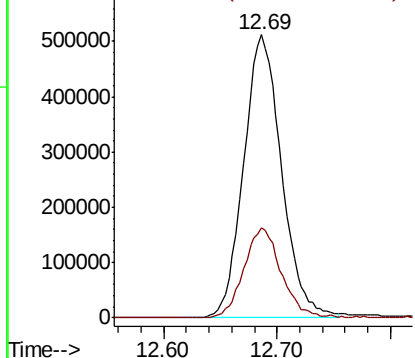


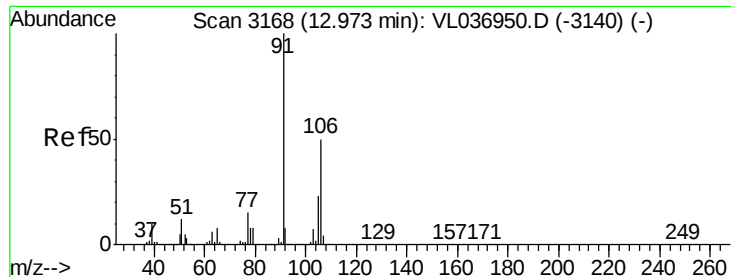
#58
Ethyl Benzene
Concen: 2.533 ppbv
RT: 12.69 min Scan# 3079
Delta R.T. -0.00 min
Lab File: VL036951.D
Acq: 18 May 2021 2:39

Tgt Ion: 91 Resp: 1192133
Ion Ratio Lower Upper
91 100
106 31.8 25.6 38.4



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V

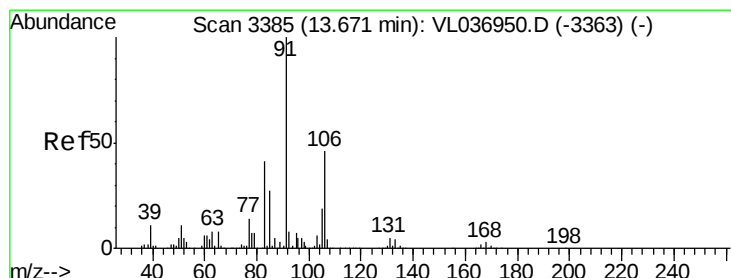
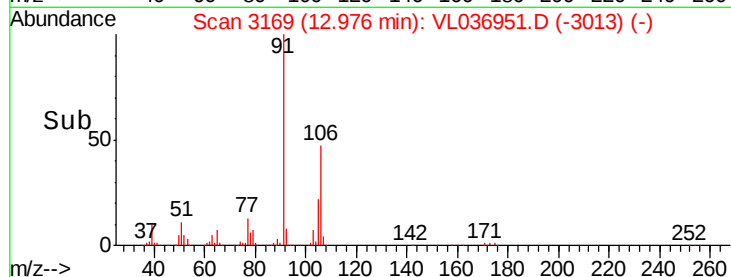
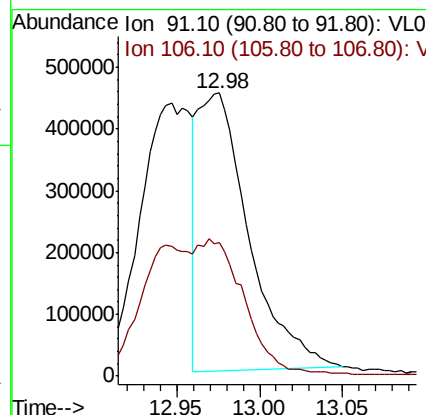
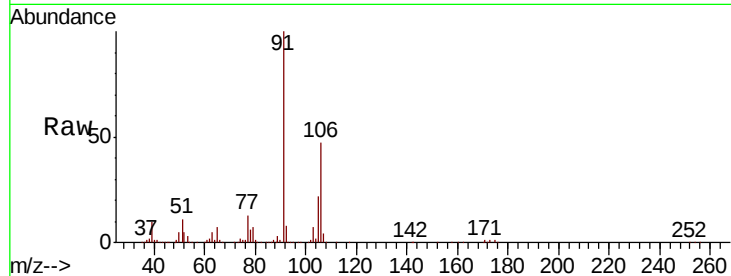




#59
m/p-Xylene
Concen: 2.161 ppbv
RT: 12.98 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VL036951.D
Acq: 18 May 2021 2:39

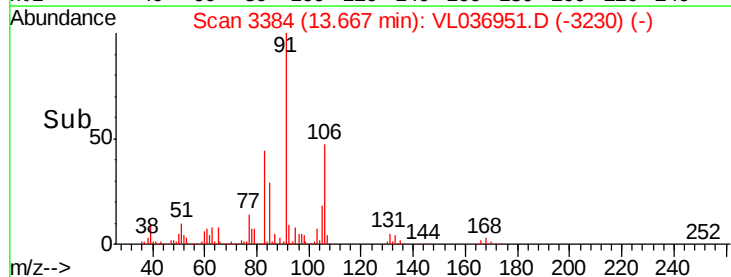
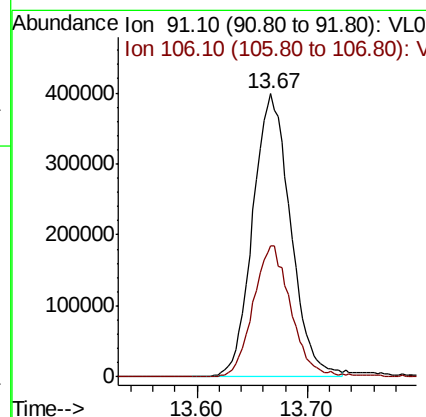
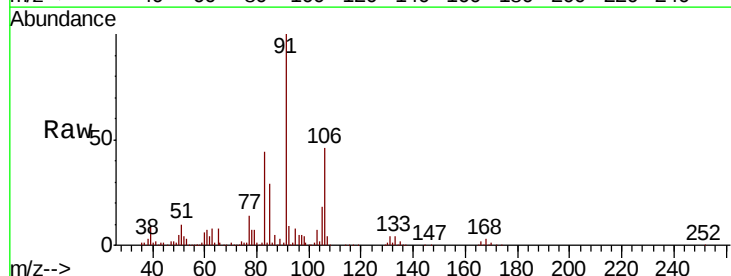
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

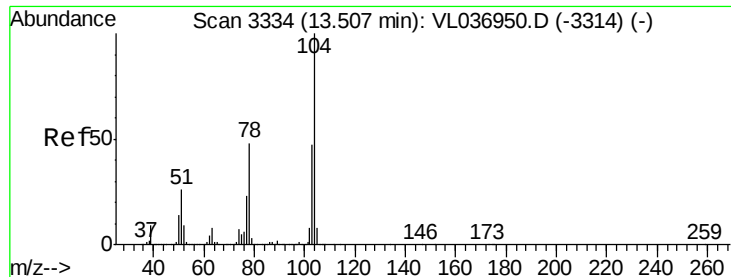
Tot Ion: 91 Resp: 955921
Ion Ratio Lower Upper
91 100
106 95.4 37.4 56.2#



#60
o-Xylene
Concen: 2.201 ppbv
RT: 13.67 min Scan# 3384
Delta R.T. -0.00 min
Lab File: VL036951.D
Acq: 18 May 2021 2:39

Tgt Ion: 91 Resp: 941802
Ion Ratio Lower Upper
91 100
106 46.8 23.4 70.3





#61

Stvrene

Concen: 3.040 ppbv

RT: 13.50 min Scan# 3333

Delta R.T. -0.00 min

Lab File: VL036951.D

Acq: 18 May 2021 2:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

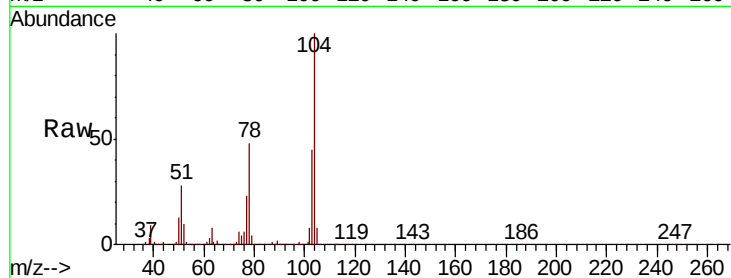
Tot Ion:104 Resp: 534138

Ion Ratio Lower Upper

104 100

78 48.3 39.0 58.6

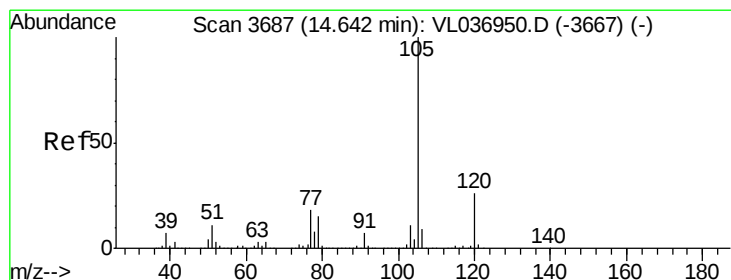
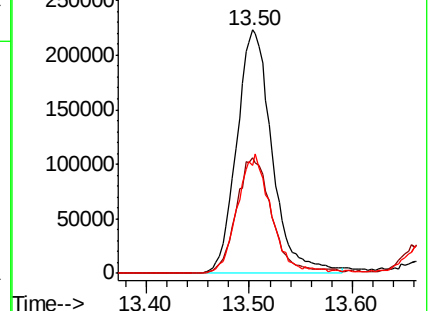
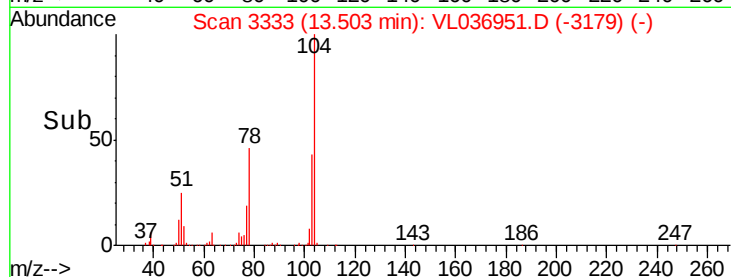
103 47.3 38.0 57.0



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 2.354 ppbv

RT: 14.64 min Scan# 3688

Delta R.T. 0.00 min

Lab File: VL036951.D

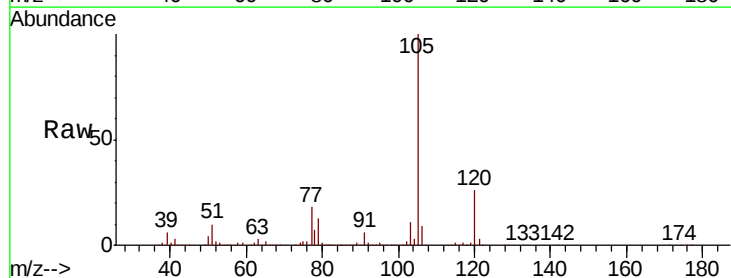
Acq: 18 May 2021 2:39

Tgt Ion:105 Resp: 1373297

Ion Ratio Lower Upper

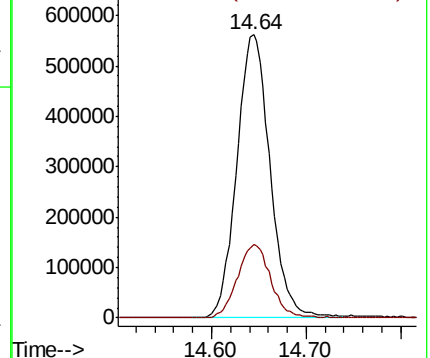
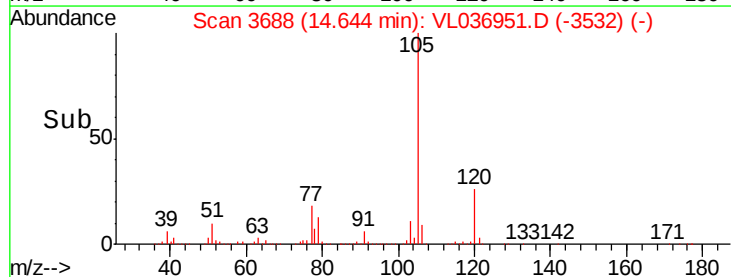
105 100

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: 1.577 ppbv

RT: 13.65 min Scan# 3380

Delta R.T. -0.00 min

Lab File: VL036951.D

Acq: 18 May 2021 2:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

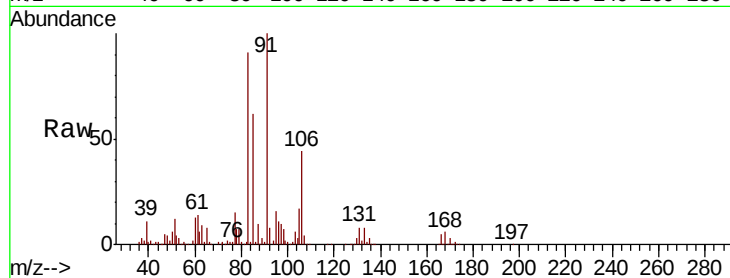
Tot Ion: 83 Resp: 637626

Ion Ratio Lower Upper

83 100

131 10.3 5.0 15.0

85 65.9 32.9 98.6



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

300000

200000

100000

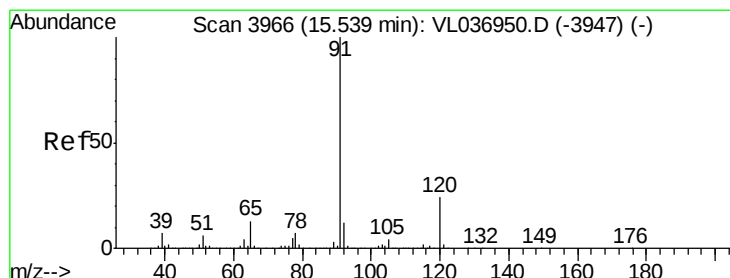
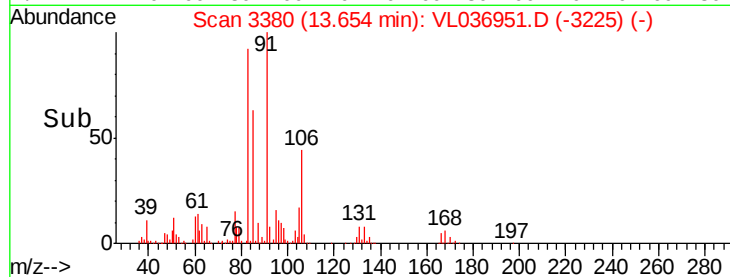
0

13.65

13.60

13.70

Time-->



#64

n-propylbenzene

Concen: 2.448 ppbv

RT: 15.54 min Scan# 3965

Delta R.T. -0.00 min

Lab File: VL036951.D

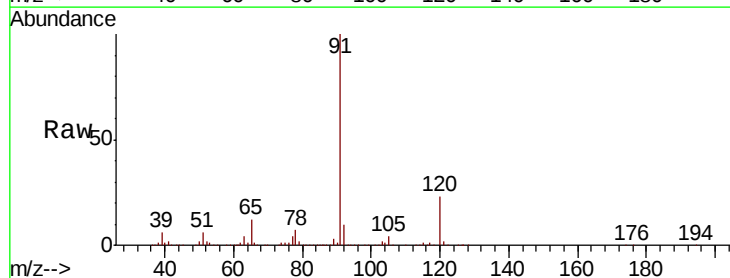
Acq: 18 May 2021 2:39

Tgt Ion: 120 Resp: 353489

Ion Ratio Lower Upper

120 100

91 465.4 343.8 515.6



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0

800000

600000

400000

200000

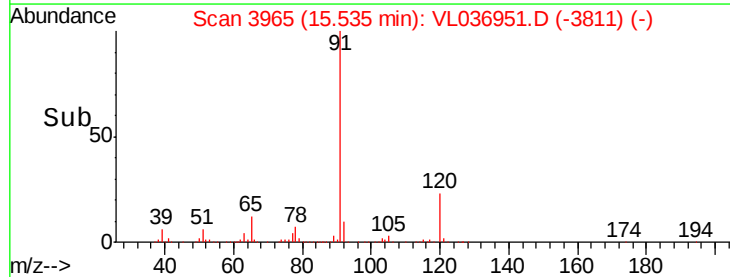
0

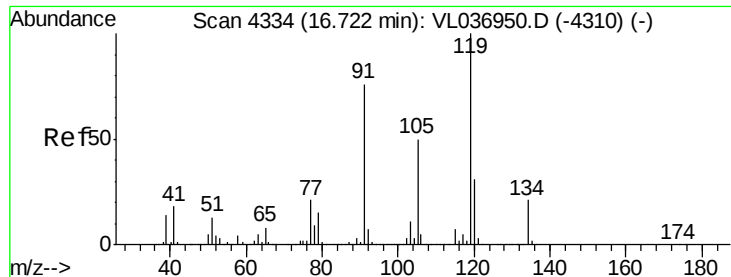
15.54

15.50

15.60

Time-->

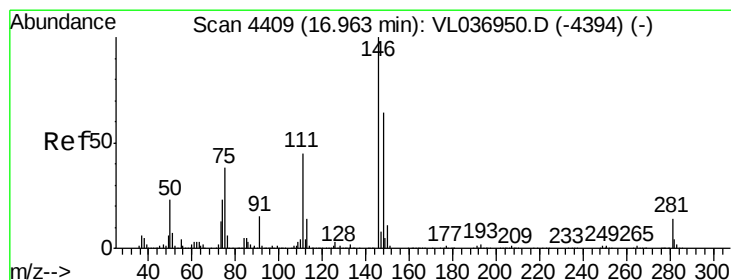
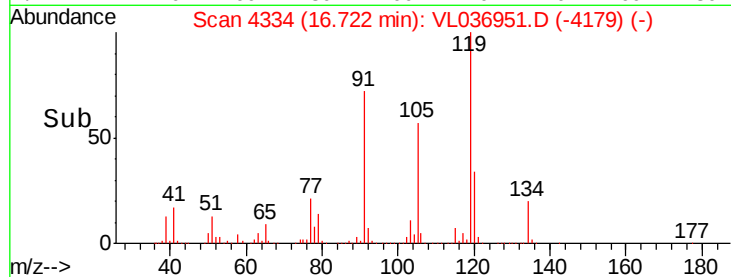
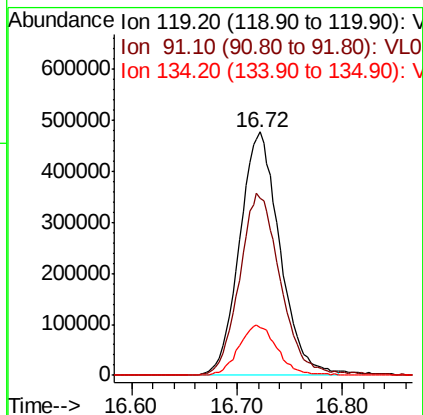
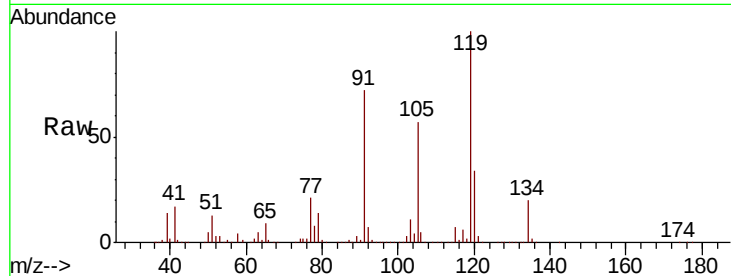




#65
tert-Butylbenzene
Concen: 2.441 ppbv
RT: 16.72 min Scan# 4334
Delta R.T. -0.00 min
Lab File: VL036951.D
Acq: 18 May 2021 2:39

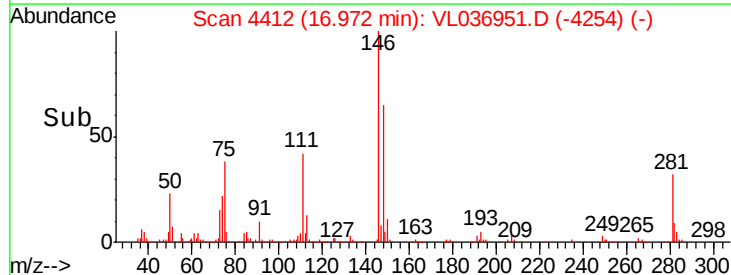
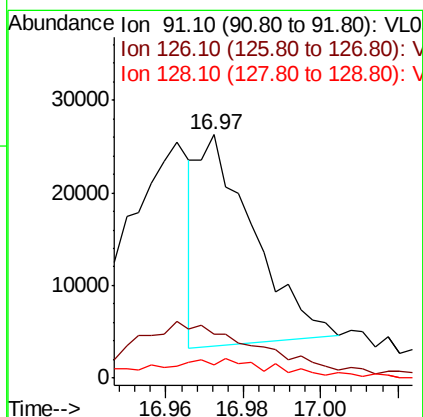
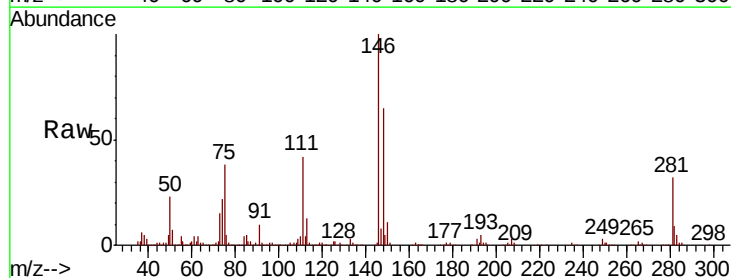
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

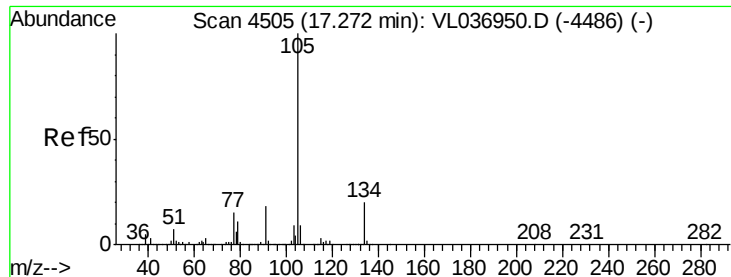
Tot Ion:119 Resp: 1263130
Ion Ratio Lower Upper
119 100
91 76.2 61.9 92.9
134 20.1 16.2 24.4



#66
Benzyl Chloride
Concen: 0.480 ppbv
RT: 16.97 min Scan# 4412
Delta R.T. 0.01 min
Lab File: VL036951.D
Acq: 18 May 2021 2:39

Tgt Ion: 91 Resp: 22594
Ion Ratio Lower Upper
91 100
126 0.0 16.5 24.7#
128 22.3 5.5 8.3#





#67

sec-Butylbenzene

Concen: 2.342 ppbv

RT: 17.27 min Scan# 4505

Delta R.T. -0.00 min

Lab File: VL036951.D

Acq: 18 May 2021 2:39

Instrument :

MSVOA_L

ClientSampleId :

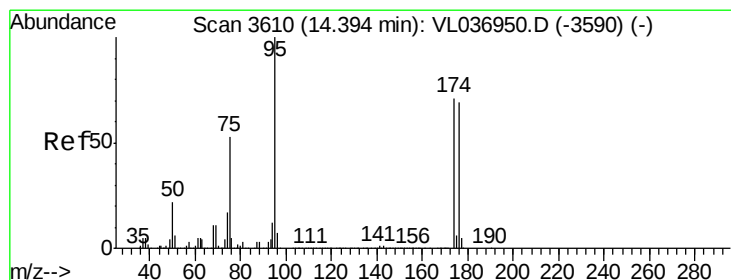
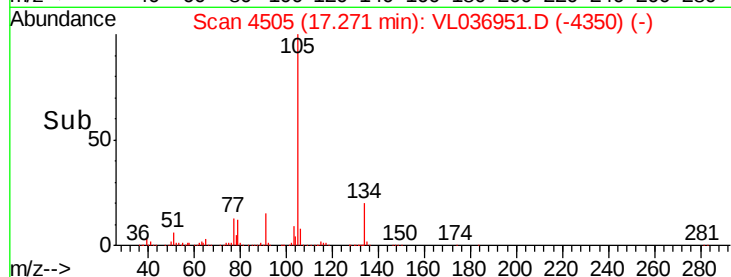
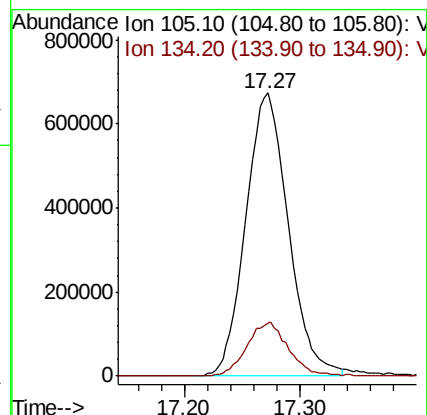
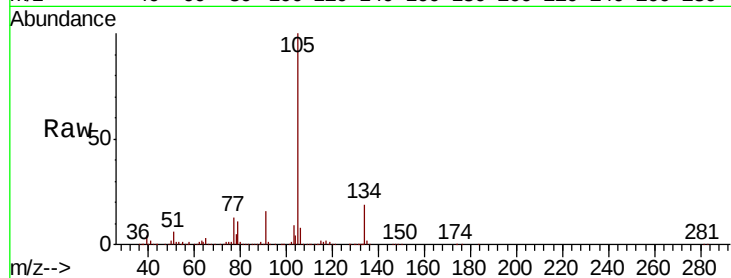
VSTDIC002

Tot Ion:105 Resp: 1711856

Ion Ratio Lower Upper

105 100

134 18.9 15.6 23.4



#68

1-Bromo-4-Fluorobenzene

Concen: 9.439 ppbv

RT: 14.39 min Scan# 3609

Delta R.T. -0.00 min

Lab File: VL036951.D

Acq: 18 May 2021 2:39

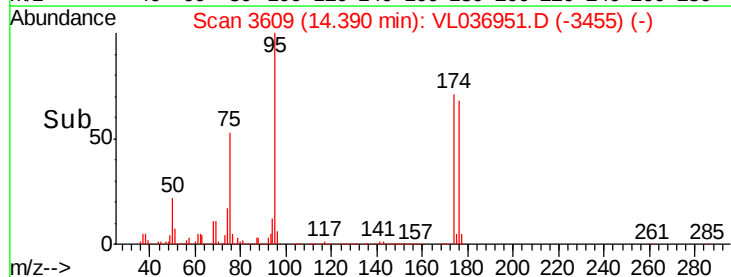
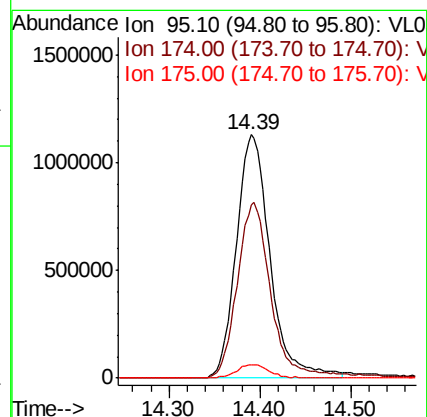
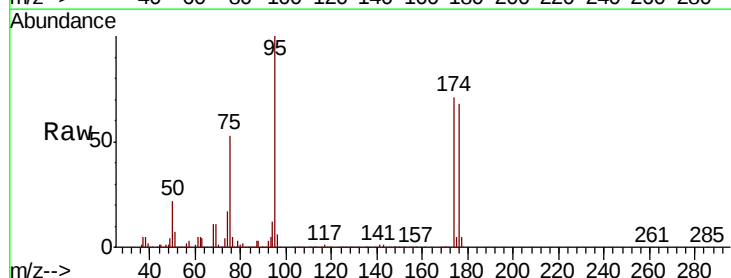
Tgt Ion: 95 Resp: 2914201

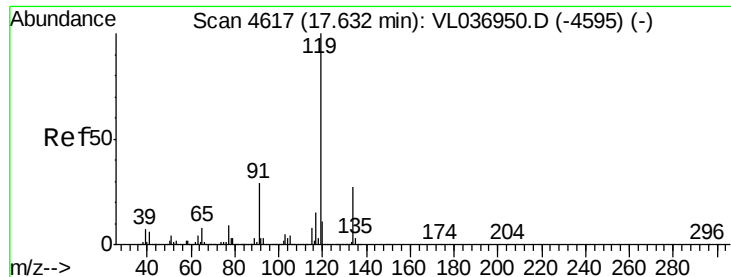
Ion Ratio Lower Upper

95 100

174 73.8 58.4 87.6

175 5.6 4.4 6.6





#69

p-Isopropyltoluene

Concen: 2.665 ppbv

RT: 17.63 min Scan# 4617

Delta R.T. -0.00 min

Lab File: VL036951.D

Acq: 18 May 2021 2:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

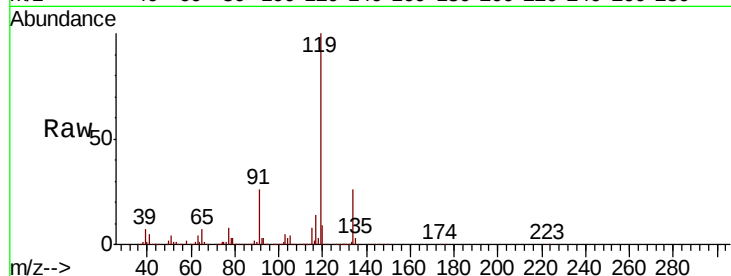
Tot Ion:119 Resp: 1482637

Ion Ratio Lower Upper

119 100

134 26.3 21.2 31.8

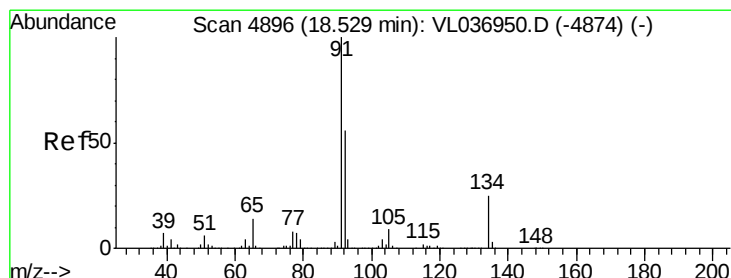
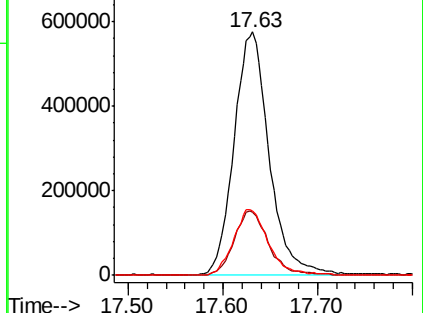
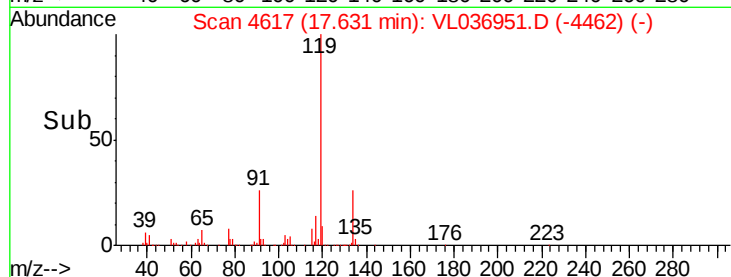
91 26.9 22.2 33.4



Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): V



#70

n-Butylbenzene

Concen: 2.501 ppbv

RT: 18.53 min Scan# 4896

Delta R.T. -0.00 min

Lab File: VL036951.D

Acq: 18 May 2021 2:39

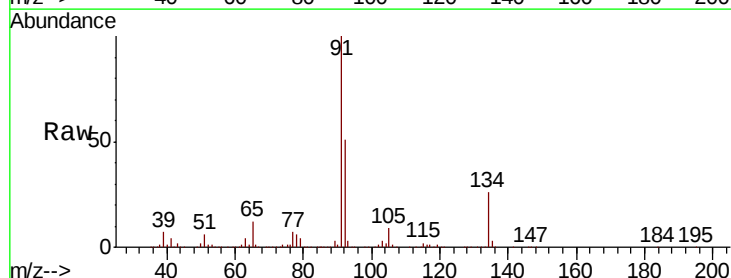
Tgt Ion: 91 Resp: 1394455

Ion Ratio Lower Upper

91 100

92 54.0 44.6 66.8

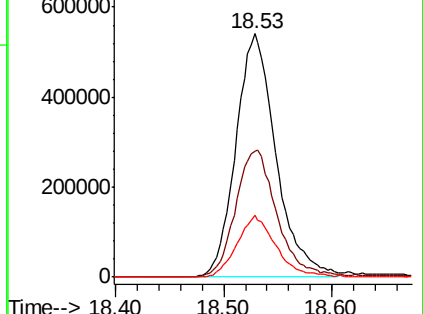
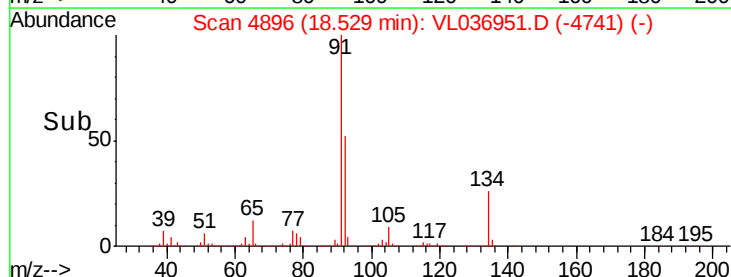
134 25.3 20.2 30.2

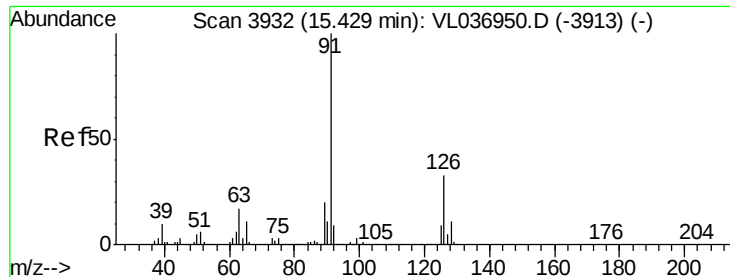


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

Ion 134.20 (133.90 to 134.90): V

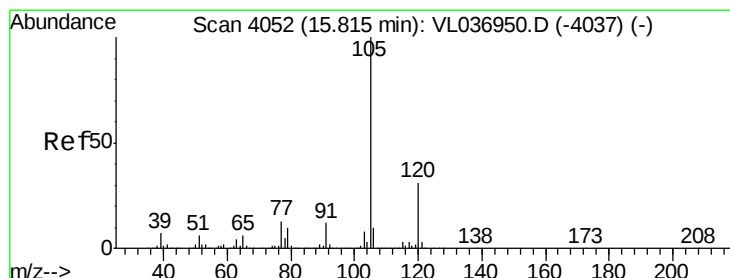
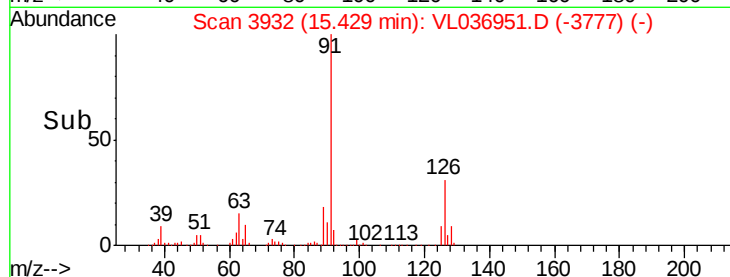
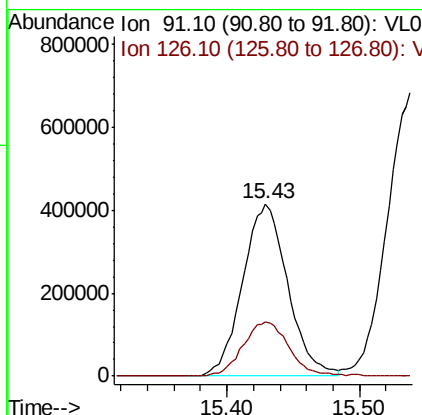
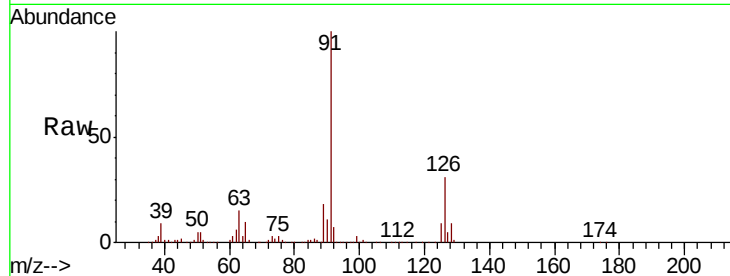




#71
 2-Chlorotoluene
 Concen: 2.351 ppbv
 RT: 15.43 min Scan# 3932
 Delta R.T. -0.00 min
 Lab File: VL036951.D
 Acq: 18 May 2021 2:39

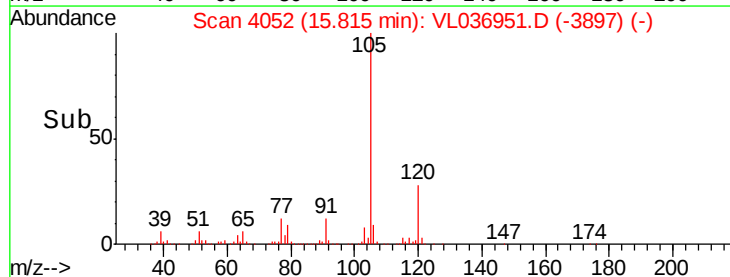
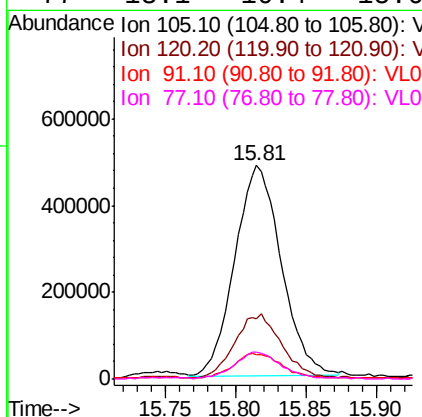
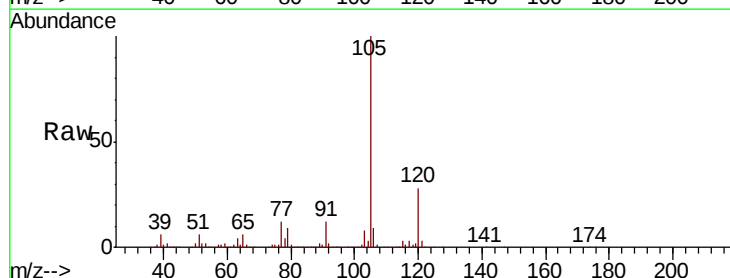
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

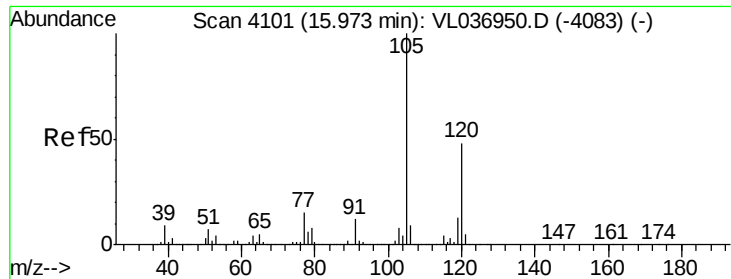
Tot Ion: 91 Resp: 980657
 Ion Ratio Lower Upper
 91 100
 126 33.4 13.1 52.5



#72
 4-Ethyltoluene
 Concen: 2.527 ppbv
 RT: 15.81 min Scan# 4052
 Delta R.T. -0.00 min
 Lab File: VL036951.D
 Acq: 18 May 2021 2:39

Tgt Ion:105 Resp: 1120181
 Ion Ratio Lower Upper
 105 100
 120 31.5 24.6 37.0
 91 13.9 9.8 14.6
 77 13.1 10.4 15.6





#73

1,3,5-Trimethylbenzene

Concen: 2.429 ppbv

RT: 15.98 min Scan# 4102

Delta R.T. 0.00 min

Lab File: VL036951.D

Acq: 18 May 2021 2:39

Instrument :

MSVOA_L

ClientSampleId :

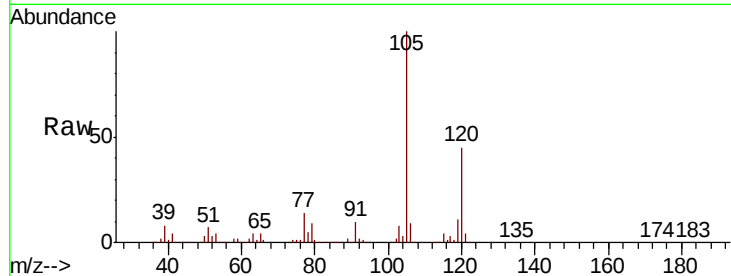
VSTDIC002

Tot Ion:105 Resp: 1052132

Ion Ratio Lower Upper

105 100

120 44.8 38.6 58.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

15.98

400000

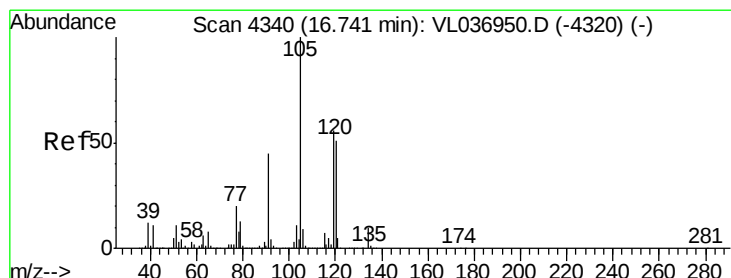
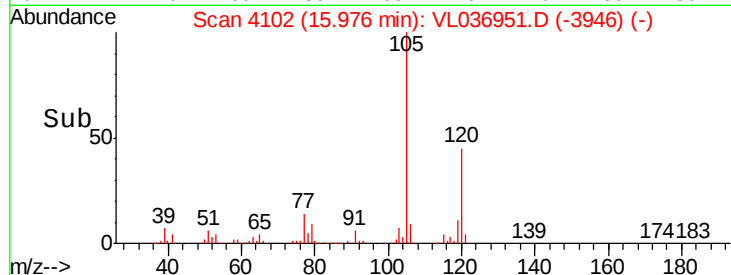
300000

200000

100000

0

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 2.377 ppbv

RT: 16.74 min Scan# 4339

Delta R.T. -0.00 min

Lab File: VL036951.D

Acq: 18 May 2021 2:39

Tgt Ion:105 Resp: 1130269

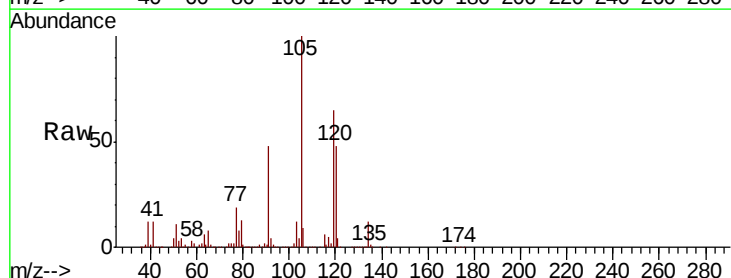
Ion Ratio Lower Upper

105 100

120 47.3 40.6 61.0

91 47.2 37.4 56.0

77 19.0 16.2 24.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

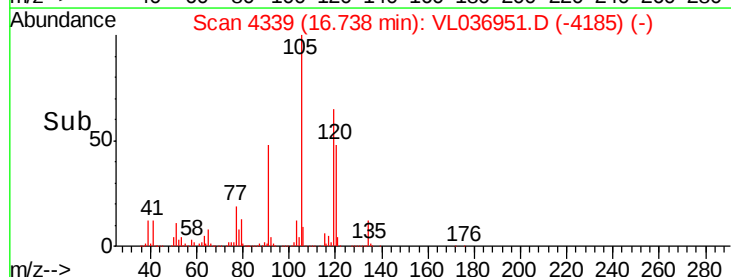
600000

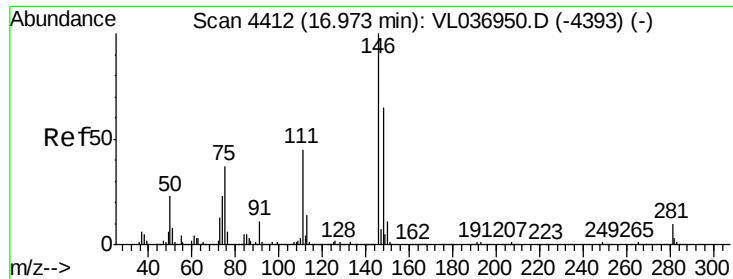
400000

200000

0

Time-->

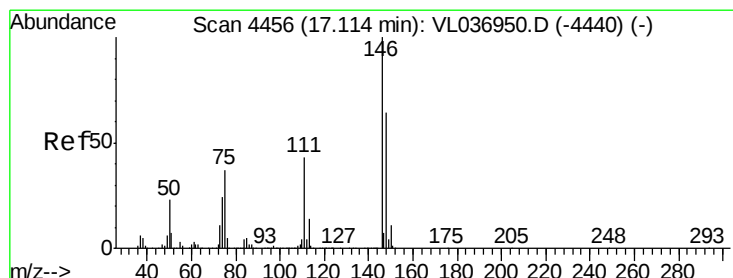
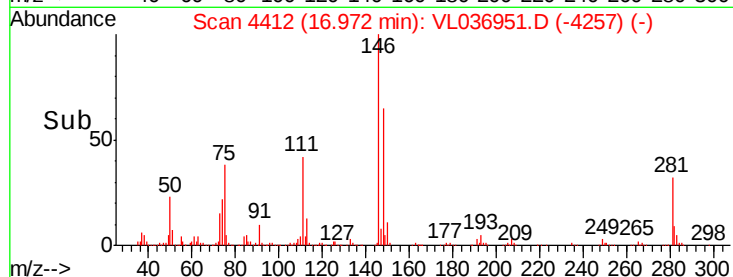
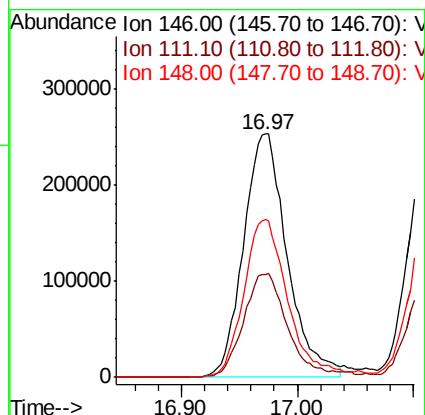
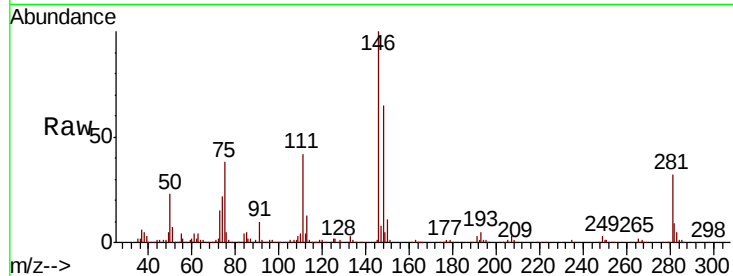




#75
 1,3-Dichlorobenzene
 Concen: 2.151 ppbv
 RT: 16.97 min Scan# 4412
 Delta R.T. -0.00 min
 Lab File: VL036951.D
 Acq: 18 May 2021 2:39

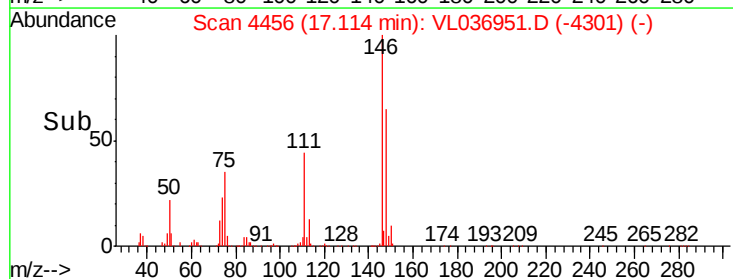
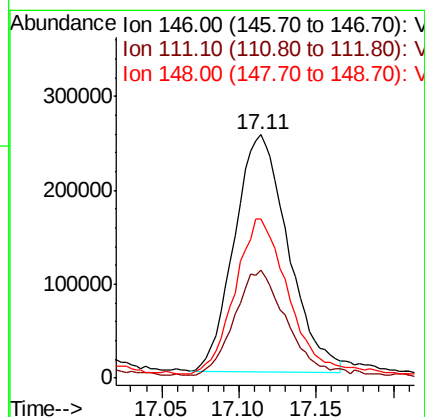
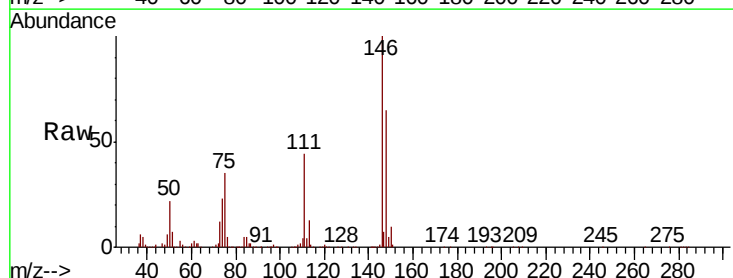
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

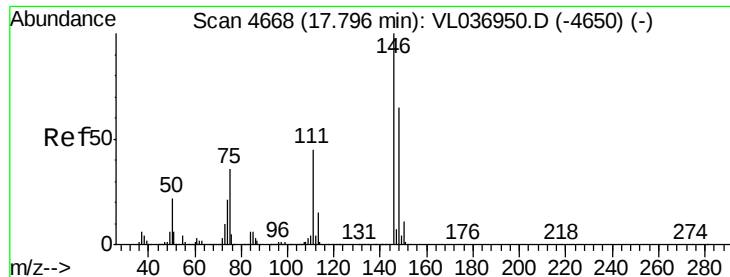
Tot Ion	Ratio	Lower	Upper
146	100		
111	43.5	22.2	66.6
148	65.8	32.3	96.8



#76
 1,4-Dichlorobenzene
 Concen: 2.216 ppbv
 RT: 17.11 min Scan# 4456
 Delta R.T. -0.00 min
 Lab File: VL036951.D
 Acq: 18 May 2021 2:39

Tgt Ion	Ratio	Lower	Upper
146	100		
111	47.9	22.6	67.7
148	70.2	33.5	100.5

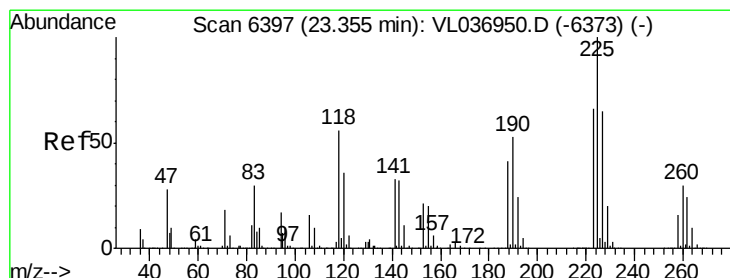
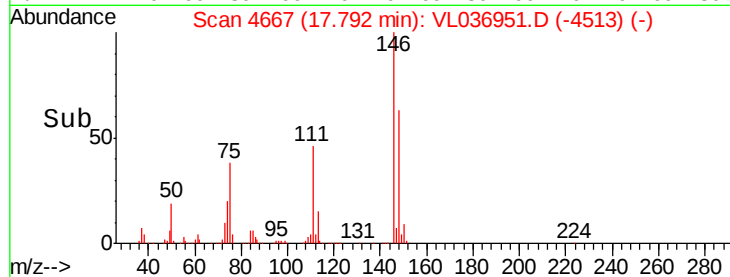
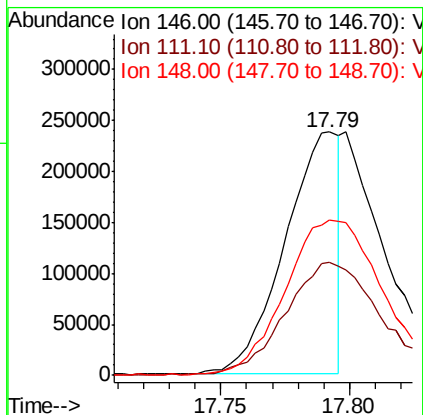
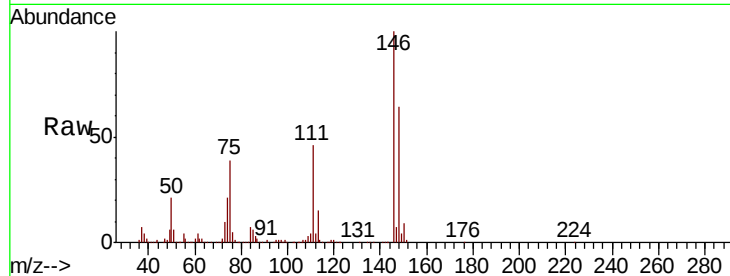




#77
 1,2-Dichlorobenzene
 Concen: 1.240 ppbv
 RT: 17.79 min Scan# 4667
 Delta R.T. -0.00 min
 Lab File: VL036951.D
 Acq: 18 May 2021 2:39

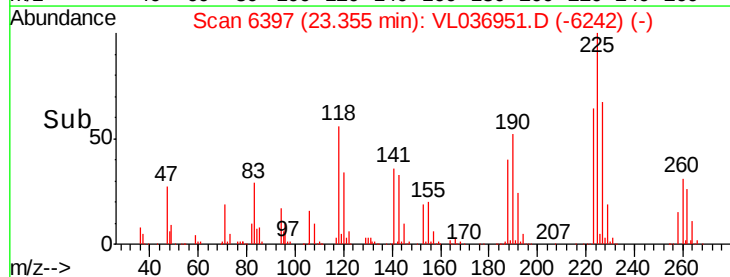
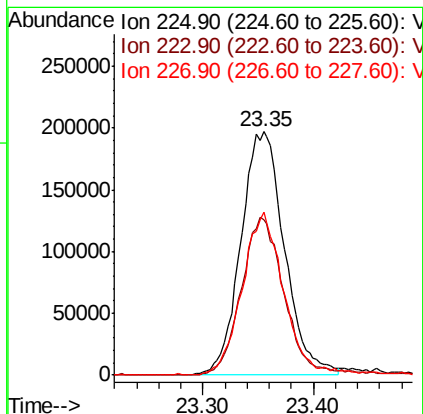
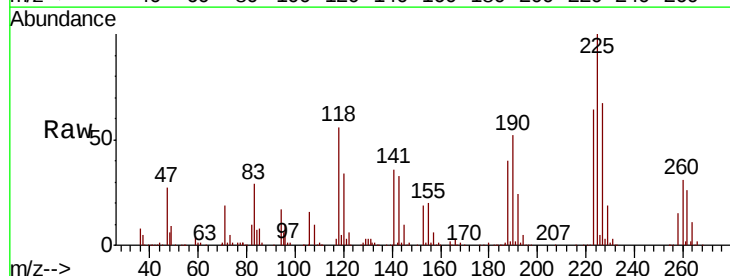
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

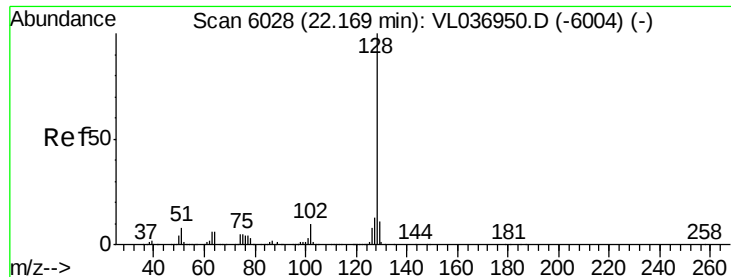
Tot Ion:146 Resp: 346150
 Ion Ratio Lower Upper
 146 100
 111 87.3 23.1 69.2#
 148 121.2 32.5 97.4#



#78
 Hexachloro-1,3-Butadiene
 Concen: 2.151 ppbv
 RT: 23.35 min Scan# 6397
 Delta R.T. -0.00 min
 Lab File: VL036951.D
 Acq: 18 May 2021 2:39

Tgt Ion:225 Resp: 536298
 Ion Ratio Lower Upper
 225 100
 223 65.3 51.9 77.9
 227 65.2 51.8 77.6





#79

Naphthalene

Concen: 3.950 ppbv

RT: 22.17 min Scan# 6029

Delta R.T. 0.00 min

Lab File: VL036951.D

Acq: 18 May 2021 2:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

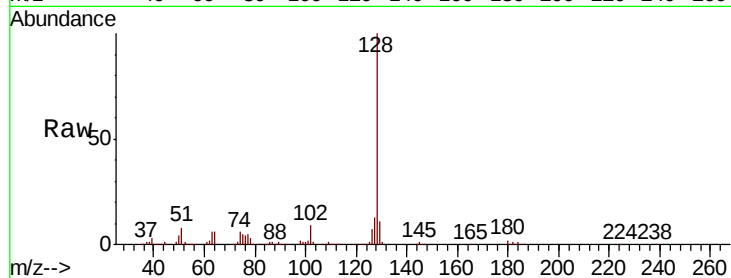
Tot Ion:128 Resp: 848579

Ion Ratio Lower Upper

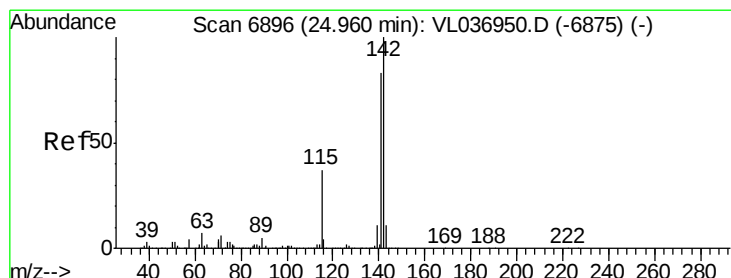
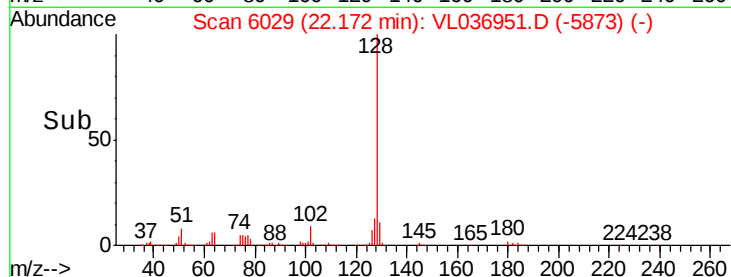
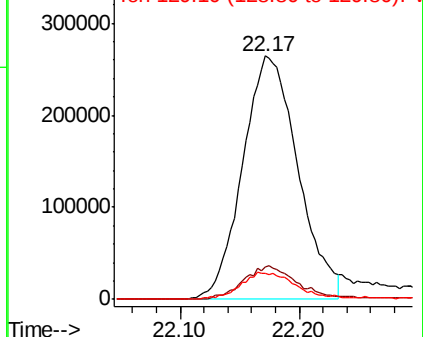
128 100

127 13.1 10.4 15.6

129 10.8 9.0 13.6



Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 4.275 ppbv

RT: 24.96 min Scan# 6896

Delta R.T. -0.00 min

Lab File: VL036951.D

Acq: 18 May 2021 2:39

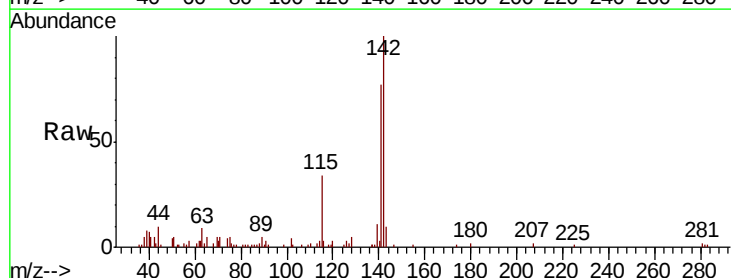
Tgt Ion:142 Resp: 134590

Ion Ratio Lower Upper

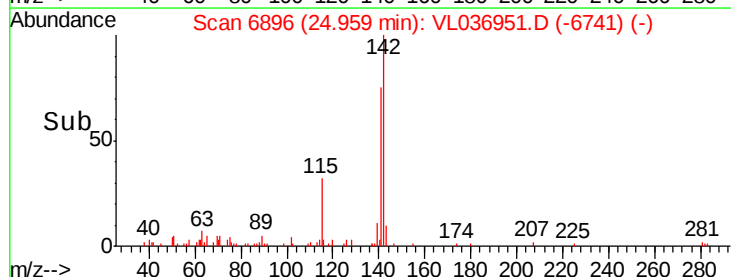
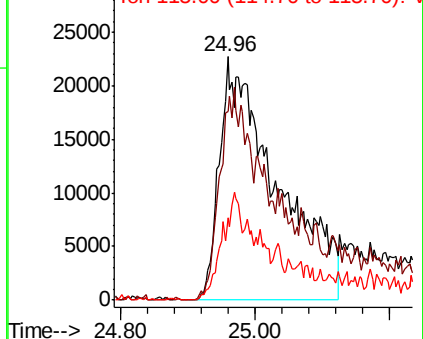
142 100

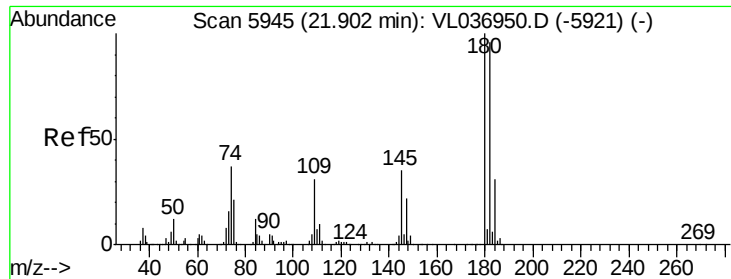
141 81.0 69.3 103.9

115 30.4 29.1 43.7



Abundance Ion 142.00 (141.70 to 142.70): V
Ion 141.00 (140.70 to 141.70): V
Ion 115.00 (114.70 to 115.70): V

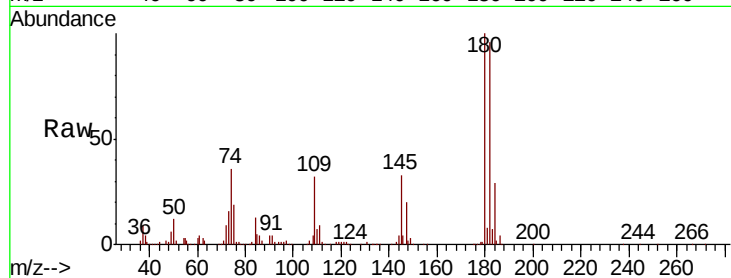




#81
 1,2,4-Trichlorobenzene
 Concen: 3.368 ppbv
 RT: 21.90 min Scan# 5946
 Delta R.T. 0.00 min
 Lab File: VL036951.D
 Acq: 18 May 2021 2:39

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
180	100		
182	99.1	81.7	122.5
184	30.9	24.9	37.3



Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

