

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL092320\
 Data File : VL035706.D
 Acq On : 23 Sep 2020 4:40
 Operator : SY/AP
 Sample : VSTDIC001
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Quant Time: Sep 23 05:33:47 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Sep 23 05:25:46 2020
 QLast Update : Wed Sep 23 05:25:46 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1250217	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	4701722	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	4662480	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	3531392	10.54	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.40%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.04	85	238013	1.100 ppbv	96
3) Chlorodifluoromethane	2.99	51	146866	1.075 ppbv	97
4) Chloromethane	3.14	50	79731	1.090 ppbv	99
5) Vinyl Chloride	3.25	62	88519	0.975 ppbv	98
6) Bromomethane	3.47	94	75917	1.006 ppbv	92
7) Chloroethane	3.56	64	32223	1.008 ppbv	95
8) Dichlorotetrafluoroethane	3.19	85	282284	1.089 ppbv	98
9) Propene	3.01	41	51109	0.972 ppbv	98
10) Heptane	8.14	43	139677	0.973 ppbv	99
11) Trichlorofluoromethane	3.95	101	323434	1.037 ppbv	91
12) 1,1,2-Trichlorotrifluoroet	4.49	101	236153	1.006 ppbv	98
13) Ethanol	3.61	45	6527	0.500 ppbv #	32
14) Bromoethene	3.74	108	95942	0.956 ppbv	99
15) Acetone	3.85	43	150026	1.106 ppbv	90
16) 1,3-Butadiene	3.33	39	48325	0.946 ppbv	95
17) tert-Butyl alcohol	4.30	59	165239	1.011 ppbv	100
18) 1,1-Dichloroethene	4.29	96	100371	0.972 ppbv	96
19) Isopropyl Alcohol	3.97	45	81181	1.016 ppbv #	93
20) Methylene Chloride	4.35	84	114149	1.117 ppbv	98
21) Allyl Chloride	4.42	41	66148	1.030 ppbv	98
22) trans-1,2-Dichloroethene	4.89	96	104754	0.951 ppbv	99
23) Vinyl Acetate	5.08	43	167894	0.960 ppbv #	95
24) 1,1-Dichloroethane	5.02	63	190563	1.052 ppbv	99
25) Ethyl Acetate	5.69	43	259054	1.060 ppbv	99
26) Hexane	5.70	57	139869	1.013 ppbv	95
27) Carbon Disulfide	4.56	76	193935	0.985 ppbv	99
28) Methyl tert-Butyl Ether	5.05	73	217409	0.926 ppbv	99
29) Chloroform	5.76	83	288373	1.034 ppbv	98
30) Cyclohexane	7.14	84	126238	0.868 ppbv	94
31) cis-1,2-Dichloroethene	5.56	61	127663	0.912 ppbv	92
32) 1,1,1-Trichloroethane	6.52	97	252209	0.935 ppbv	99
34) 2-Butanone	5.26	43	161574	1.129 ppbv	100
35) Carbon Tetrachloride	7.03	117	256273	1.079 ppbv	98
36) Benzene	6.90	78	315195	1.025 ppbv	98
37) 1,2-Dichloroethane	6.32	62	169845	1.147 ppbv	99
38) Trichloroethene	7.85	130	162373	0.919 ppbv	94
39) 1,2-Dichloropropane	7.62	63	116045	1.109 ppbv	99
40) 1,4-Dioxane	7.87	88	54912	1.077 ppbv	84
41) Tetrahydrofuran	6.07	42	74103	0.978 ppbv	97
42) Bromodichloromethane	7.80	83	262375	1.099 ppbv	98
43) Methyl Methacrylate	8.03	69	115885	0.967 ppbv	97

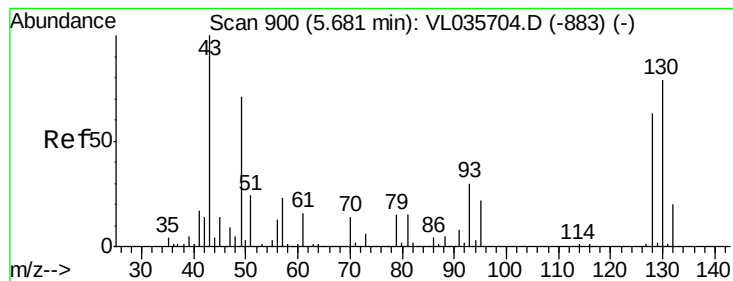
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL092320\
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Sep 23 05:25:46 2020
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.88	57	485633	1.184	ppbv	98
45) t-1,3-Dichloropropene	9.29	75	102452	0.846	ppbv	99
46) cis-1,3-Dichloropropene	8.72	75	134186	0.892	ppbv	96
47) 1,1,2-Trichloroethane	9.49	97	166908	1.090	ppbv	98
48) Dibromochloromethane	10.32	129	237315	0.993	ppbv	99
49) Bromoform	13.06	173	193981	0.911	ppbv	97
50) 4-Methyl-2-Pentanone	8.77	43	236009	1.135	ppbv	97
51) 2-Hexanone	10.17	43	180362	1.061	ppbv #	94
52) Tetrachloroethene	11.24	164	90267	0.515	ppbv	95
53) Toluene	9.83	91	357125	0.926	ppbv	97
54) 1,2-Dibromoethane	10.63	107	243668	1.011	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.15	131	207703	1.084	ppbv #	1
57) Chlorobenzene	12.17	112	394592	1.135	ppbv	94
58) Ethyl Benzene	12.73	91	486356	0.993	ppbv	94
59) m/p-Xylene	13.02	91	543101	1.319	ppbv #	58
60) o-Xylene	13.72	91	444545	1.073	ppbv	98
61) Styrene	13.55	104	277165	0.886	ppbv	98
62) Isopropylbenzene	14.69	105	706547	1.071	ppbv	94
63) 1,1,2,2-Tetrachloroethane	13.70	83	371542	1.159	ppbv	98
64) n-propylbenzene	15.59	120	196453	0.984	ppbv	69
65) tert-Butylbenzene	16.78	119	645633	1.058	ppbv	96
66) Benzyl Chloride	17.02	91	144675	0.923	ppbv	96
67) sec-Butylbenzene	17.33	105	907902	1.110	ppbv	93
69) p-Isopropyltoluene	17.68	119	718084	1.010	ppbv	94
70) n-Butylbenzene	18.58	91	741240	1.072	ppbv	93
71) 2-Chlorotoluene	15.48	91	491381	1.019	ppbv	97
72) 4-Ethyltoluene	15.87	105	517334	0.993	ppbv	97
73) 1,3,5-Trimethylbenzene	16.03	105	491025	1.018	ppbv	89
74) 1,2,4-Trimethylbenzene	16.79	105	582441	1.098	ppbv	93
75) 1,3-Dichlorobenzene	17.02	146	396734	1.030	ppbv	97
76) 1,4-Dichlorobenzene	17.17	146	361182	0.951	ppbv	99
77) 1,2-Dichlorobenzene	17.85	146	361937	0.971	ppbv	100
78) Hexachloro-1,3-Butadiene	23.41	225	194246	0.833	ppbv	99
79) Naphthalene	22.25	128	501848	0.881	ppbv	98
80) Naphthalene, 2-methyl-	25.00	142	66140	0.357	ppbv	97
81) 1,2,4-Trichlorobenzene	21.97	180	261769	0.784	ppbv	98

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 898

Delta R.T. -0.01 min

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MSVOA_L

ClientSampleId :

VSTDIC001

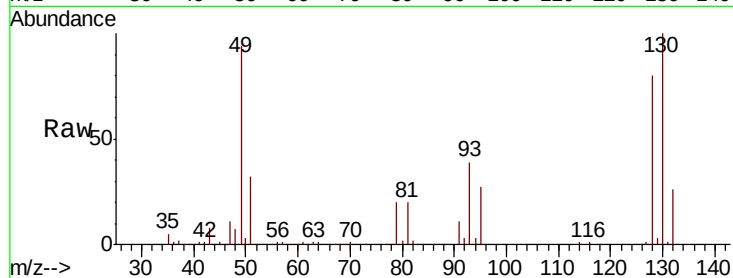
Tot Ion: 49 Resp: 1250217

Ion Ratio Lower Upper

49 100

128 84.6 43.1 129.4

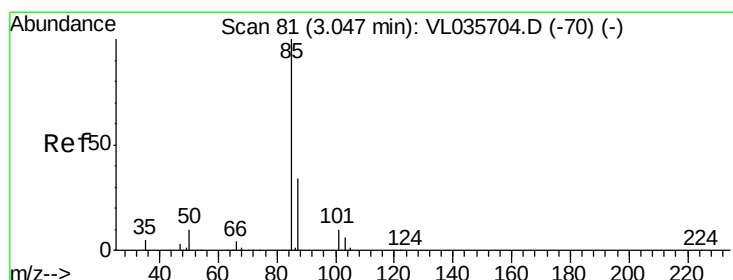
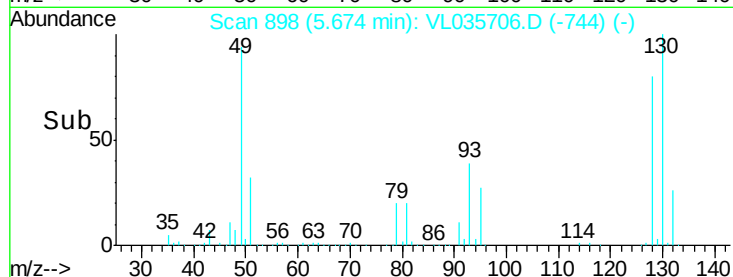
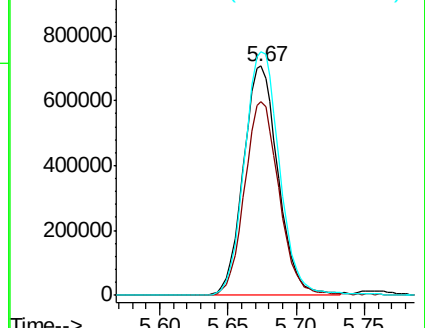
130 108.2 54.9 164.7



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 1.100 ppbv

RT: 3.04 min Scan# 80

Delta R.T. -0.00 min

Lab File: VL035706.D

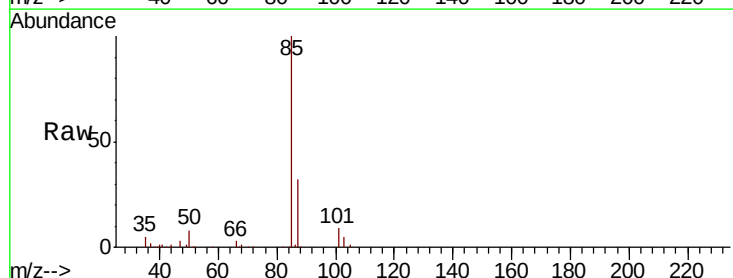
Acq: 23 Sep 2020 4:40

Tgt Ion: 85 Resp: 238013

Ion Ratio Lower Upper

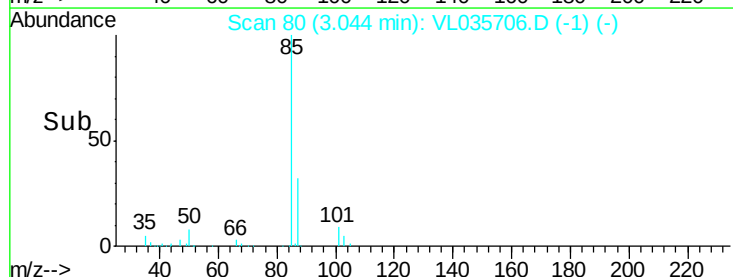
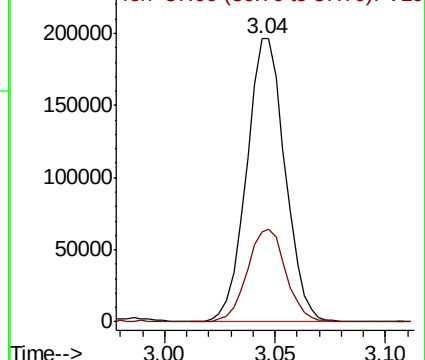
85 100

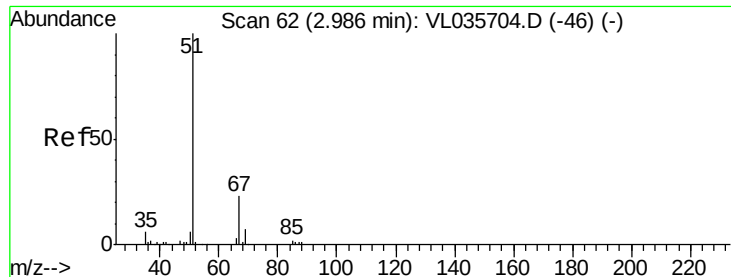
87 31.7 27.3 40.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.075 ppbv

RT: 2.99 min Scan# 62

Delta R.T. 0.00 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

Instrument :

MSVOA_L

ClientSampleId :

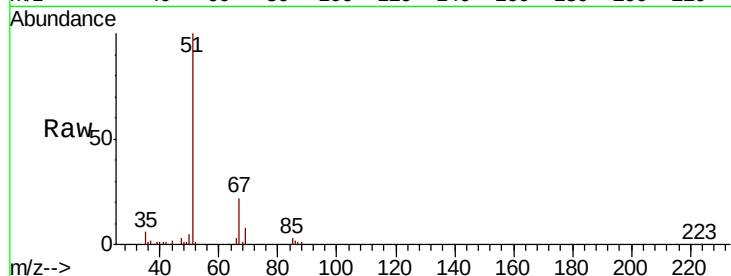
VSTDIC001

Tot Ion: 51 Resp: 146866

Ion Ratio Lower Upper

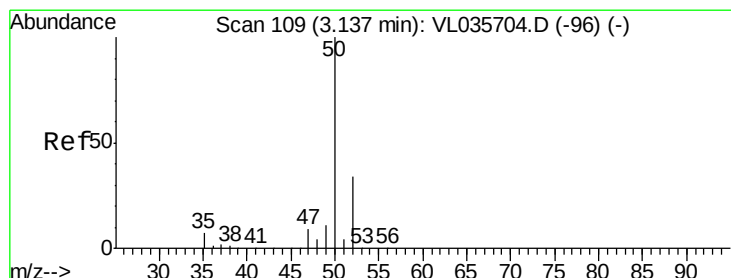
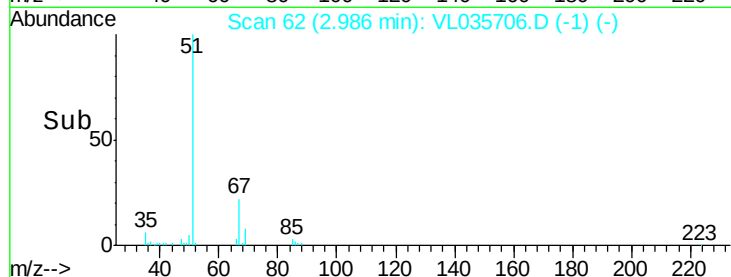
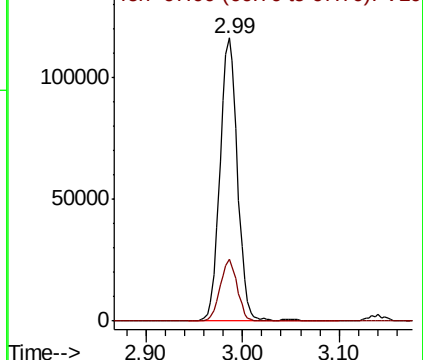
51 100

67 21.0 17.8 26.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 1.090 ppbv

RT: 3.14 min Scan# 109

Delta R.T. 0.00 min

Lab File: VL035706.D

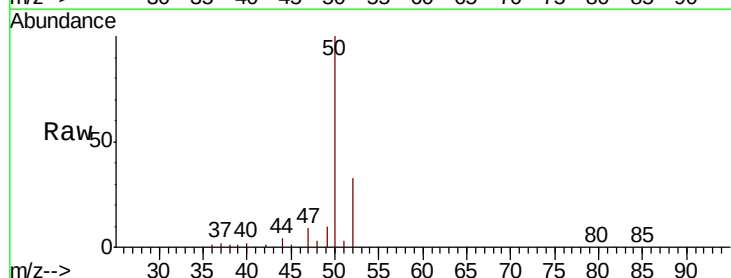
Acq: 23 Sep 2020 4:40

Tgt Ion: 50 Resp: 79731

Ion Ratio Lower Upper

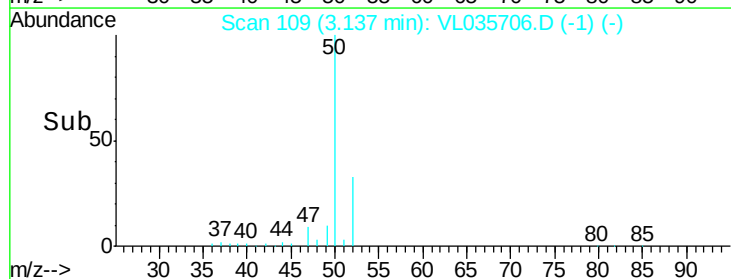
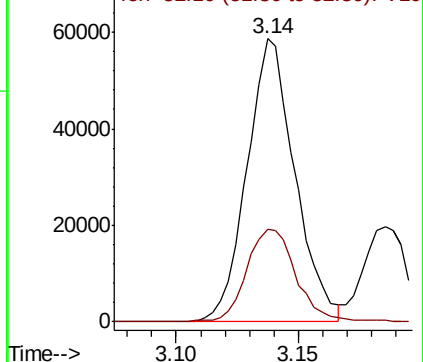
50 100

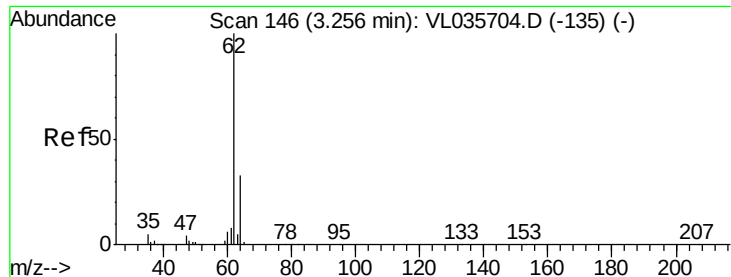
52 32.7 26.8 40.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.975 ppbv

RT: 3.25 min Scan# 145

Delta R.T. -0.00 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

Instrument :

MSVOA_L

ClientSampleId :

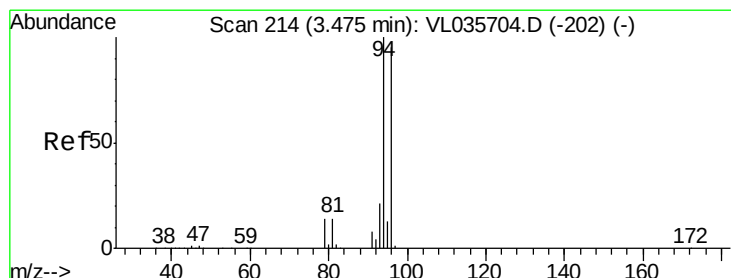
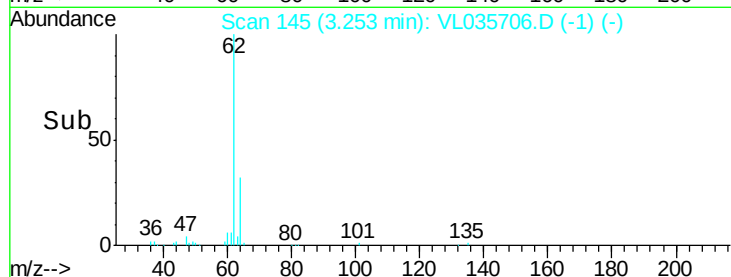
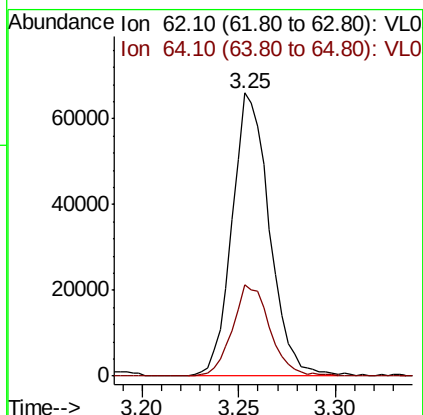
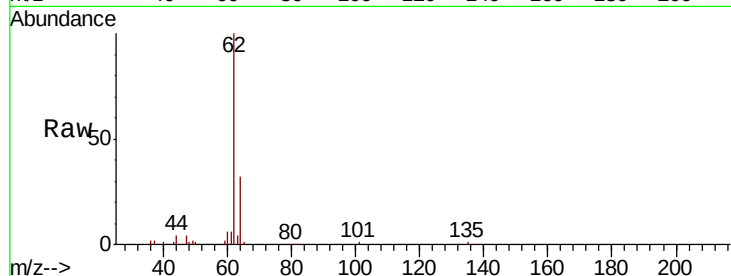
VSTDIC001

Tot Ion: 62 Resp: 88519

Ion Ratio Lower Upper

62 100

64 32.2 26.8 40.2



#6

Bromomethane

Concen: 1.006 ppbv

RT: 3.47 min Scan# 213

Delta R.T. -0.00 min

Lab File: VL035706.D

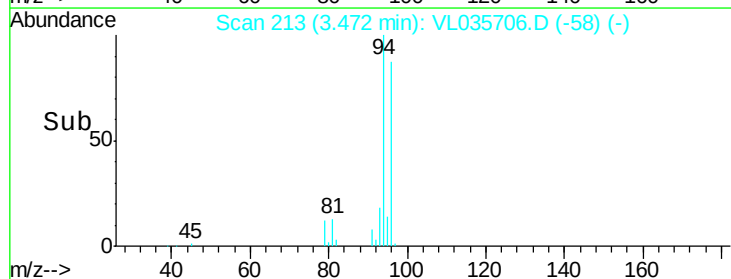
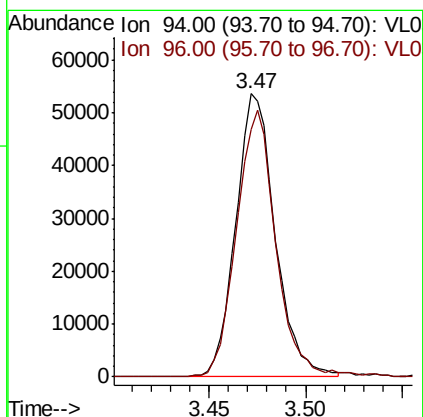
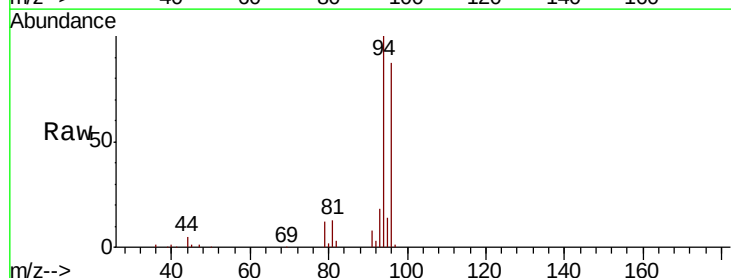
Acq: 23 Sep 2020 4:40

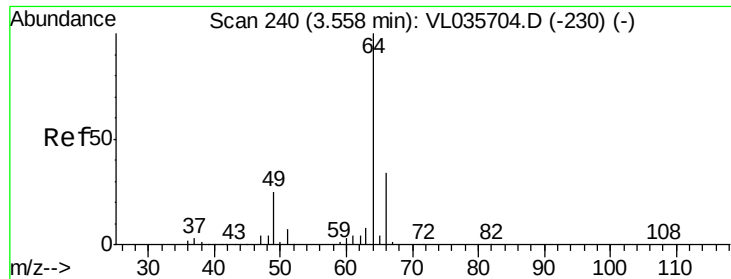
Tgt Ion: 94 Resp: 75917

Ion Ratio Lower Upper

94 100

96 87.3 76.3 114.5





#7

Chloroethane

Concen: 1.008 ppbv

RT: 3.56 min Scan# 240

Delta R.T. 0.00 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

Instrument :

MSVOA_L

ClientSampleId :

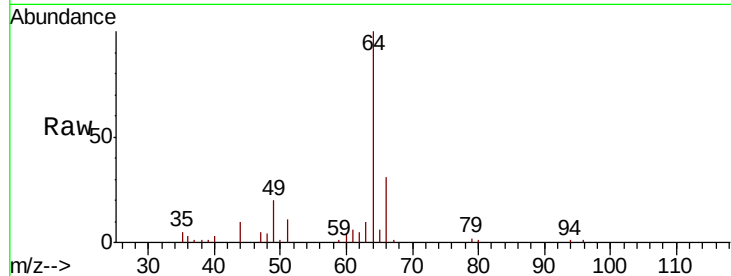
VSTDIC001

Tot Ion: 64 Resp: 32223

Ion Ratio Lower Upper

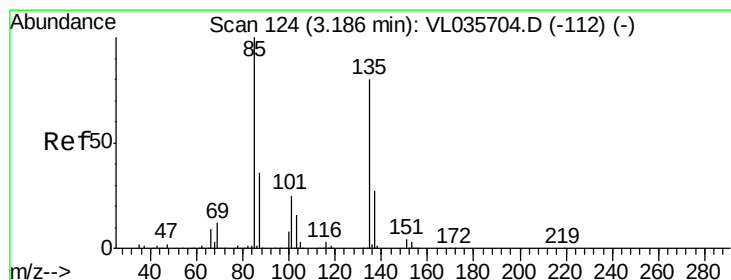
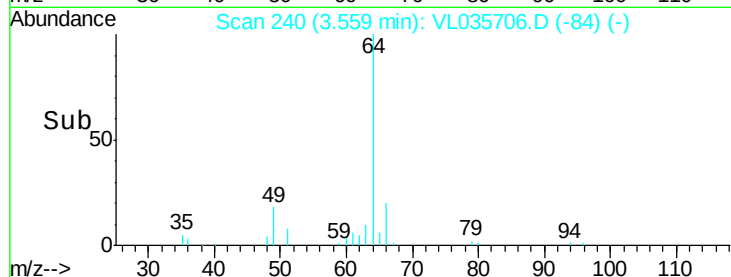
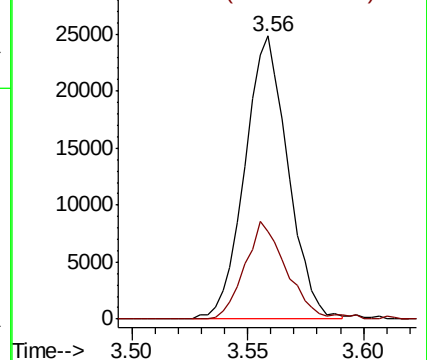
64 100

66 31.0 26.9 40.3



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 1.089 ppbv

RT: 3.19 min Scan# 124

Delta R.T. 0.00 min

Lab File: VL035706.D

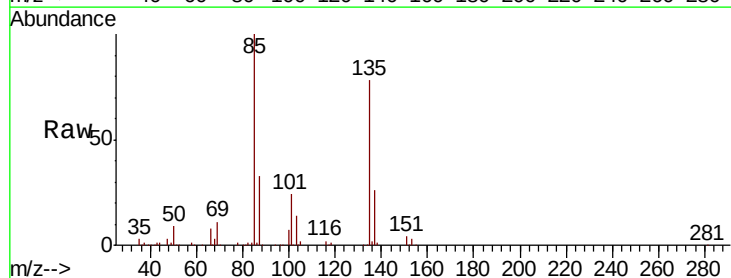
Acq: 23 Sep 2020 4:40

Tgt Ion: 85 Resp: 282284

Ion Ratio Lower Upper

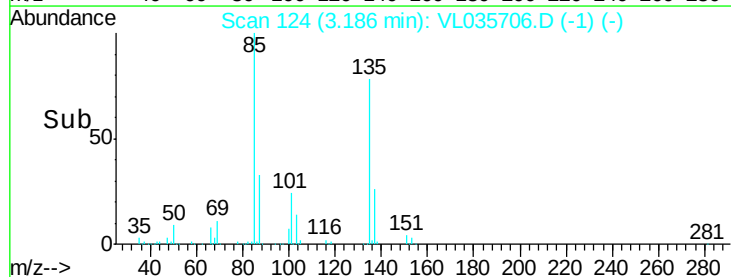
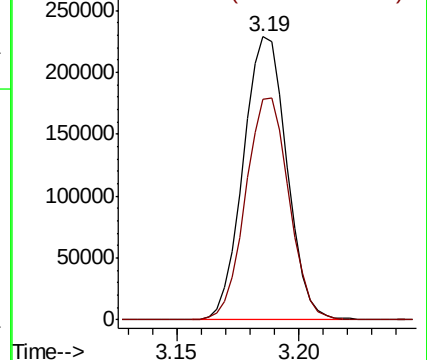
85 100

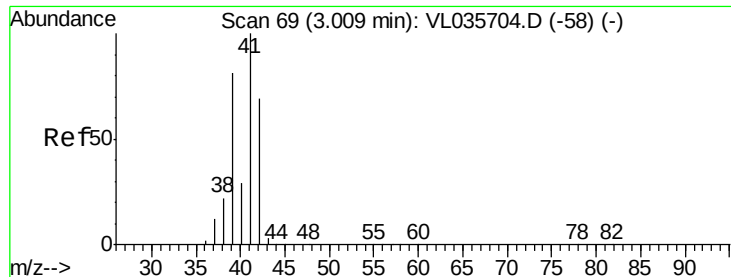
135 78.6 64.3 96.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.972 ppbv

RT: 3.01 min Scan# 69

Delta R.T. 0.00 min

Lab File: VL035706.D

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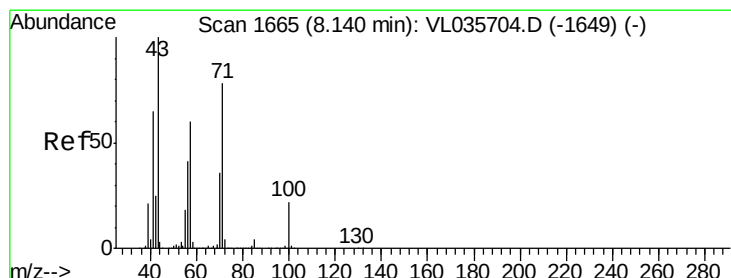
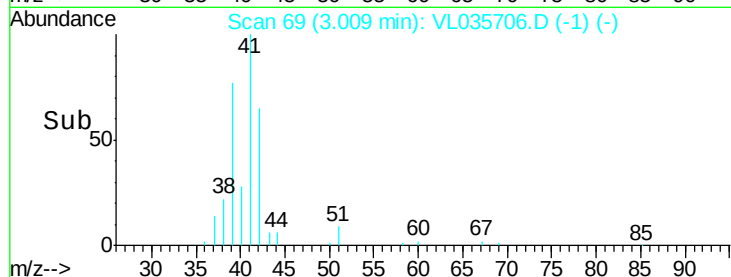
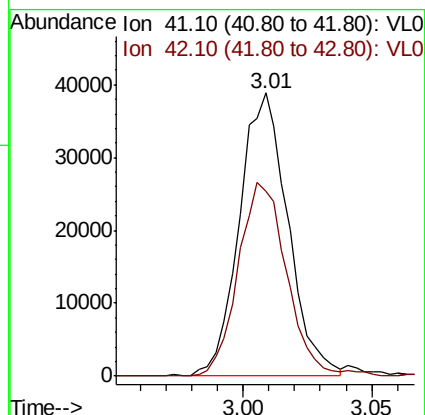
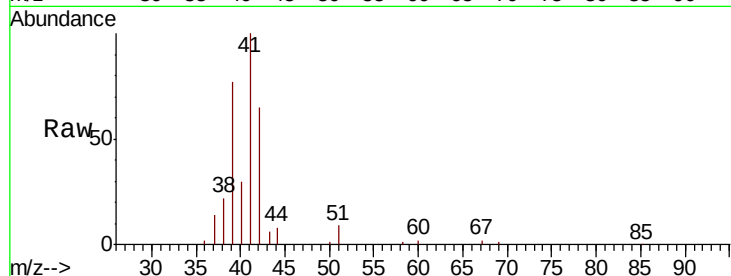
VSTDIC001

Tot Ion: 41 Resp: 51109

Ion Ratio Lower Upper

41 100

42 68.9 56.2 84.4



#10

Heptane

Concen: 0.973 ppbv

RT: 8.14 min Scan# 1665

Delta R.T. 0.00 min

Lab File: VL035706.D

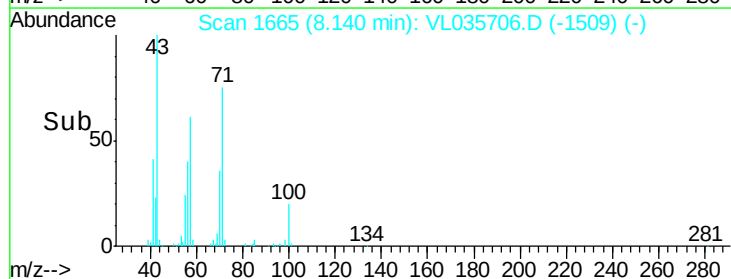
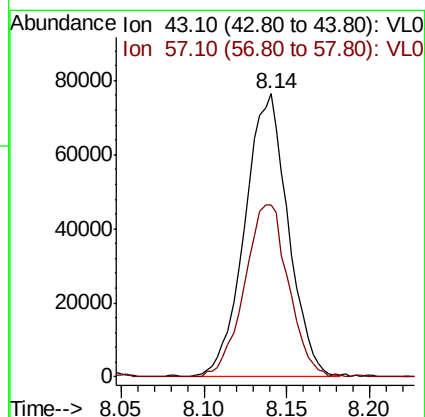
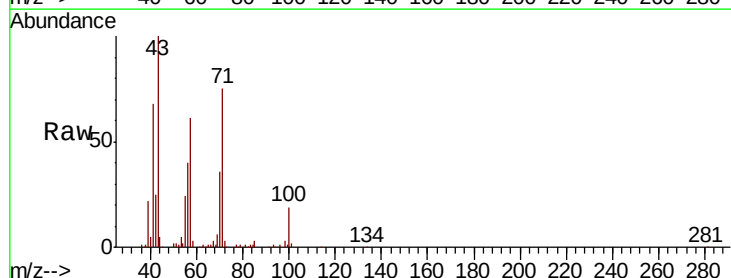
Acq: 23 Sep 2020 4:40

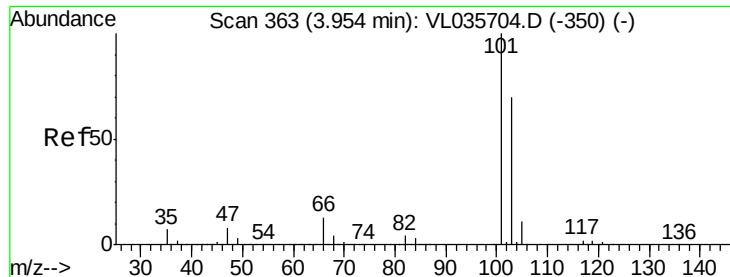
Tgt Ion: 43 Resp: 139677

Ion Ratio Lower Upper

43 100

57 61.9 50.4 75.6





#11

Trichlorofluoromethane

Concen: 1.037 ppbv

RT: 3.95 min Scan# 363

Delta R.T. 0.00 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

Instrument :

MSVOA_L

ClientSampleId :

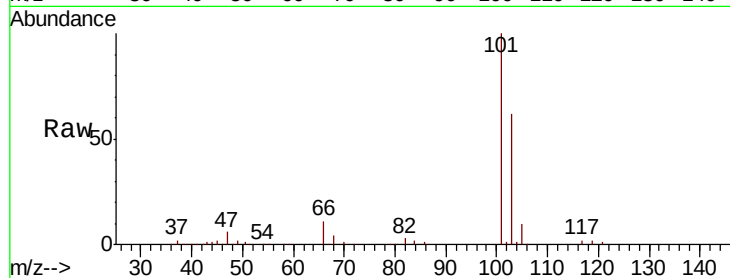
VSTDIC001

Tot Ion:101 Resp: 323434

Ion Ratio Lower Upper

101 100

103 62.2 55.6 83.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

250000

200000

150000

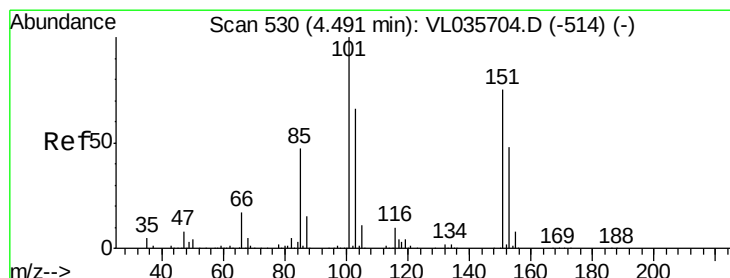
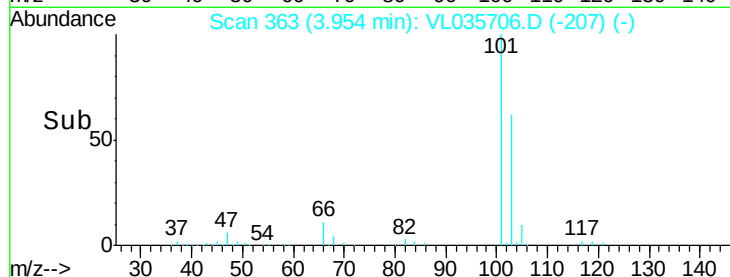
100000

50000

0

3.90 3.95 4.00

Time-->



#12

1,1,2-Trichlorotrifluoroethane

Concen: 1.006 ppbv

RT: 4.49 min Scan# 530

Delta R.T. 0.00 min

Lab File: VL035706.D

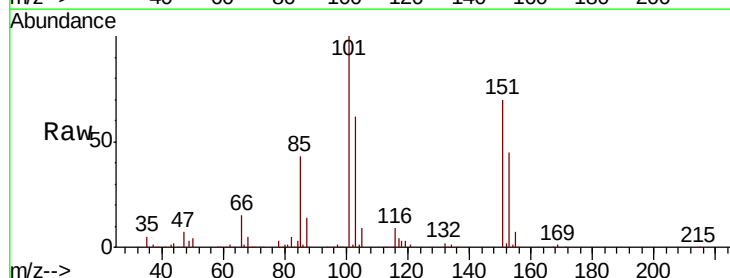
Acq: 23 Sep 2020 4:40

Tgt Ion:101 Resp: 236153

Ion Ratio Lower Upper

101 100

151 72.5 59.1 88.7



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

150000

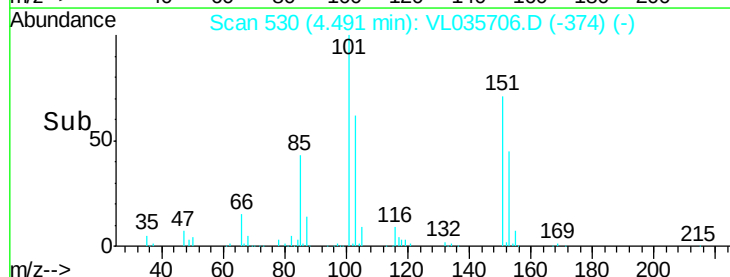
100000

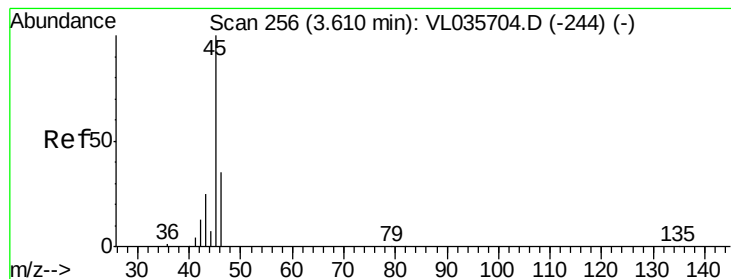
50000

0

4.45 4.49 4.55

Time-->





#13

Ethanol

Concen: 0.500 ppbv

RT: 3.61 min Scan# 255

Delta R.T. -0.00 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

Instrument :

MSVOA_L

ClientSampleId :

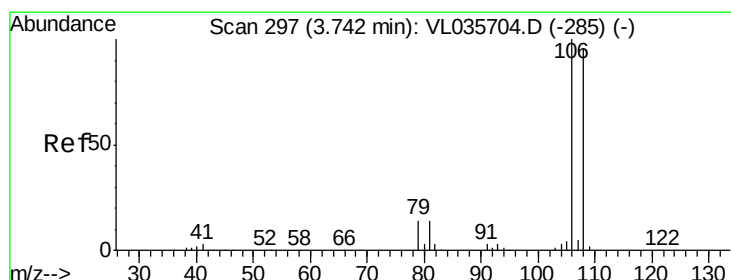
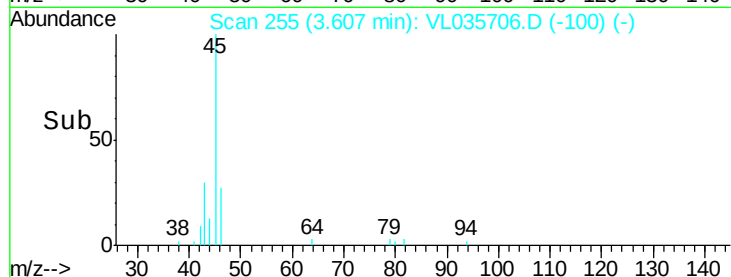
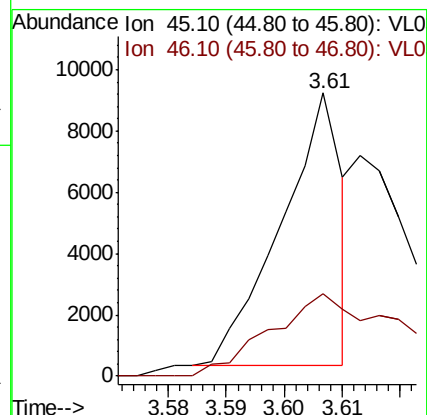
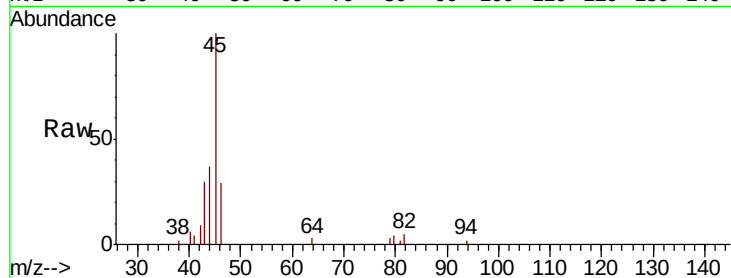
VSTDIC001

Tot Ion: 45 Resp: 6527

Ion Ratio Lower Upper

45 100

46 77.2 14.7 58.7#



#14

Bromoethene

Concen: 0.956 ppbv

RT: 3.74 min Scan# 297

Delta R.T. 0.00 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

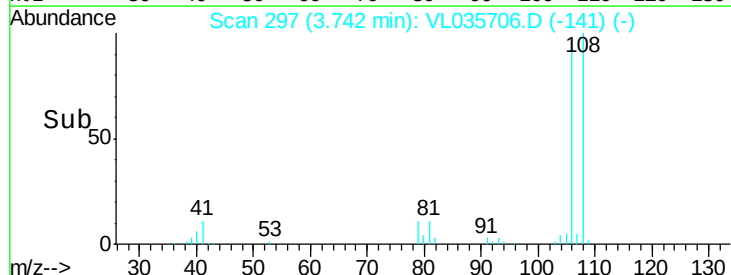
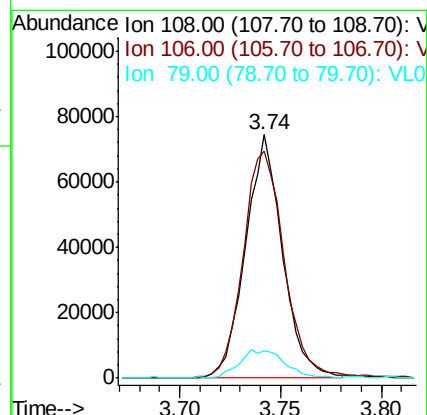
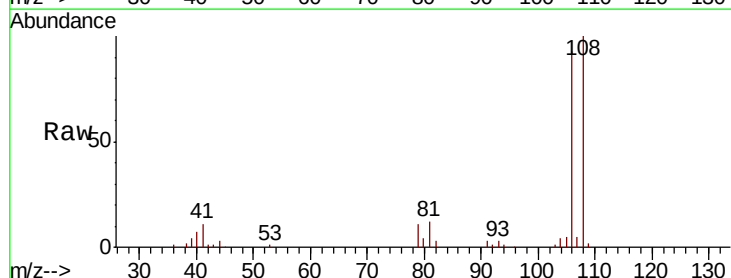
Tgt Ion: 108 Resp: 95942

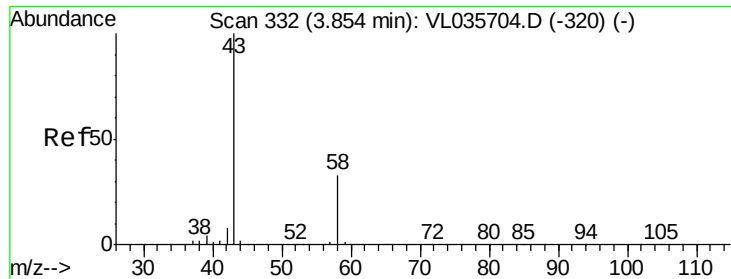
Ion Ratio Lower Upper

108 100

106 104.6 84.6 126.8

79 15.3 11.6 17.4





#15

Acetone

Concen: 1.106 ppbv

RT: 3.85 min Scan# 332

Delta R.T. 0.00 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

Instrument :

MSVOA_L

ClientSampleId :

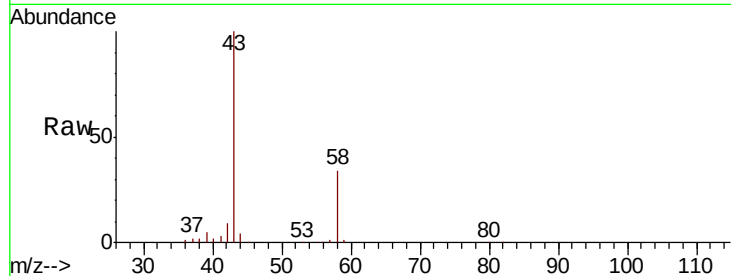
VSTDIC001

Tot Ion: 43 Resp: 150026

Ion Ratio Lower Upper

43 100

58 39.9 27.3 40.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.85

120000

100000

80000

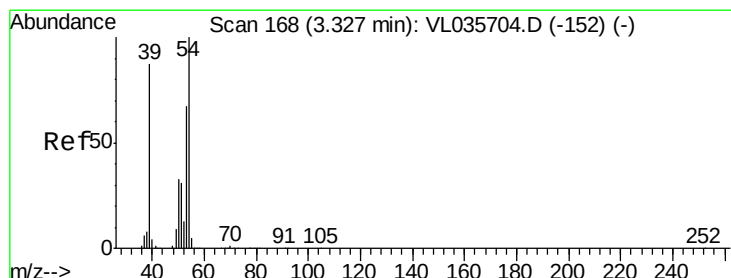
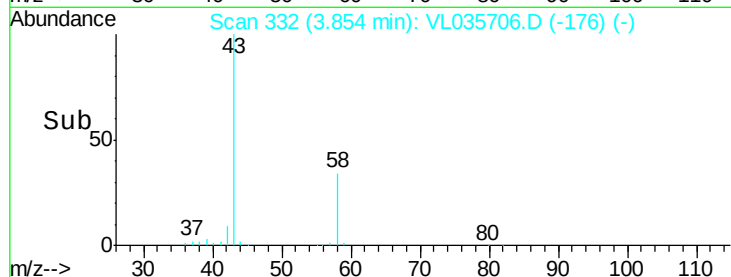
60000

40000

20000

0

Time--> 3.80 3.85 3.90



#16

1,3-Butadiene

Concen: 0.946 ppbv

RT: 3.33 min Scan# 168

Delta R.T. 0.00 min

Lab File: VL035706.D

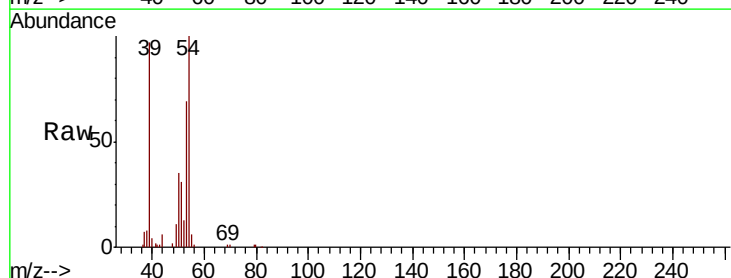
Acq: 23 Sep 2020 4:40

Tgt Ion: 39 Resp: 48325

Ion Ratio Lower Upper

39 100

54 114.4 87.4 131.0



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.33

50000

40000

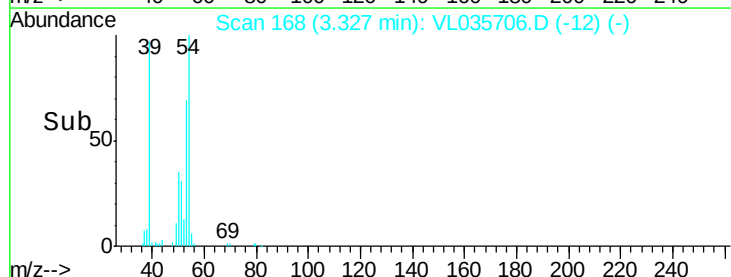
30000

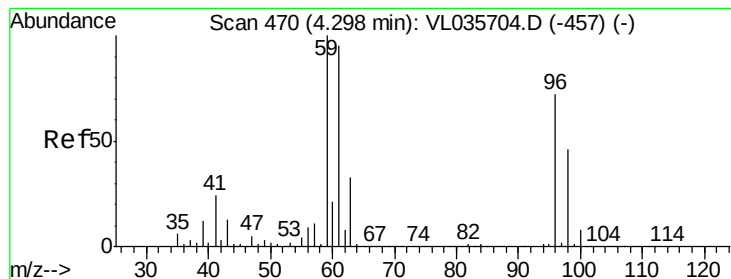
20000

10000

0

Time--> 3.30 3.35





#17

tert-Butyl alcohol

Concen: 1.011 ppbv

RT: 4.30 min Scan# 471

Delta R.T. 0.00 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

Instrument :

MSVOA_L

ClientSampleID :

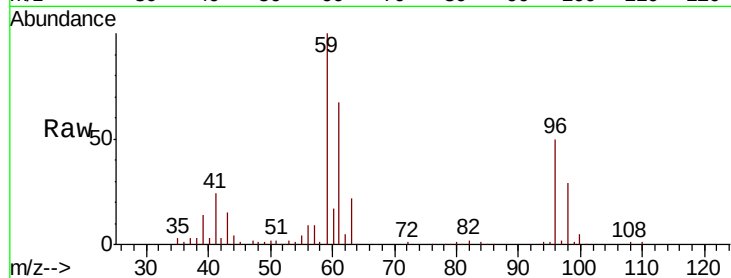
VSTDIC001

Tot Ion: 59 Resp: 165239

Ion Ratio Lower Upper

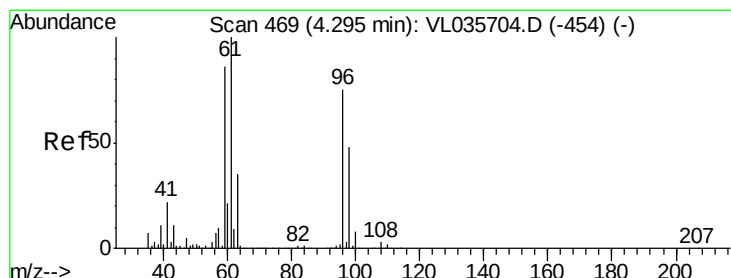
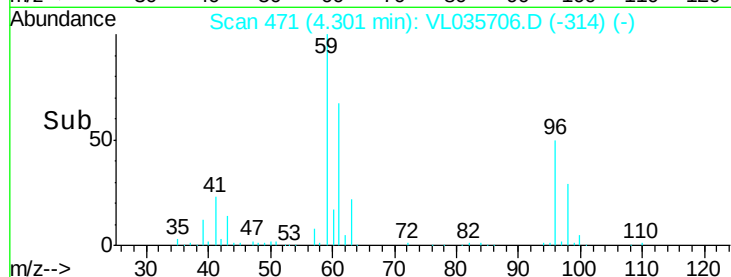
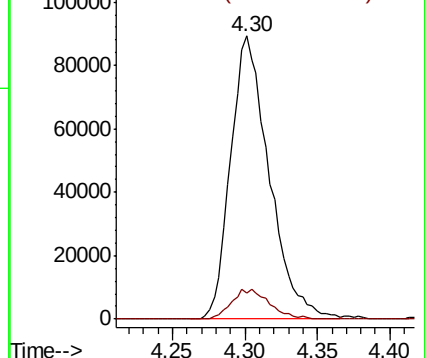
59 100

57 10.5 8.5 12.7



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#18

1,1-Dichloroethene

Concen: 0.972 ppbv

RT: 4.29 min Scan# 468

Delta R.T. -0.00 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

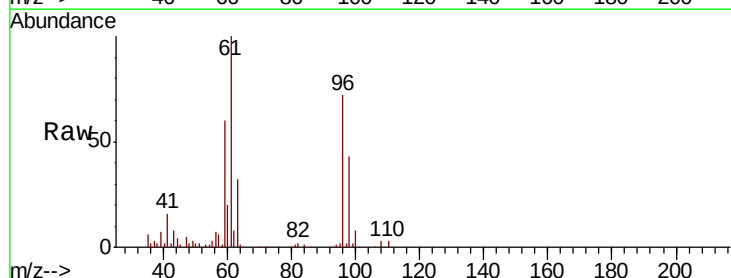
Tgt Ion: 96 Resp: 100371

Ion Ratio Lower Upper

96 100

61 138.4 106.7 160.1

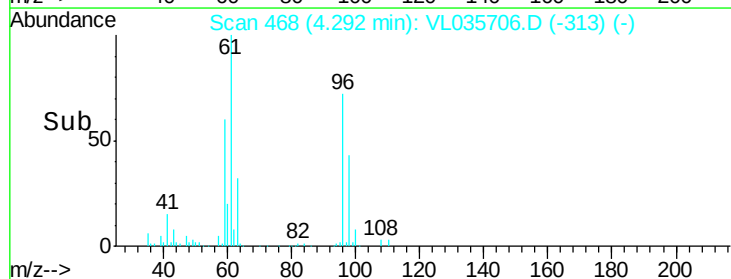
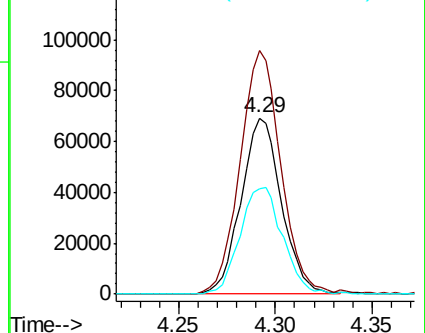
98 60.1 50.8 76.2

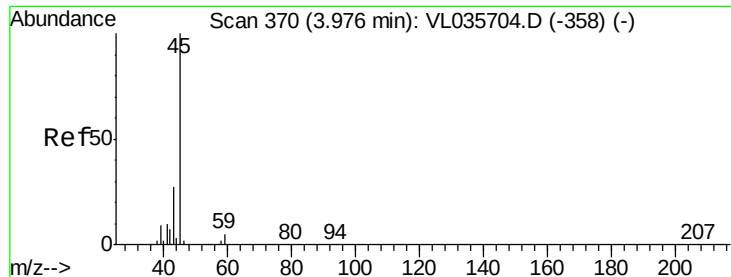


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#19

Isopropyl Alcohol

Concen: 1.016 ppbv

RT: 3.97 min Scan# 369

Delta R.T. -0.00 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

Instrument :

MSVOA_L

ClientSampleId :

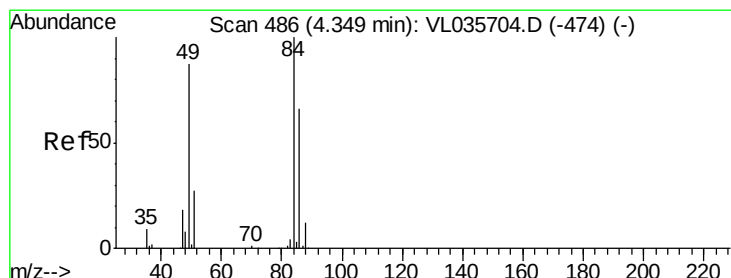
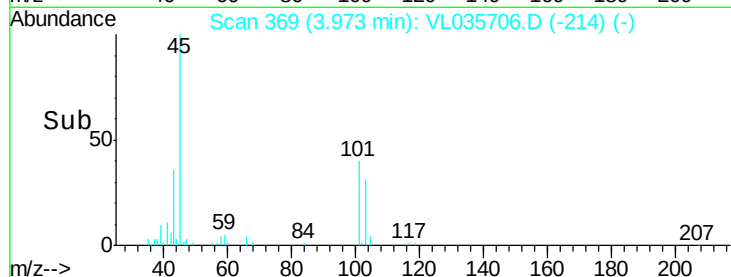
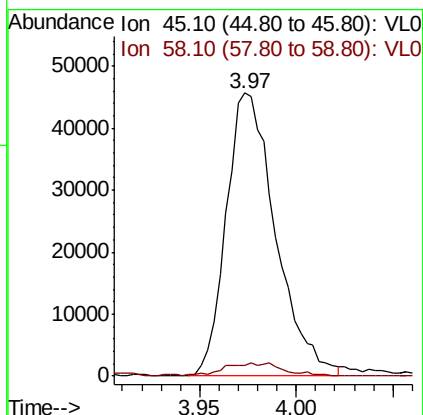
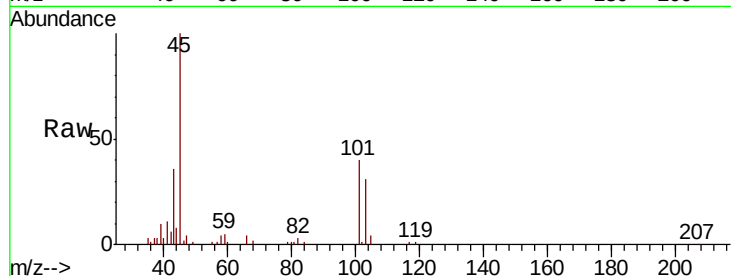
VSTDIC001

Tot Ion: 45 Resp: 81181

Ion Ratio Lower Upper

45 100

58 5.7 2.8 4.2#



#20

Methylene Chloride

Concen: 1.117 ppbv

RT: 4.35 min Scan# 485

Delta R.T. -0.00 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

Tgt Ion: 84 Resp: 114149

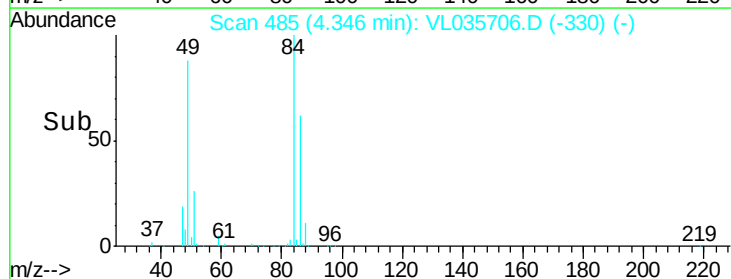
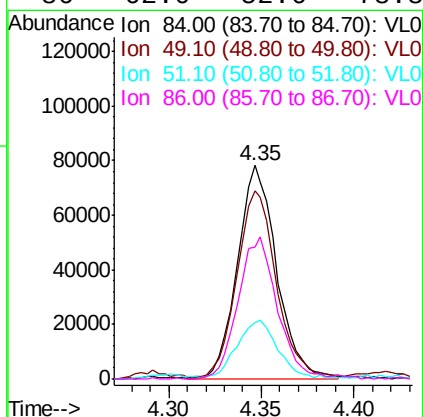
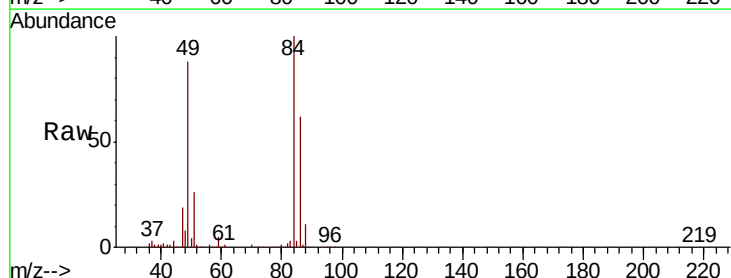
Ion Ratio Lower Upper

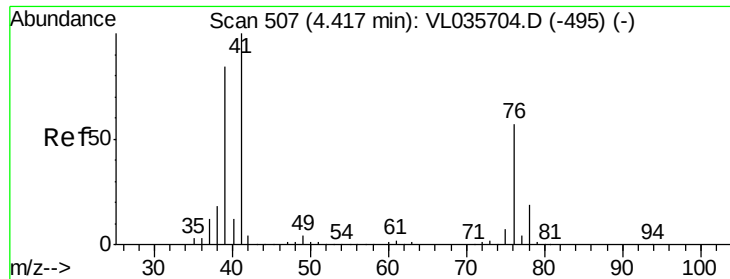
84 100

49 87.5 69.8 104.6

51 25.5 21.8 32.8

86 62.0 52.6 78.8





#21

Allvl Chloride

Concen: 1.030 ppbv

RT: 4.42 min Scan# 507

Delta R.T. 0.00 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

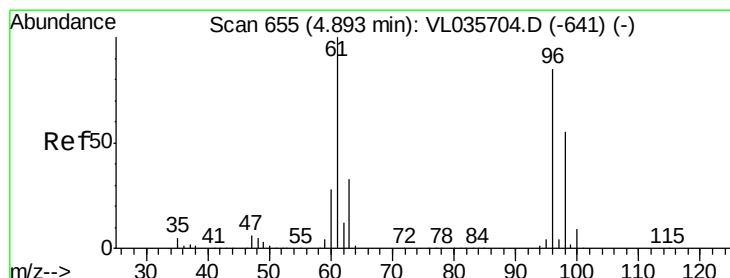
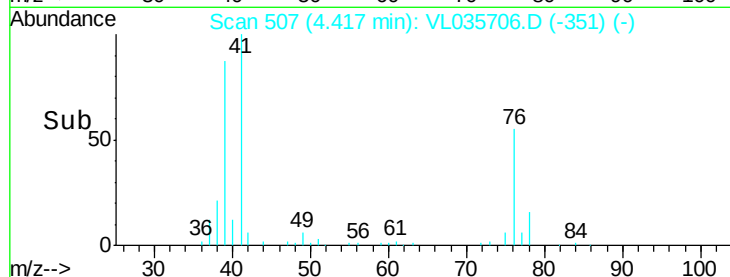
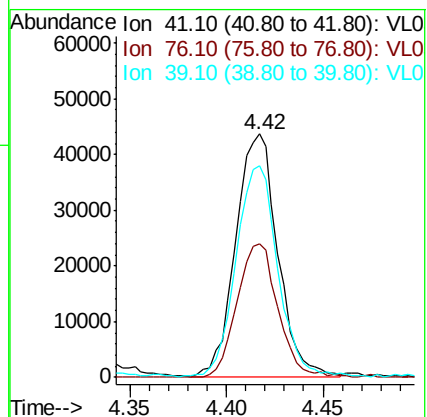
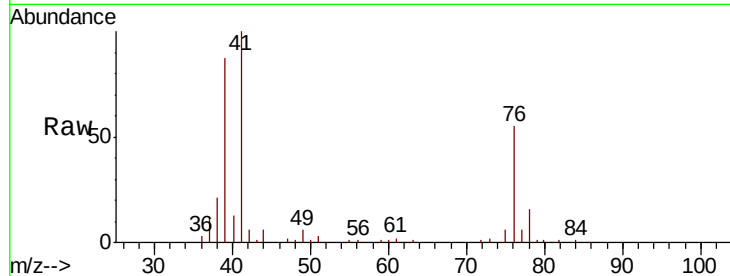
Tot Ion: 41 Resp: 66148

Ion Ratio Lower Upper

41 100

76 53.5 44.8 67.2

39 86.1 68.4 102.6



#22

trans-1,2-Dichloroethene

Concen: 0.951 ppbv

RT: 4.89 min Scan# 654

Delta R.T. -0.00 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

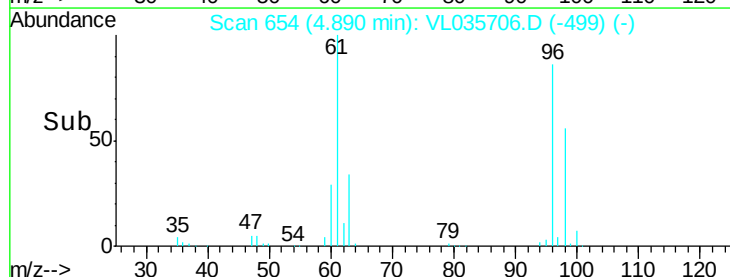
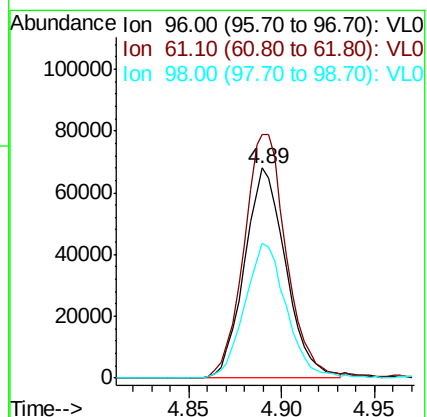
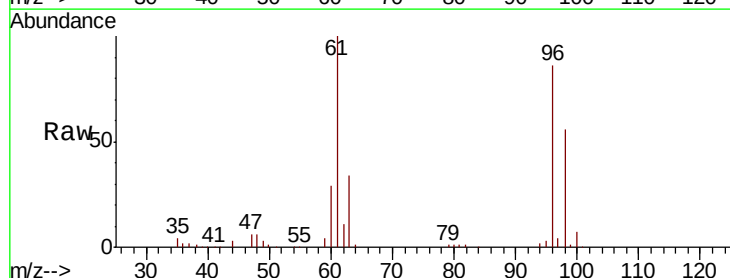
Tgt Ion: 96 Resp: 104754

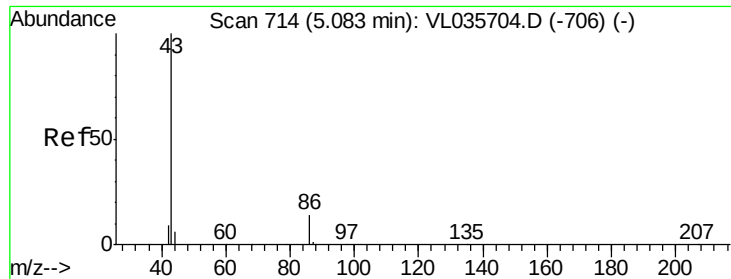
Ion Ratio Lower Upper

96 100

61 115.7 93.7 140.5

98 64.3 51.2 76.8





#23

Vinyl Acetate

Concen: 0.960 ppbv

RT: 5.08 min Scan# 713

Delta R.T. -0.00 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 43 Resp: 167894

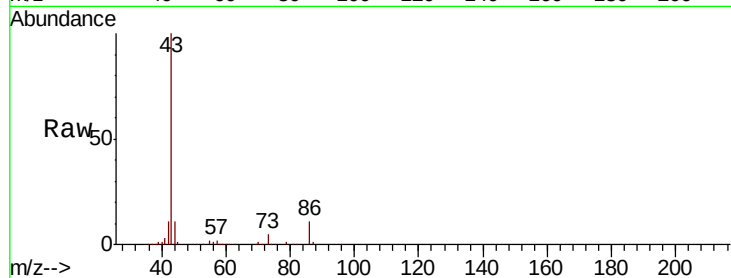
Ion Ratio Lower Upper

43 100

86 10.5 9.7 14.5

42 11.3 7.9 11.9

44 8.8 4.8 7.2#

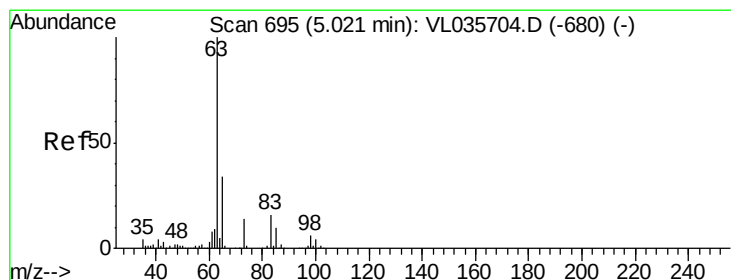
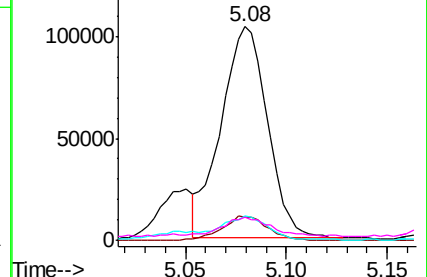
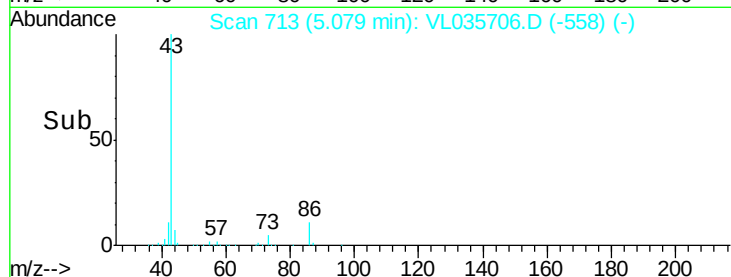


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 1.052 ppbv

RT: 5.02 min Scan# 693

Delta R.T. -0.01 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

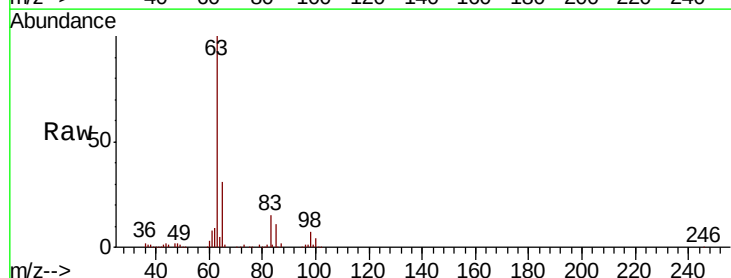
Tgt Ion: 63 Resp: 190563

Ion Ratio Lower Upper

63 100

98 7.0 3.3 9.8

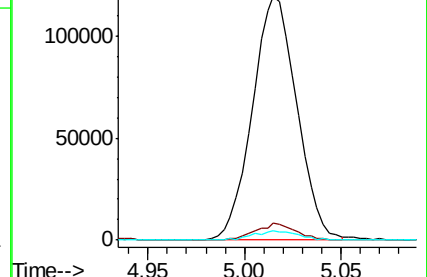
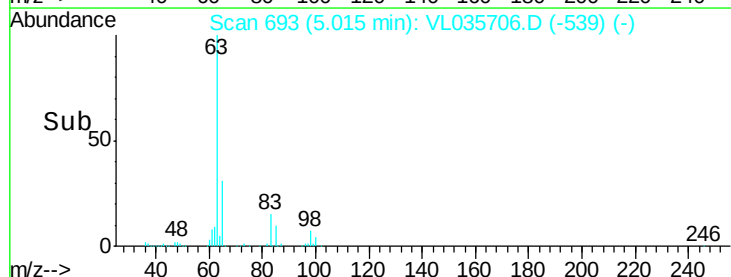
100 4.0 2.0 5.8

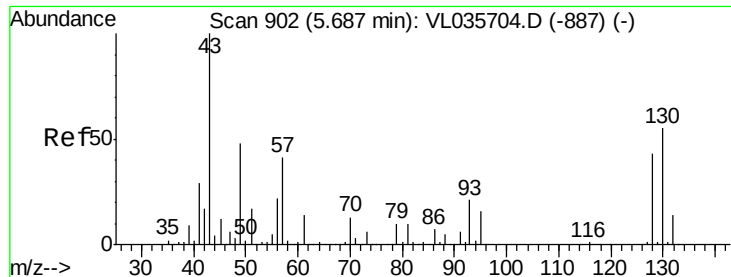


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 1.060 ppbv

RT: 5.69 min Scan# 903

Delta R.T. 0.00 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tot Ion: 43 Resp: 259054

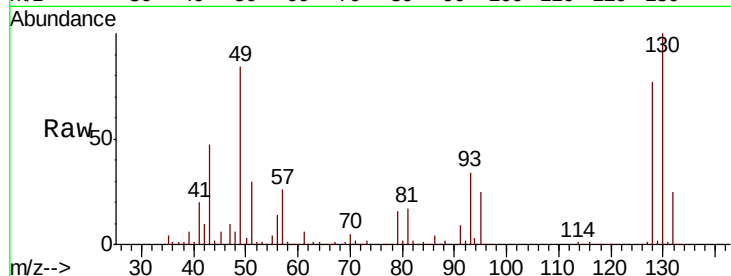
Ion Ratio Lower Upper

43 100

45 11.0 8.6 12.8

61 12.7 10.4 15.6

70 10.5 8.9 13.3

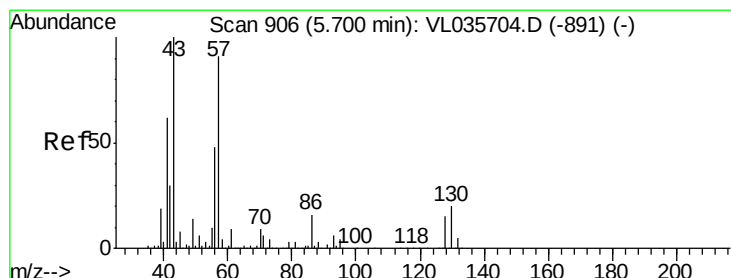
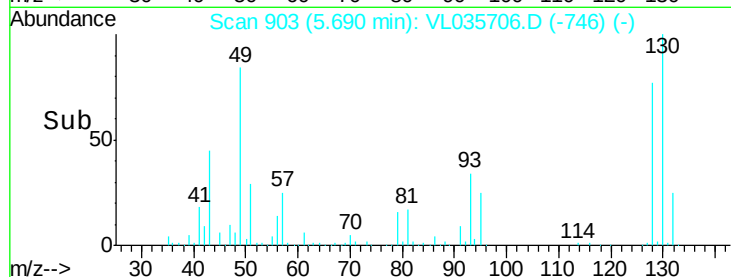
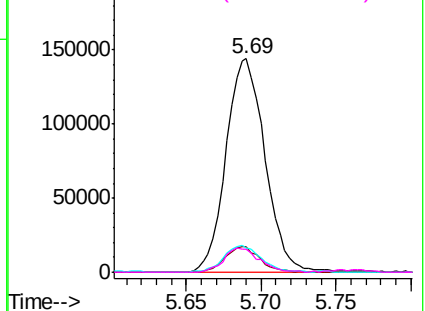


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 1.013 ppbv

RT: 5.70 min Scan# 905

Delta R.T. -0.00 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

Tgt Ion: 57 Resp: 139869

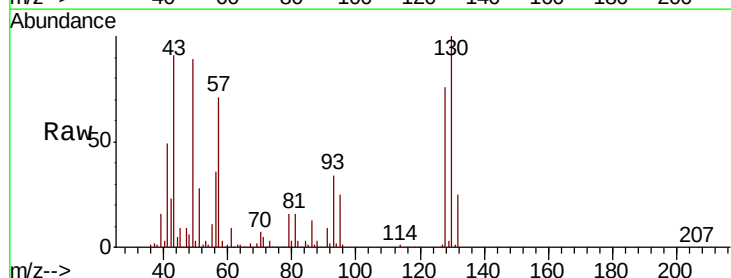
Ion Ratio Lower Upper

57 100

41 77.5 57.9 86.9

43 188.4 143.8 215.6

56 55.3 43.0 64.6

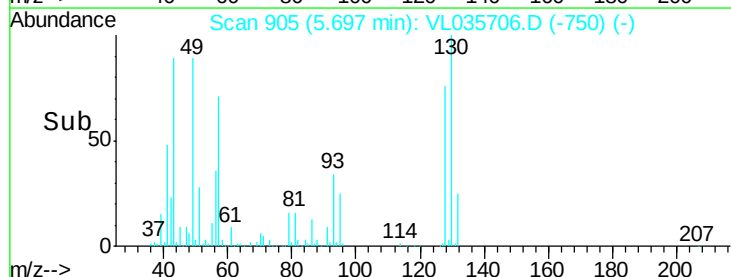
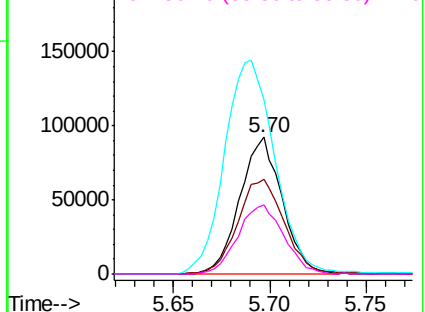


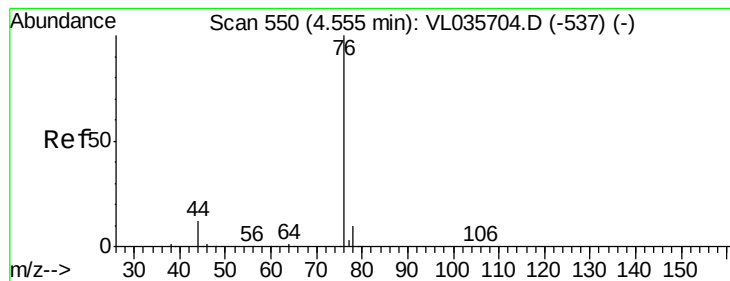
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 0.985 ppbv

RT: 4.56 min Scan# 550

Delta R.T. 0.00 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

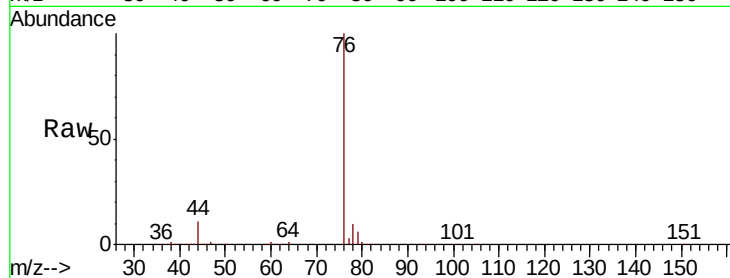
Tot Ion: 76 Resp: 193935

Ion Ratio Lower Upper

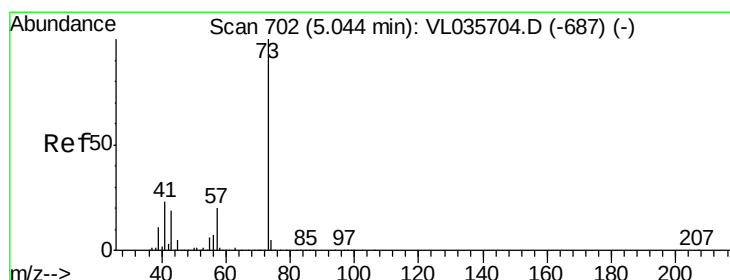
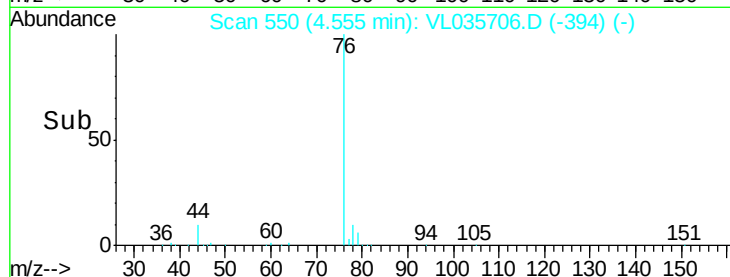
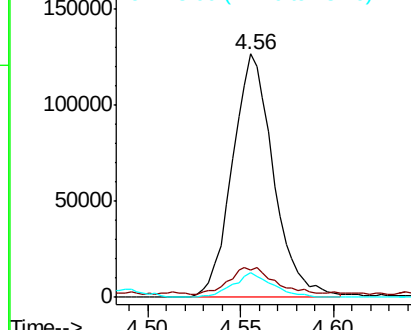
76 100

44 12.4 9.7 14.5

78 10.3 7.8 11.8



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: 0.926 ppbv

RT: 5.05 min Scan# 703

Delta R.T. 0.00 min

Lab File: VL035706.D

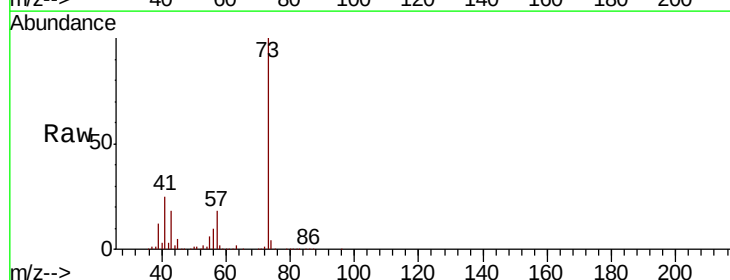
Acq: 23 Sep 2020 4:40

Tgt Ion: 73 Resp: 217409

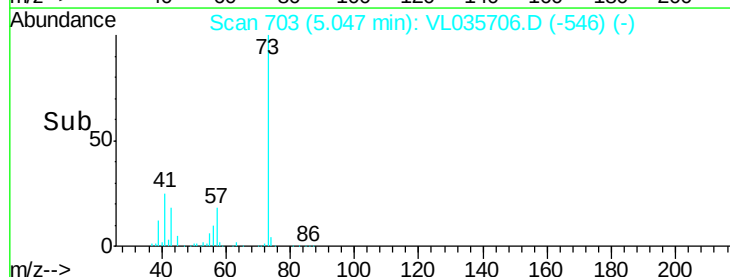
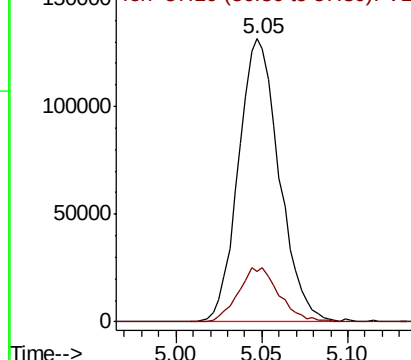
Ion Ratio Lower Upper

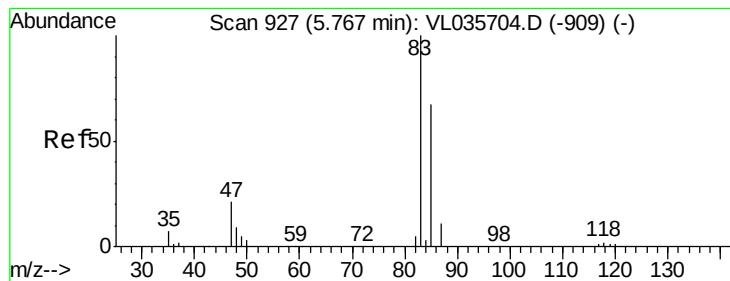
73 100

57 19.2 15.6 23.4



Abundance Ion 73.10 (72.80 to 73.80): VL0
Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 1.034 ppbv

RT: 5.76 min Scan# 924

Delta R.T. -0.01 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

Instrument :

MSVOA_L

ClientSampleId :

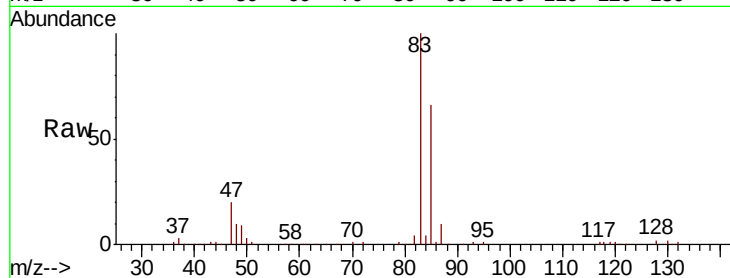
VSTDIC001

Tot Ion: 83 Resp: 288373

Ion Ratio Lower Upper

83 100

85 65.6 54.0 81.0



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

5.76

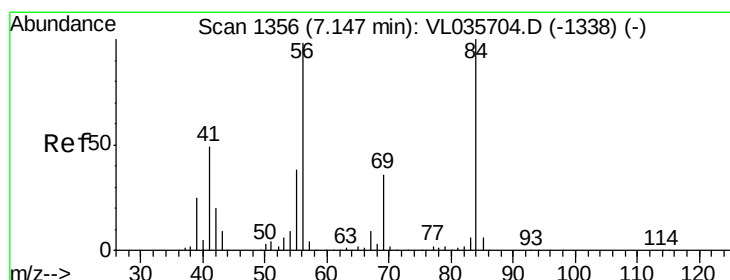
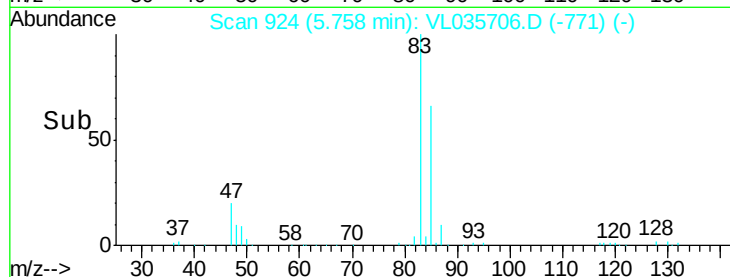
150000

100000

50000

0

Time-->



#30

Cyclohexane

Concen: 0.868 ppbv

RT: 7.14 min Scan# 1355

Delta R.T. -0.00 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

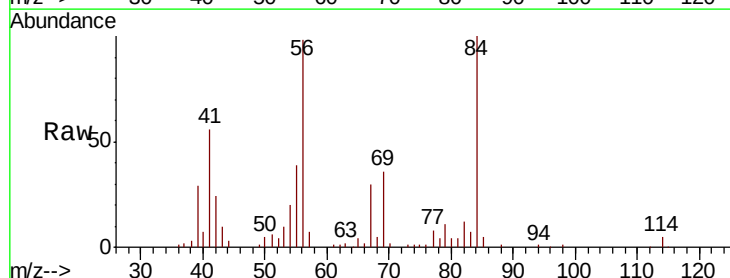
Tgt Ion: 84 Resp: 126238

Ion Ratio Lower Upper

84 100

56 98.5 84.6 127.0

41 54.1 41.1 61.7



Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

80000

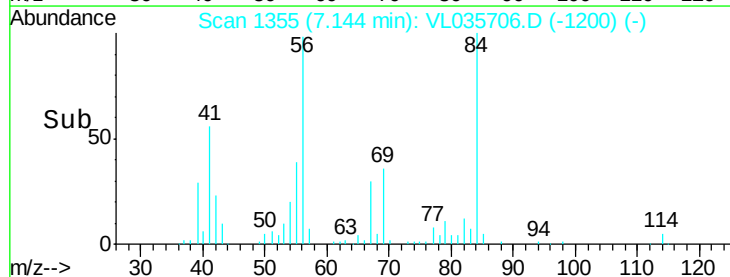
60000

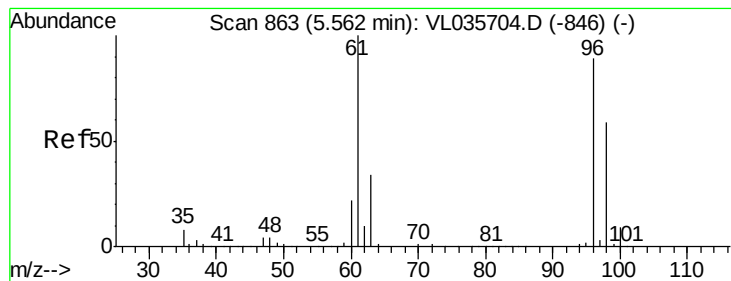
40000

20000

0

Time-->





#31

cis-1,2-Dichloroethene

Concen: 0.912 ppbv

RT: 5.56 min Scan# 861

Delta R.T. -0.01 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

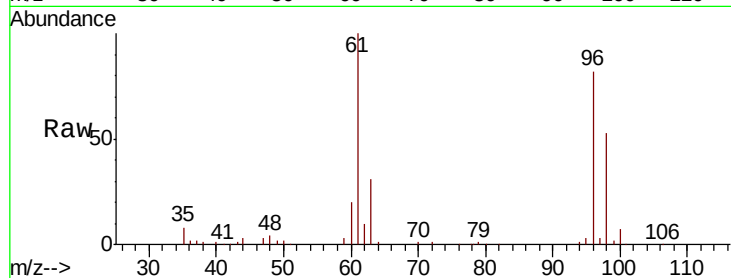
Tot Ion: 61 Resp: 127663

Ion Ratio Lower Upper

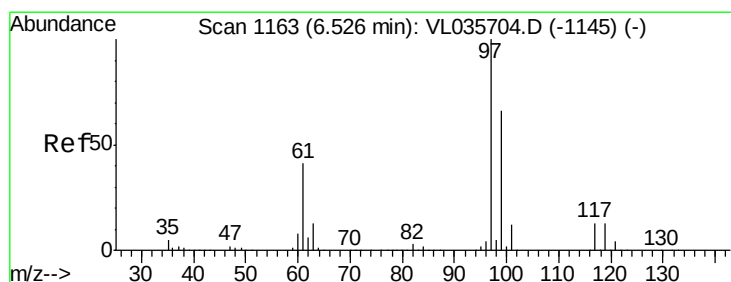
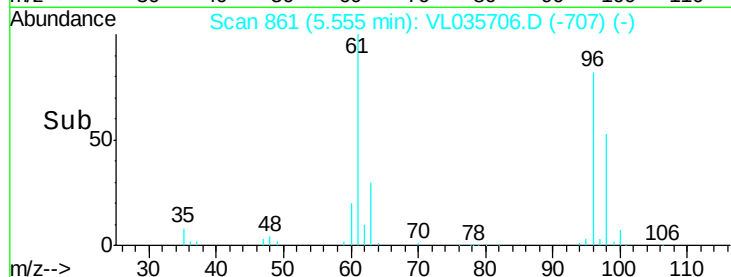
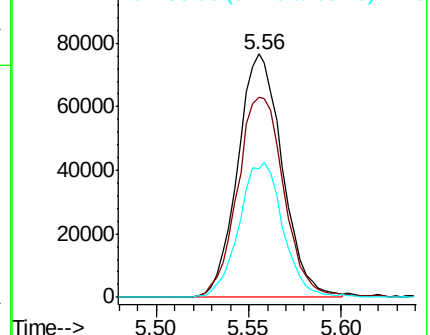
61 100

96 81.7 71.4 107.2

98 52.7 47.4 71.2



Abundance Ion 61.10 (60.80 to 61.80): VL0
Ion 96.00 (95.70 to 96.70): VL0
Ion 98.00 (97.70 to 98.70): VL0



#32

1,1,1-Trichloroethane

Concen: 0.935 ppbv

RT: 6.52 min Scan# 1162

Delta R.T. -0.00 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

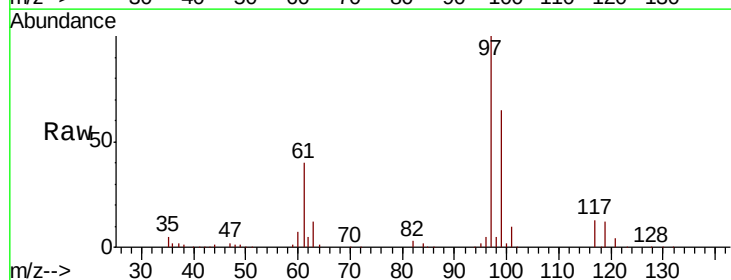
Tgt Ion: 97 Resp: 252209

Ion Ratio Lower Upper

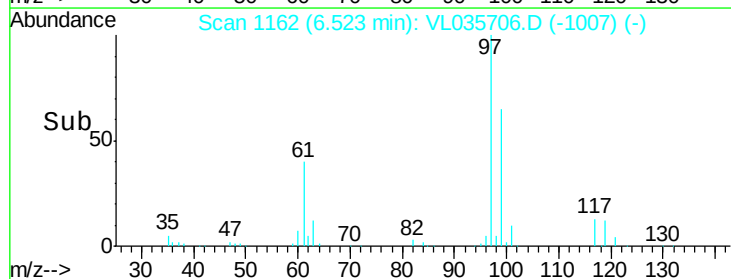
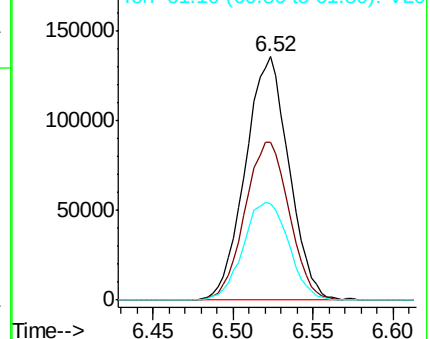
97 100

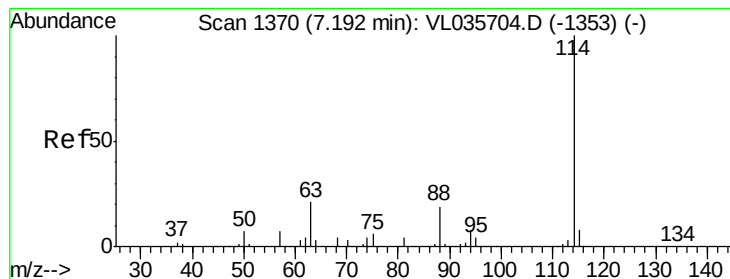
99 66.0 52.7 79.1

61 41.8 32.7 49.1



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19 min Scan# 1368

Delta R.T. -0.01 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

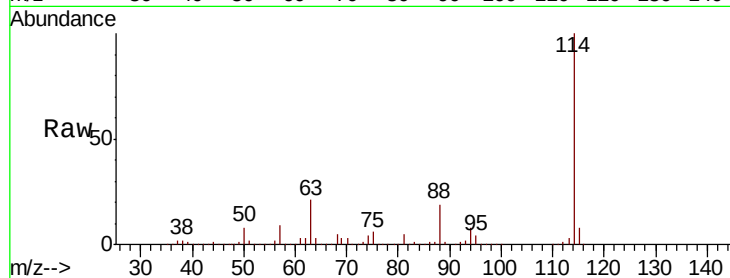
Tot Ion:114 Resp: 4701722

Ion Ratio Lower Upper

114 100

63 20.1 16.1 24.1

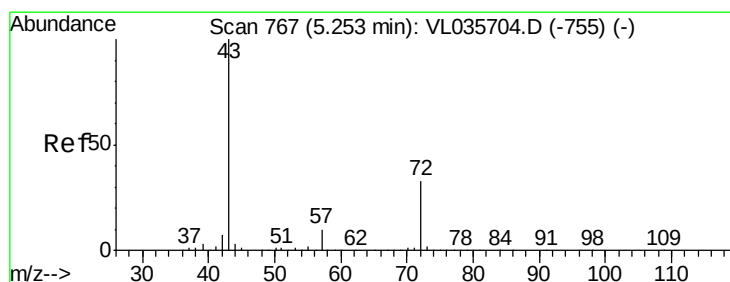
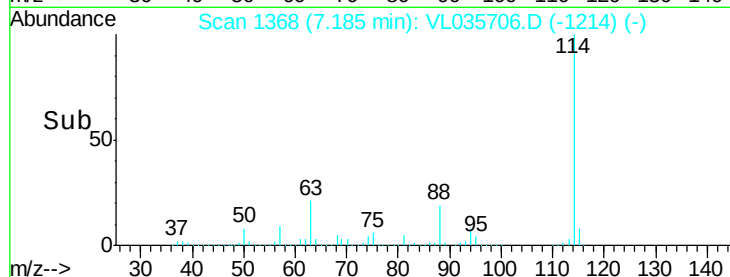
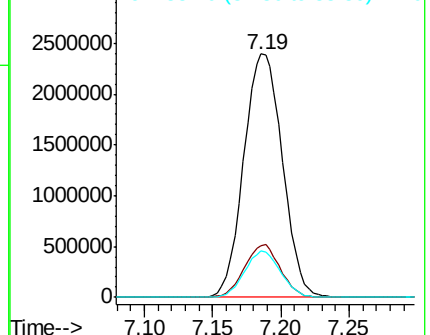
88 17.8 14.1 21.1



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 1.129 ppbv

RT: 5.26 min Scan# 768

Delta R.T. 0.00 min

Lab File: VL035706.D

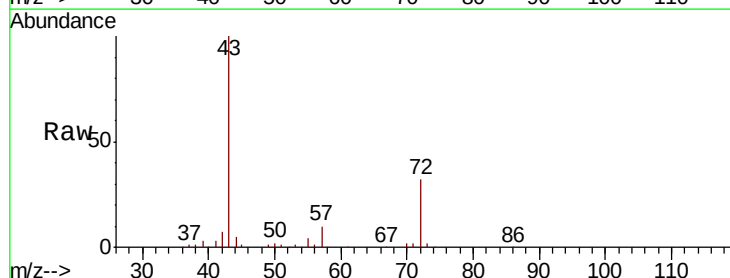
Acq: 23 Sep 2020 4:40

Tgt Ion: 43 Resp: 161574

Ion Ratio Lower Upper

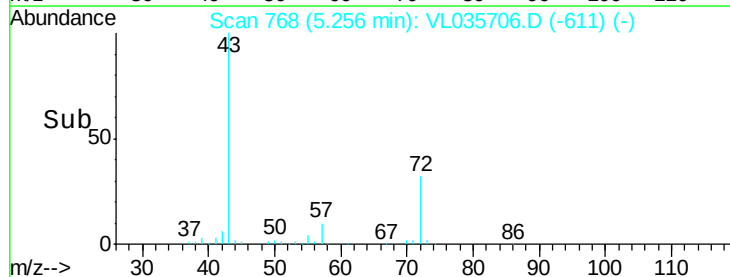
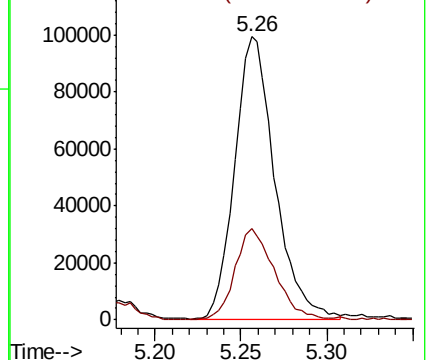
43 100

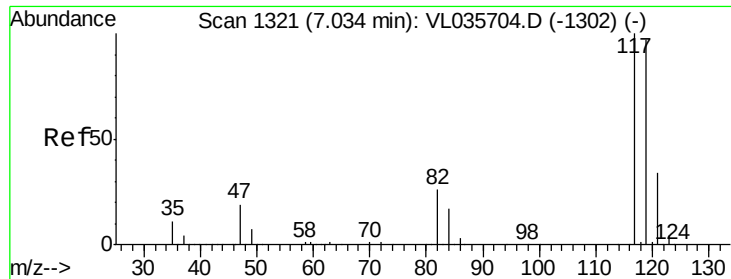
72 32.6 26.1 39.1



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

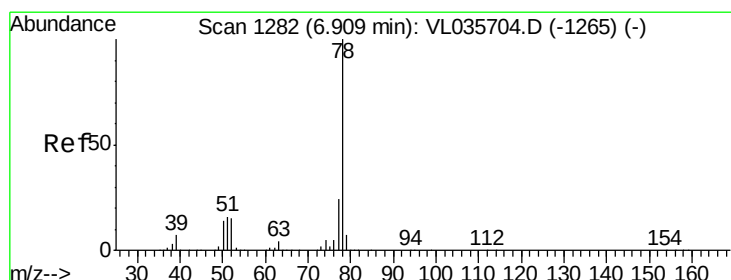
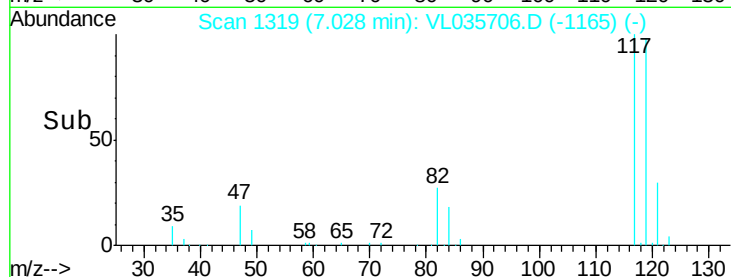
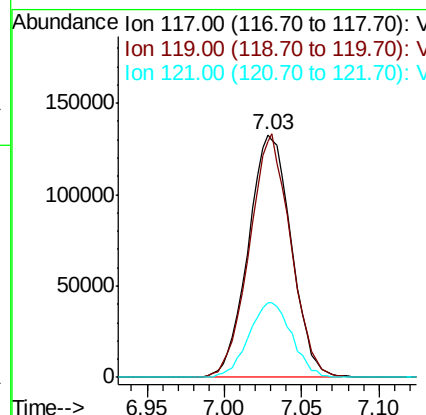
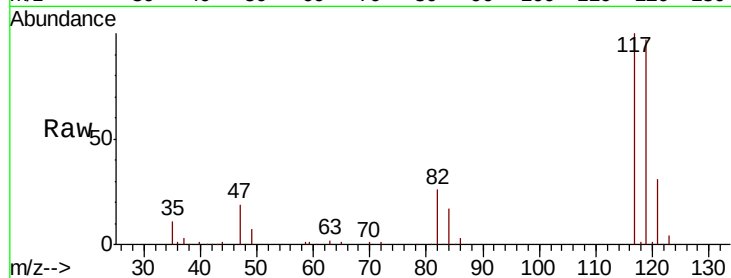




#35
Carbon Tetrachloride
Concen: 1.079 ppbv
RT: 7.03 min Scan# 1319
Delta R.T. -0.01 min
Lab File: VL035706.D
Acq: 23 Sep 2020 4:40

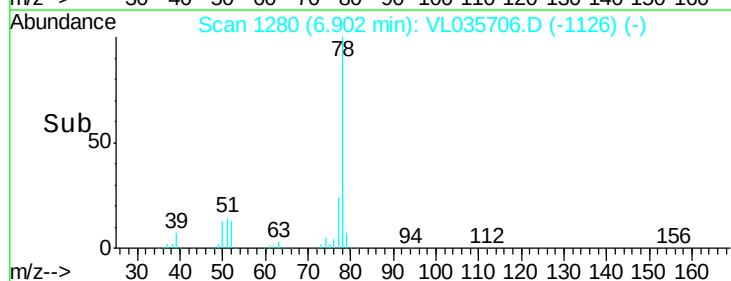
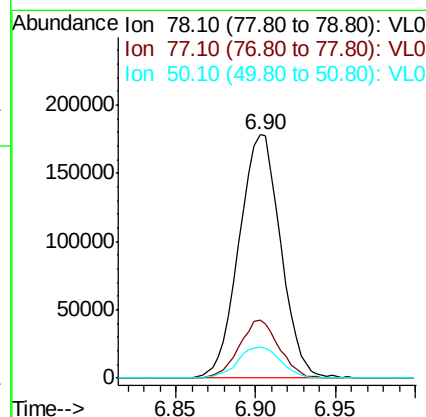
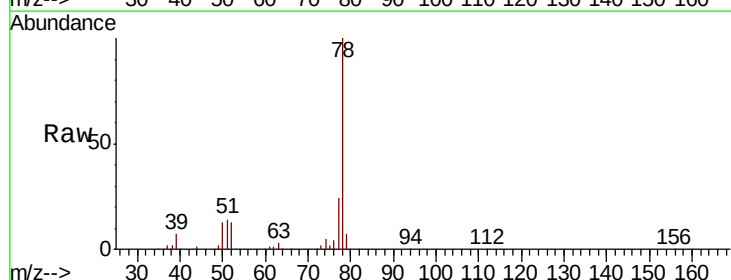
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

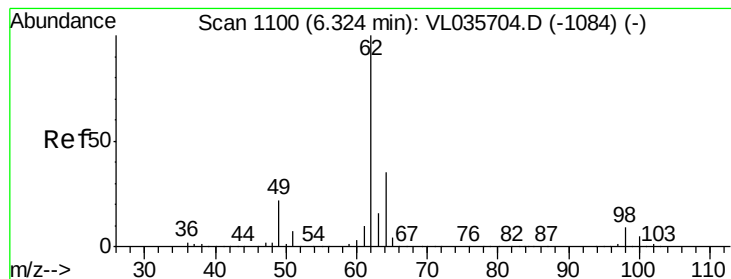
Tot Ion:117 Resp: 256273
Ion Ratio Lower Upper
117 100
119 97.3 77.7 116.5
121 30.6 26.9 40.3



#36
Benzene
Concen: 1.025 ppbv
RT: 6.90 min Scan# 1280
Delta R.T. -0.01 min
Lab File: VL035706.D
Acq: 23 Sep 2020 4:40

Tgt Ion: 78 Resp: 315195
Ion Ratio Lower Upper
78 100
77 23.8 19.3 28.9
50 12.7 11.6 17.4





#37

1,2-Dichloroethane

Concen: 1.147 ppbv

RT: 6.32 min Scan# 1098

Delta R.T. -0.01 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

Instrument :

MSVOA_L

ClientSampleId :

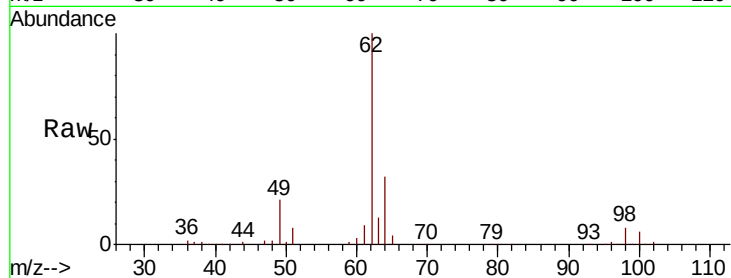
VSTDIC001

Tot Ion: 62 Resp: 169845

Ion Ratio Lower Upper

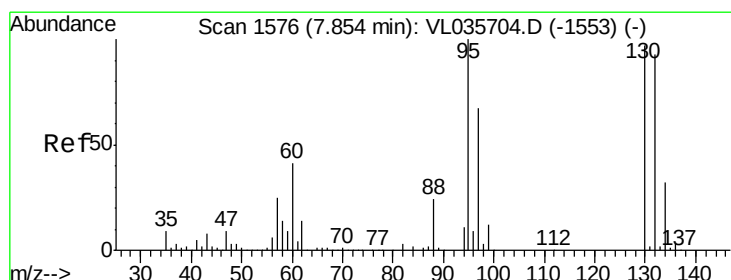
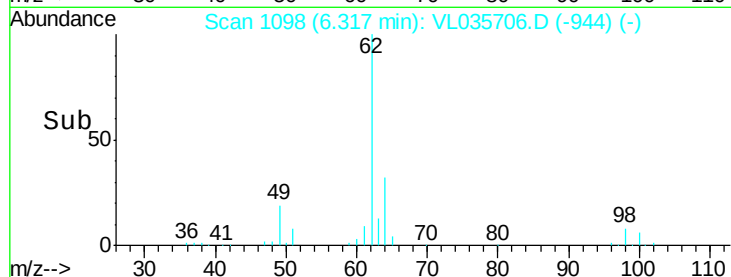
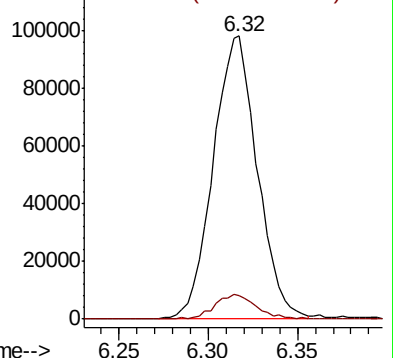
62 100

98 8.3 6.9 10.3



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#38

Trichloroethene

Concen: 0.919 ppbv

RT: 7.85 min Scan# 1575

Delta R.T. -0.00 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

Tgt Ion: 130 Resp: 162373

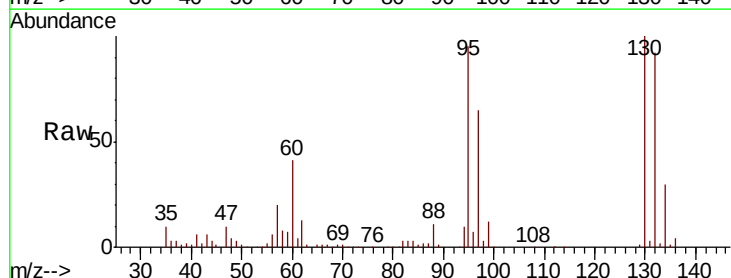
Ion Ratio Lower Upper

130 100

95 95.5 82.4 123.6

132 92.2 76.8 115.2

97 64.8 55.4 83.2

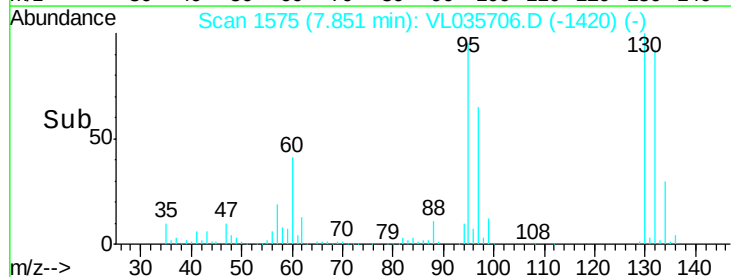
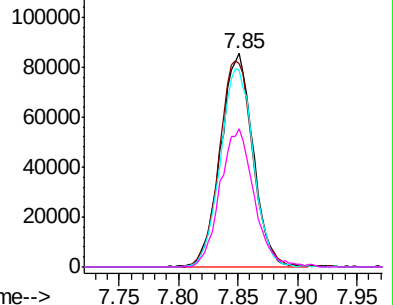


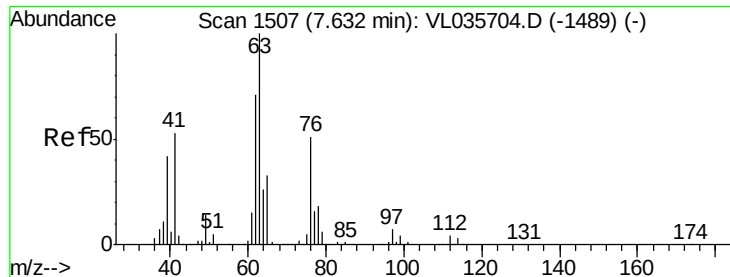
Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0





#39

1,2-Dichloropropane

Concen: 1.109 ppbv

RT: 7.62 min Scan# 1504

Delta R.T. -0.01 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

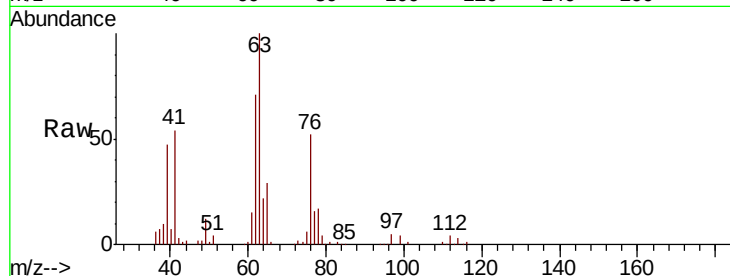
Tot Ion: 63 Resp: 116045

Ion Ratio Lower Upper

63 100

41 54.3 42.6 63.8

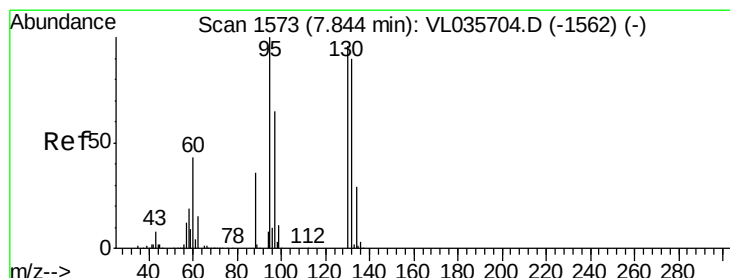
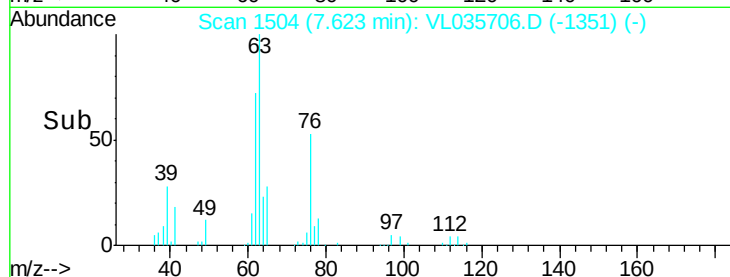
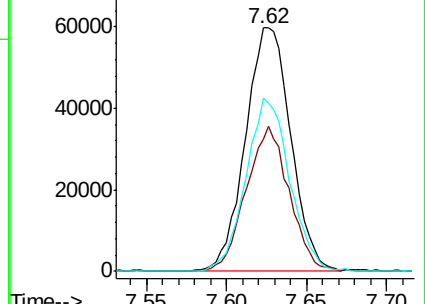
62 70.9 56.5 84.7



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: 1.077 ppbv

RT: 7.87 min Scan# 1580

Delta R.T. 0.02 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

Tgt Ion: 88 Resp: 54912

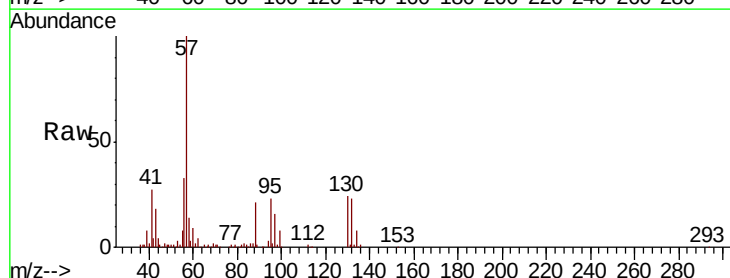
Ion Ratio Lower Upper

88 100

58 101.7 76.2 114.4

43 163.4 123.4 185.2

57 886.7 652.5 978.7

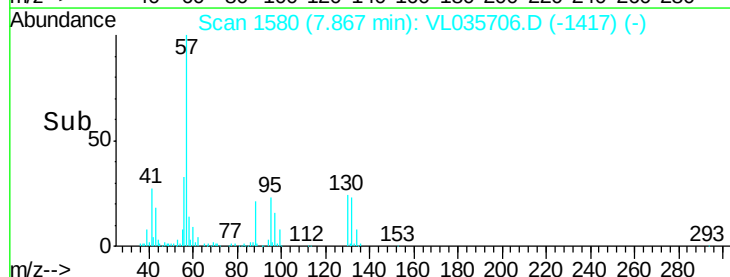
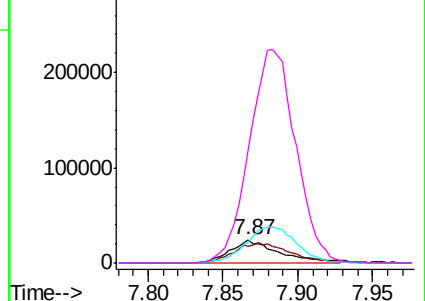


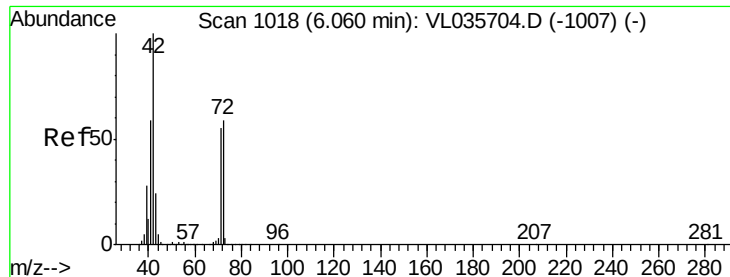
Abundance Ion 88.10 (87.80 to 88.80): VL0

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

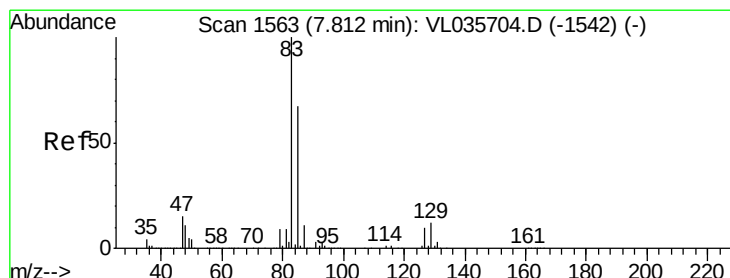
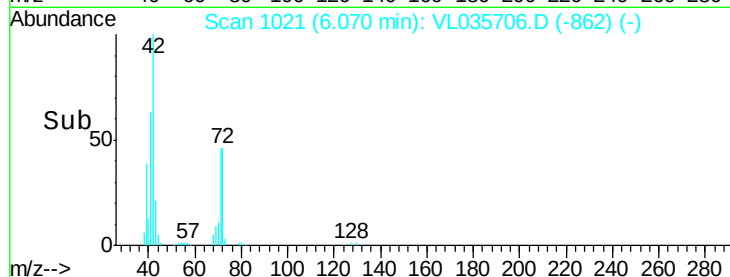
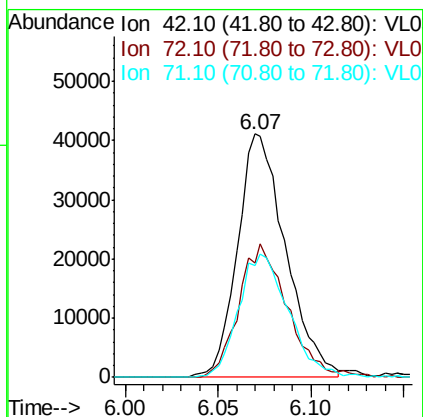
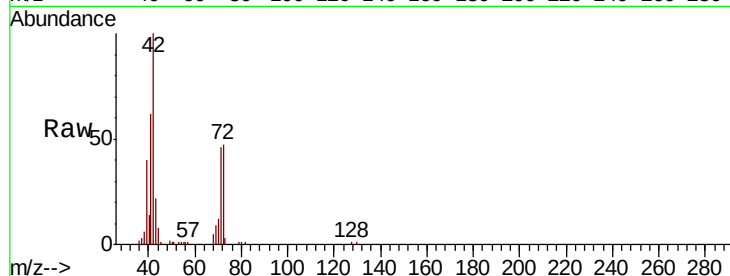




#41
Tetrahydrofuran
Concen: 0.978 ppbv
RT: 6.07 min Scan# 1021
Delta R.T. 0.01 min
Lab File: VL035706.D
Acq: 23 Sep 2020 4:40

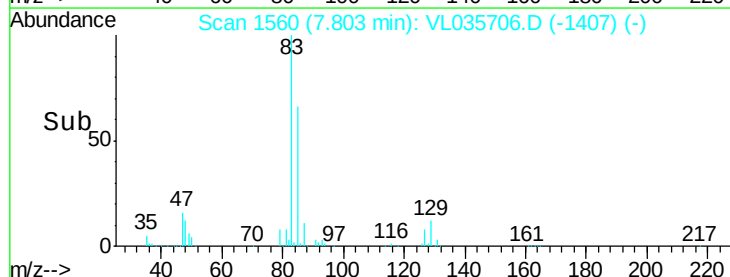
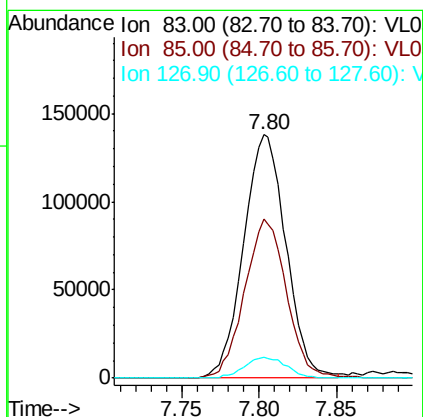
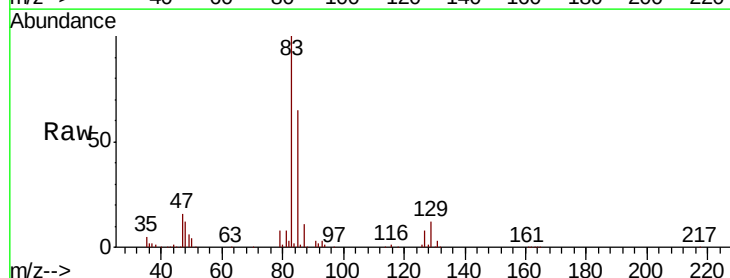
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

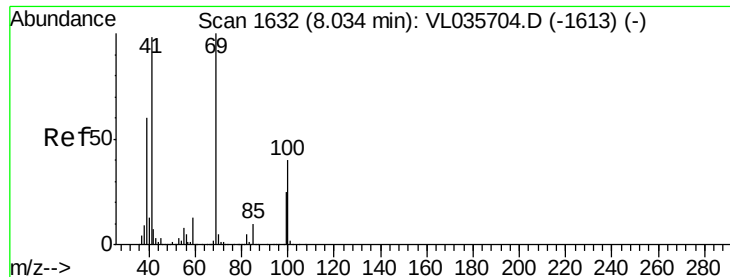
Tot Ion: 42 Resp: 74103
Ion Ratio Lower Upper
42 100
72 55.4 46.2 69.4
71 52.7 44.2 66.4



#42
Bromodichloromethane
Concen: 1.099 ppbv
RT: 7.80 min Scan# 1560
Delta R.T. -0.01 min
Lab File: VL035706.D
Acq: 23 Sep 2020 4:40

Tgt Ion: 83 Resp: 262375
Ion Ratio Lower Upper
83 100
85 65.5 53.4 80.0
127 8.5 7.8 11.6





#43

Methyl Methacrylate

Concen: 0.967 ppbv

RT: 8.03 min Scan# 1631

Delta R.T. -0.00 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

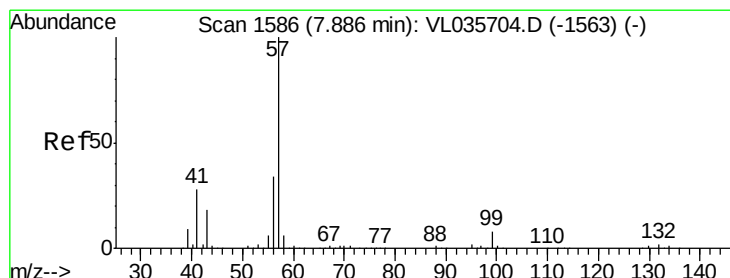
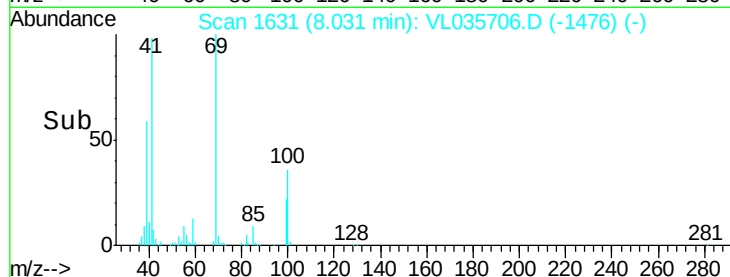
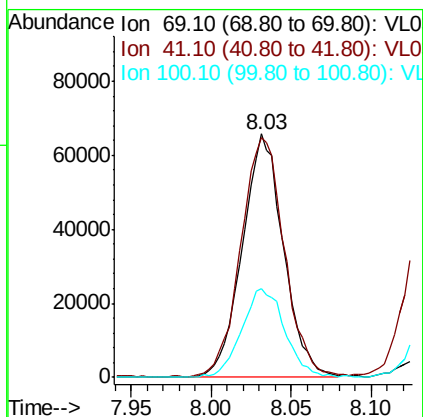
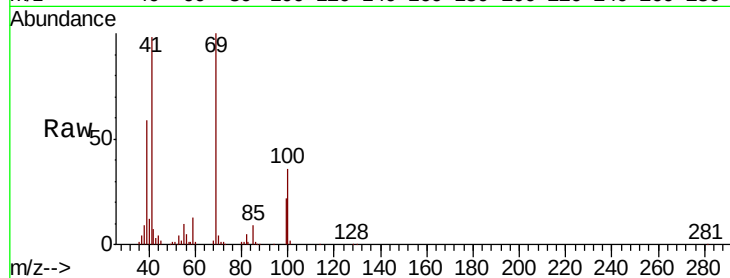
Tot Ion: 69 Resp: 115885

Ion Ratio Lower Upper

69 100

41 104.3 79.8 119.6

100 38.3 30.6 46.0



#44

2,2,4-Trimethylpentane

Concen: 1.184 ppbv

RT: 7.88 min Scan# 1585

Delta R.T. -0.00 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

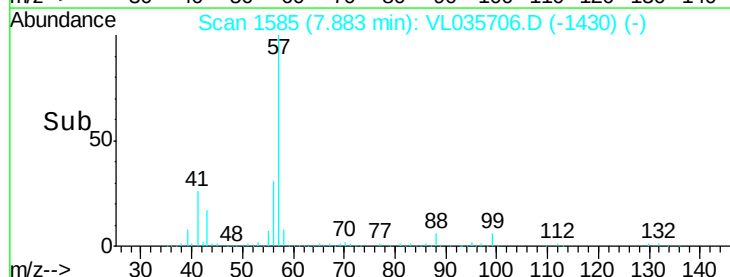
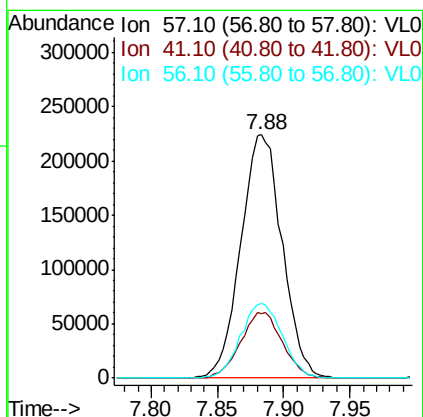
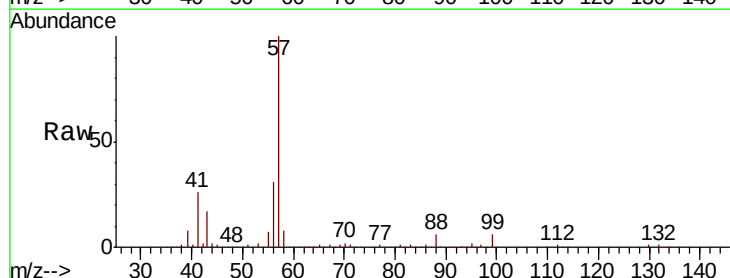
Tgt Ion: 57 Resp: 485633

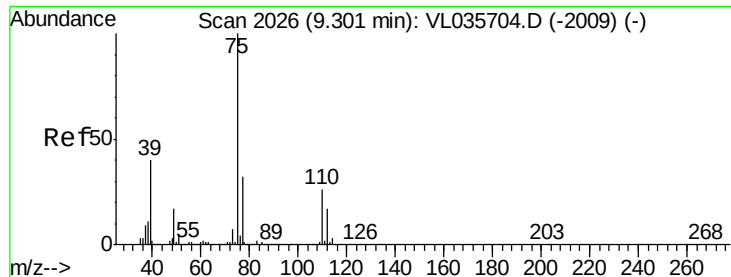
Ion Ratio Lower Upper

57 100

41 27.3 21.2 31.8

56 31.2 25.8 38.8





#45

t-1,3-Dichloropropene

Concen: 0.846 ppbv

RT: 9.29 min Scan# 2024

Delta R.T. -0.01 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

Instrument :

MSVOA_L

ClientSampleId :

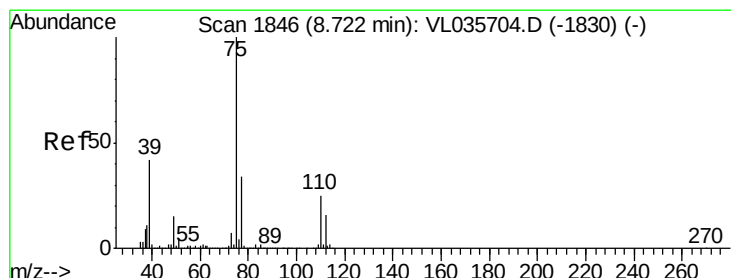
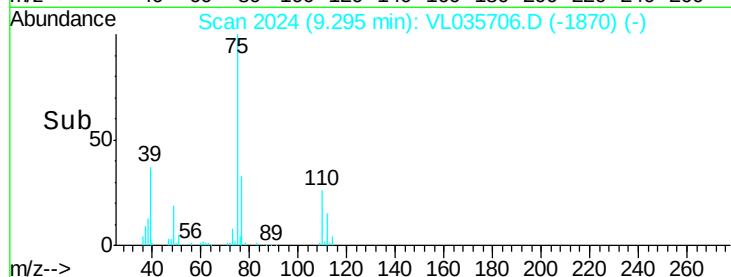
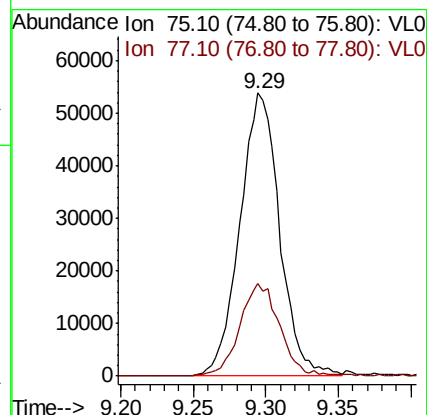
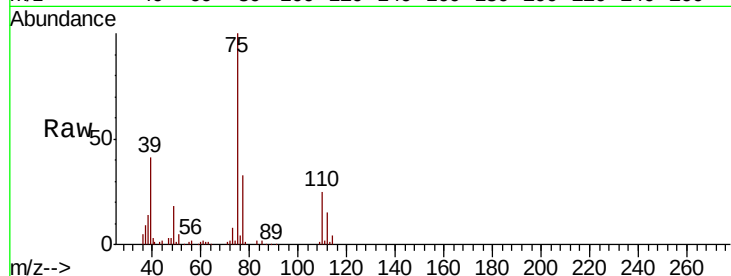
VSTDIC001

Tot Ion: 75 Resp: 102452

Ion Ratio Lower Upper

75 100

77 32.8 25.9 38.9



#46

cis-1,3-Dichloropropene

Concen: 0.892 ppbv

RT: 8.72 min Scan# 1845

Delta R.T. -0.00 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

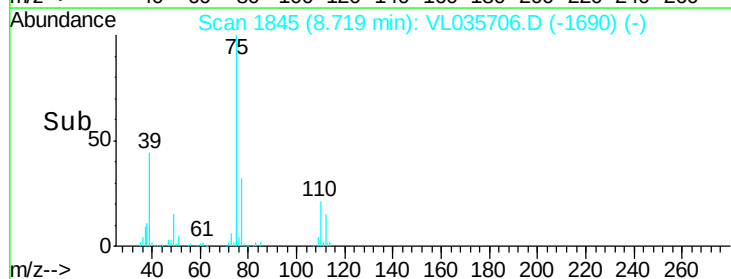
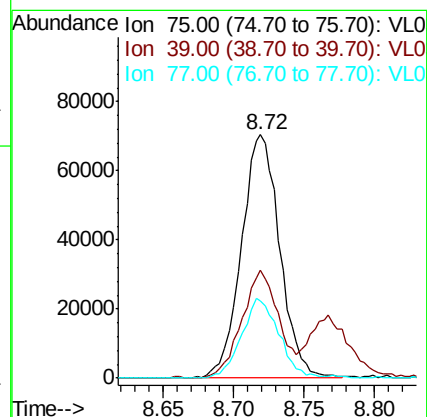
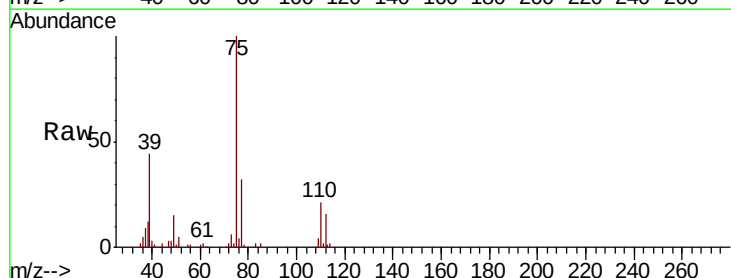
Tgt Ion: 75 Resp: 134186

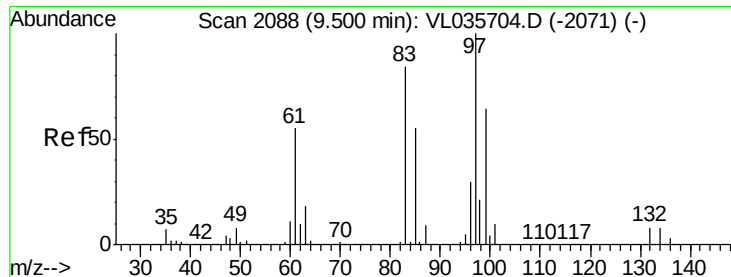
Ion Ratio Lower Upper

75 100

39 44.2 33.9 50.9

77 31.7 27.4 41.0

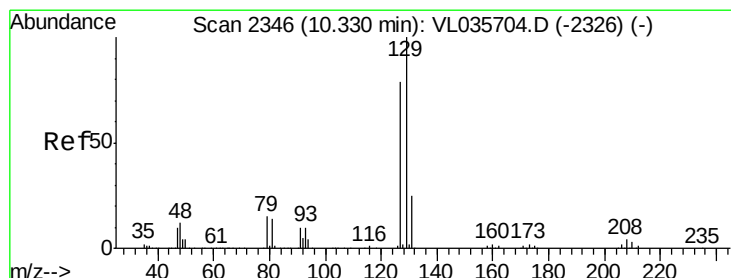
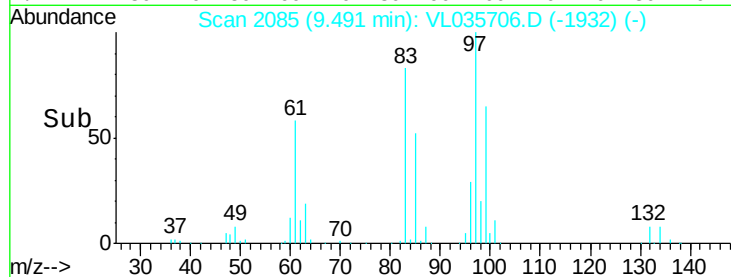
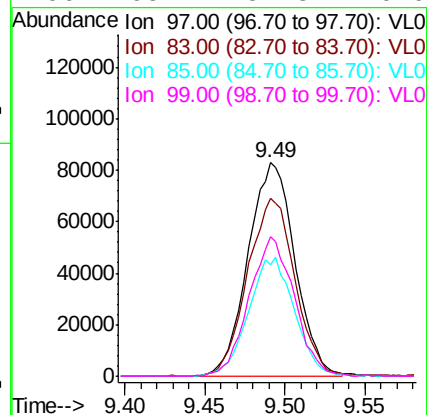
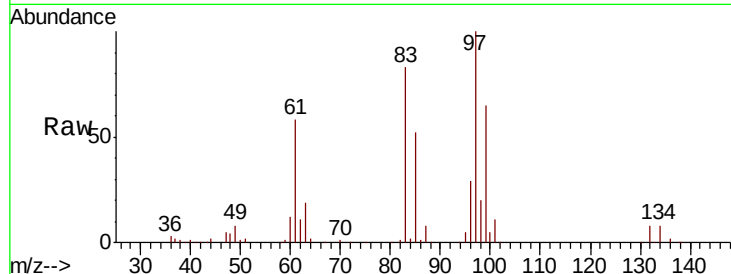




#47
 1,1,2-Trichloroethane
 Concen: 1.090 ppbv
 RT: 9.49 min Scan# 2085
 Delta R.T. -0.01 min
 Lab File: VL035706.D
 Acq: 23 Sep 2020 4:40

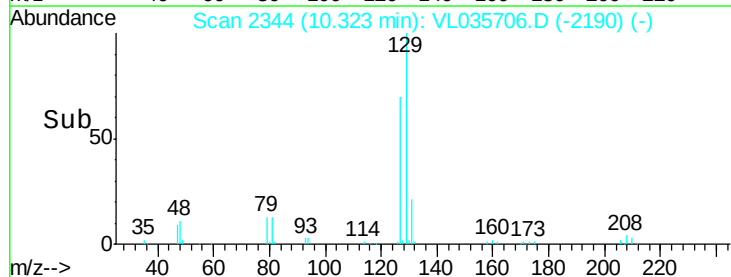
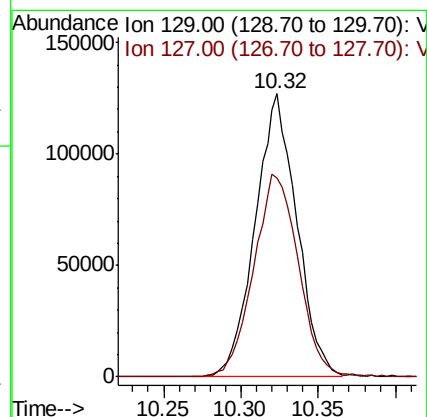
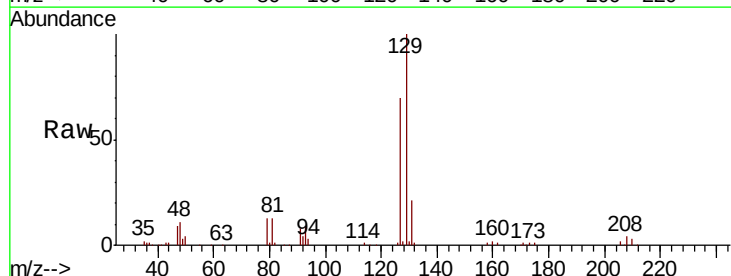
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

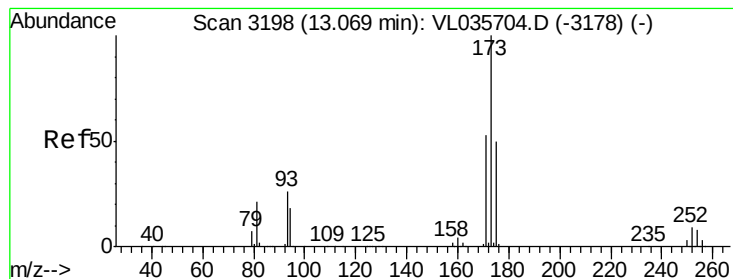
Tot Ion: 97	Resp: 166908
Ion Ratio	Lower Upper
97 100	
83 83.3	67.1 100.7
85 52.2	43.9 65.9
99 65.1	51.3 76.9



#48
 Dibromochloromethane
 Concen: 0.993 ppbv
 RT: 10.32 min Scan# 2344
 Delta R.T. -0.01 min
 Lab File: VL035706.D
 Acq: 23 Sep 2020 4:40

Tgt	Ion:129	Resp:	237315
Ion	Ratio	Lower	Upper
129	100		
127	77.4	39.4	118.1





#49

Bromoform

Concen: 0.911 ppbv

RT: 13.06 min Scan# 3195

Delta R.T. -0.01 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

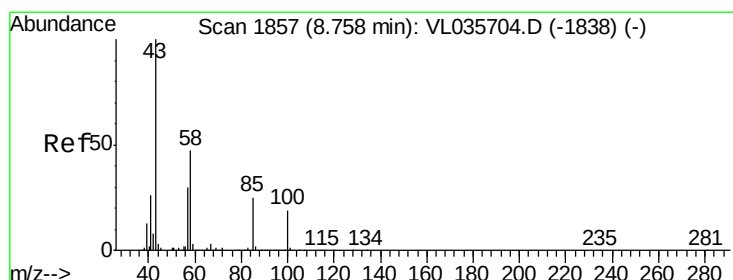
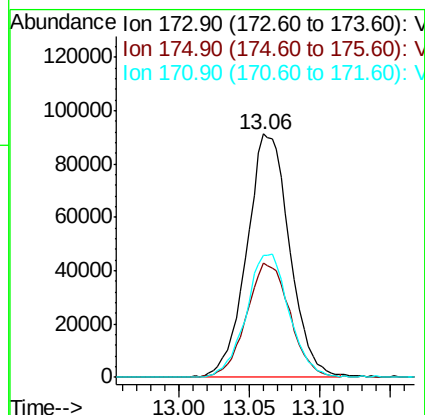
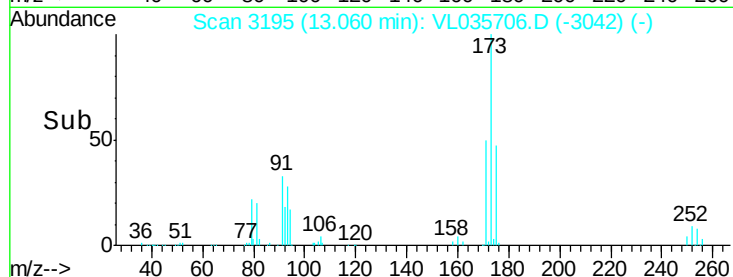
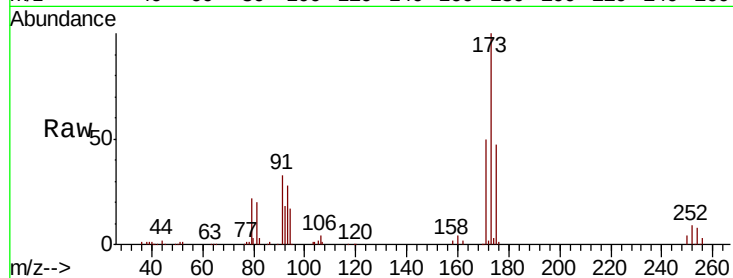
Tot Ion:173 Resp: 193981

Ion Ratio Lower Upper

173 100

175 47.7 39.8 59.6

171 51.2 42.8 64.2



#50

4-Methyl-2-Pentanone

Concen: 1.135 ppbv

RT: 8.77 min Scan# 1860

Delta R.T. 0.01 min

Lab File: VL035706.D

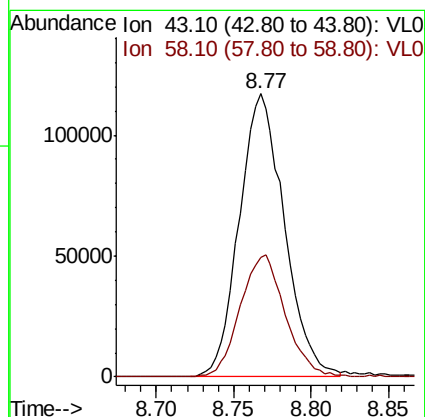
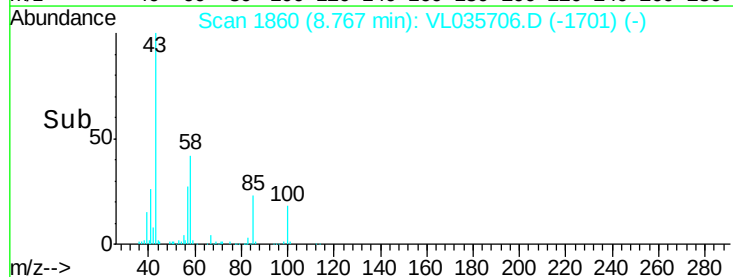
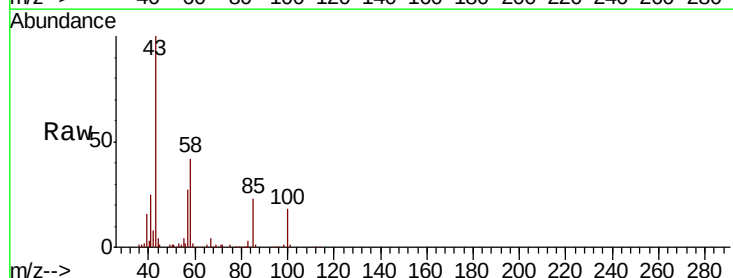
Acq: 23 Sep 2020 4:40

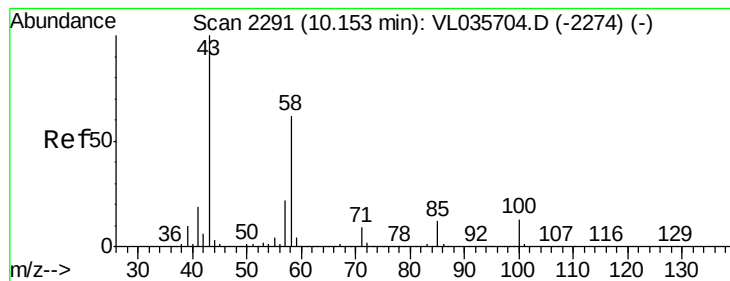
Tgt Ion: 43 Resp: 236009

Ion Ratio Lower Upper

43 100

58 43.6 36.6 54.8





#51

2-Hexanone

Concen: 1.061 ppbv

RT: 10.17 min Scan# 2295

Delta R.T. 0.01 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

Instrument :

MSVOA_L

ClientSampled :

VSTDIC001

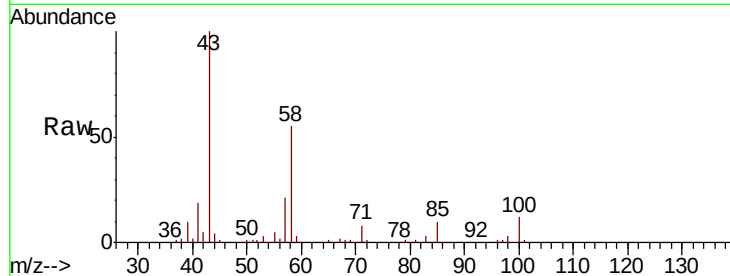
Tot Ion: 43 Resp: 180362

Ion Ratio Lower Upper

43 100

58 56.7 48.7 73.1

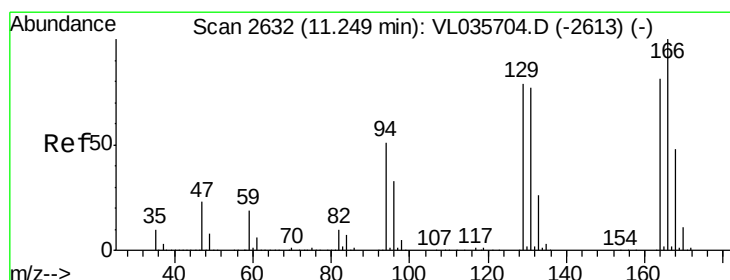
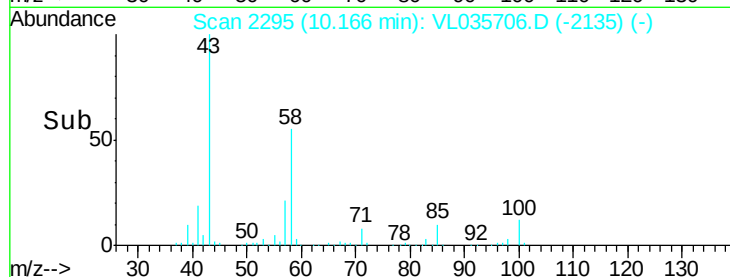
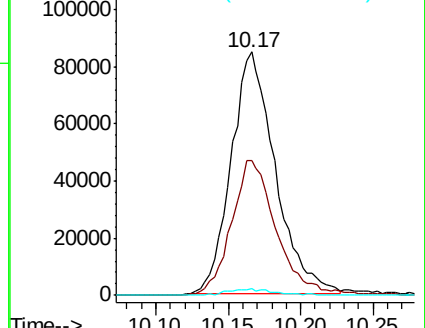
98 2.9 0.7 1.1#



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: 0.515 ppbv

RT: 11.24 min Scan# 2630

Delta R.T. -0.01 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

Tgt Ion: 164 Resp: 90267

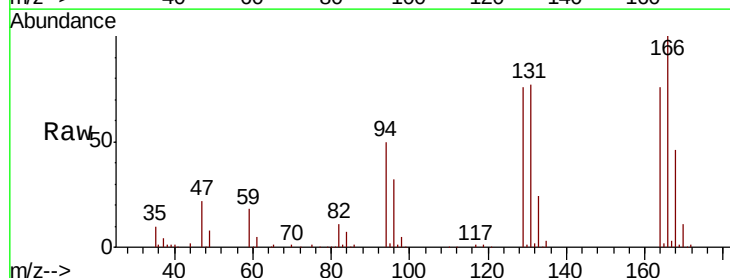
Ion Ratio Lower Upper

164 100

166 131.6 98.7 148.1

129 99.7 78.4 117.6

131 101.7 76.2 114.2

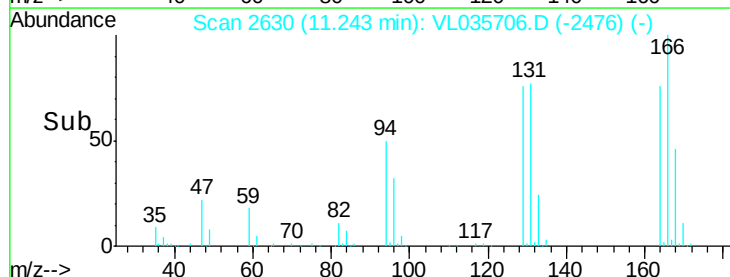
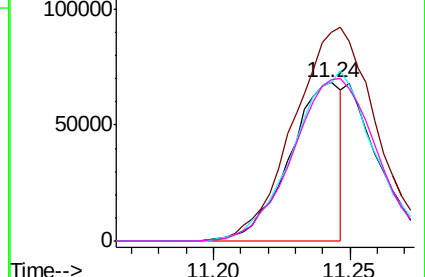


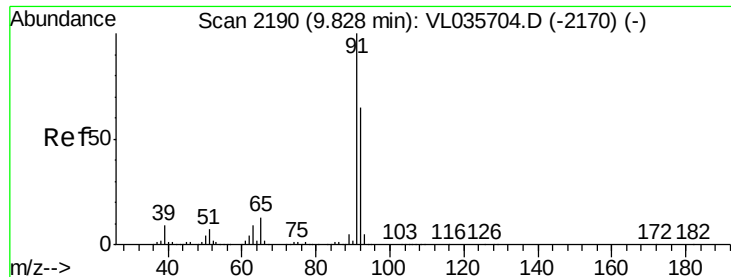
Abundance Ion 163.90 (163.60 to 164.60): V

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: 0.926 ppbv

RT: 9.83 min Scan# 2189

Delta R.T. -0.00 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

Instrument :

MSVOA_L

ClientSampleId :

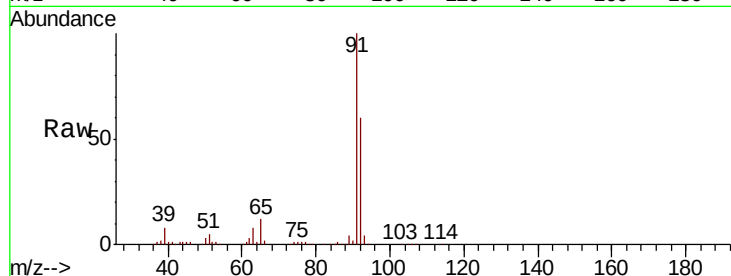
VSTDIC001

Tot Ion: 91 Resp: 357125

Ion Ratio Lower Upper

91 100

92 60.3 50.0 75.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

9.83

200000

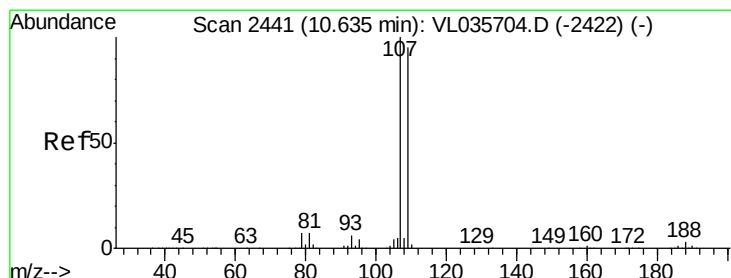
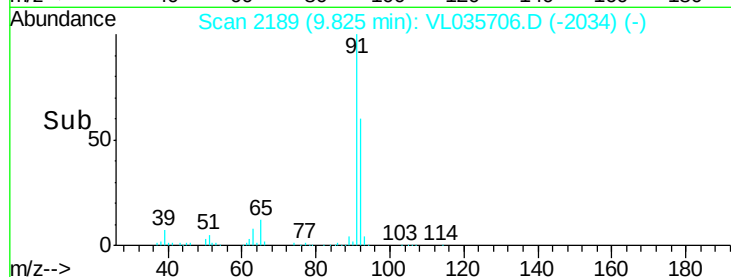
150000

100000

50000

0

Time-->



#54

1,2-Dibromoethane

Concen: 1.011 ppbv

RT: 10.63 min Scan# 2439

Delta R.T. -0.01 min

Lab File: VL035706.D

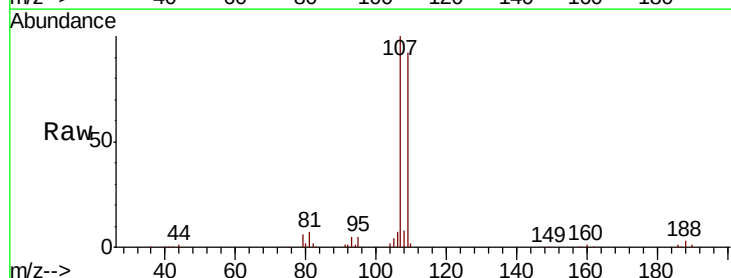
Acq: 23 Sep 2020 4:40

Tgt Ion: 107 Resp: 243668

Ion Ratio Lower Upper

107 100

109 91.6 76.0 114.0



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

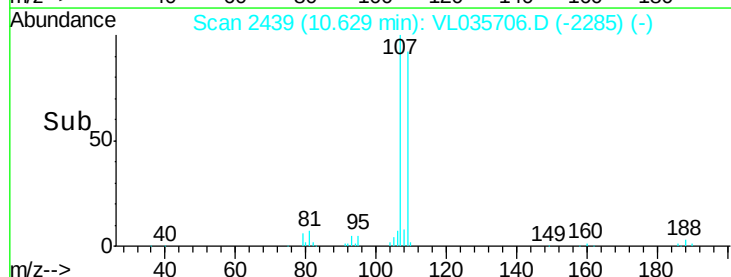
10.63

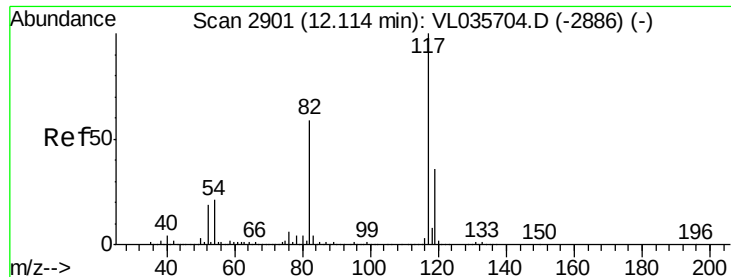
100000

50000

0

Time-->

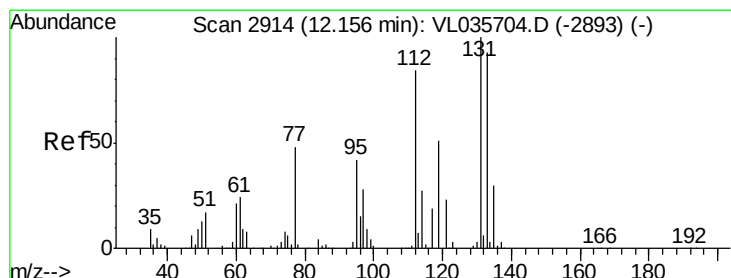
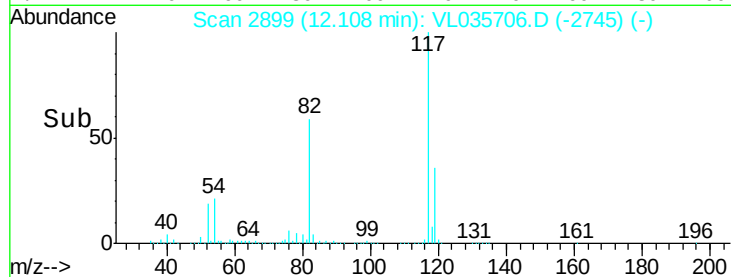
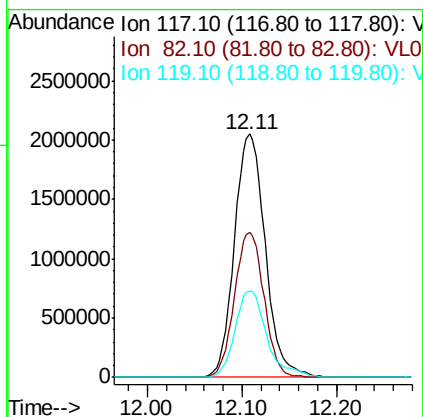
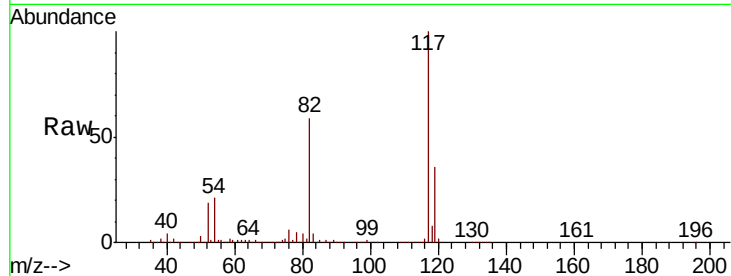




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2899
Delta R.T. -0.01 min
Lab File: VL035706.D
Acq: 23 Sep 2020 4:40

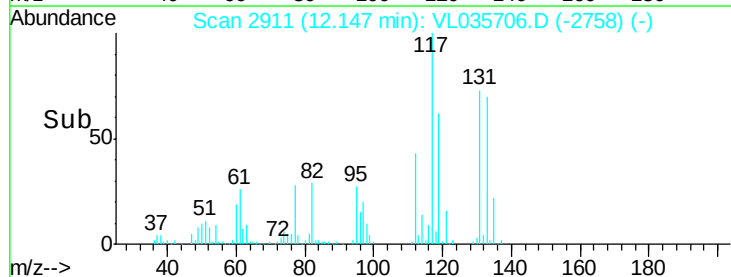
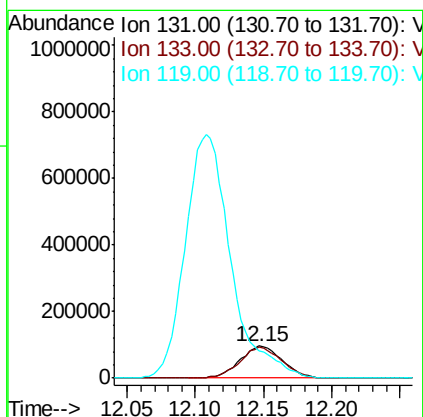
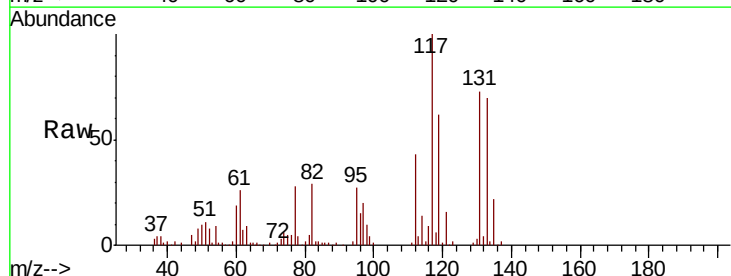
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

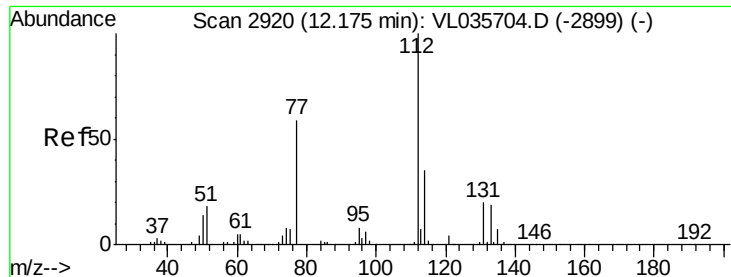
Tot Ion:117 Resp: 4662480
Ion Ratio Lower Upper
117 100
82 57.0 46.1 69.1
119 36.7 28.0 42.0



#56
1,1,1,2-Tetrachloroethane
Concen: 1.084 ppbv
RT: 12.15 min Scan# 2911
Delta R.T. -0.01 min
Lab File: VL035706.D
Acq: 23 Sep 2020 4:40

Tgt Ion:131 Resp: 207703
Ion Ratio Lower Upper
131 100
133 95.2 76.2 114.4
119 823.6 52.4 78.6#

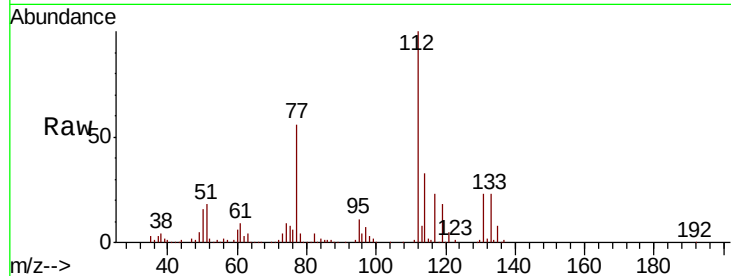




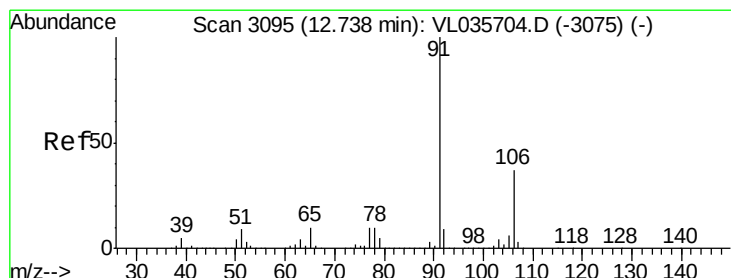
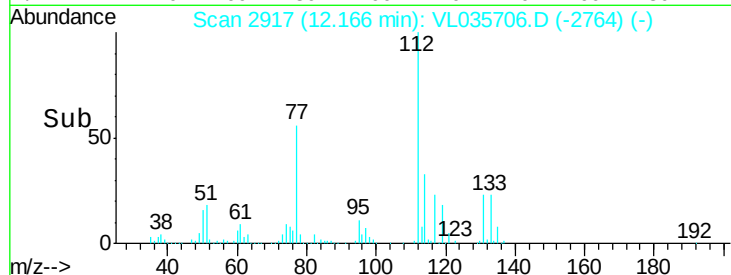
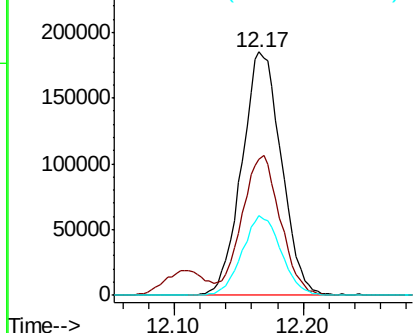
#57
Chlorobenzene
Concen: 1.135 ppbv
RT: 12.17 min Scan# 2917
Delta R.T. -0.01 min
Lab File: VL035706.D
Acq: 23 Sep 2020 4:40

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tot Ion:112 Resp: 394592
Ion Ratio Lower Upper
112 100
77 55.6 48.2 72.2
114 32.6 31.9 39.1

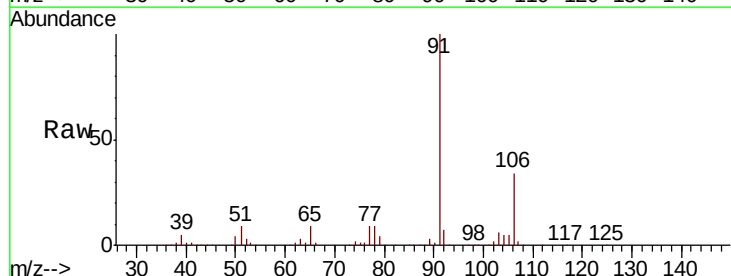


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 77.10 (76.80 to 77.80): VL0
Ion 114.10 (113.80 to 114.80): V

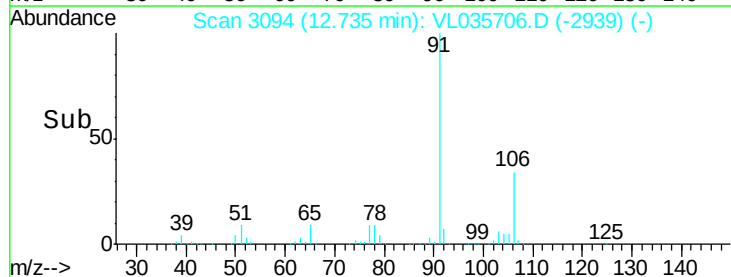
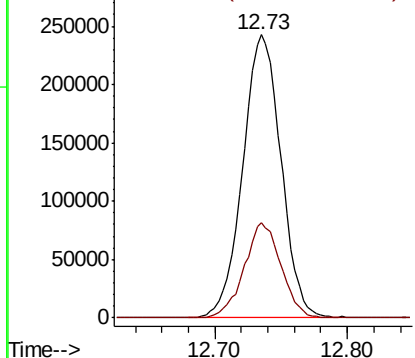


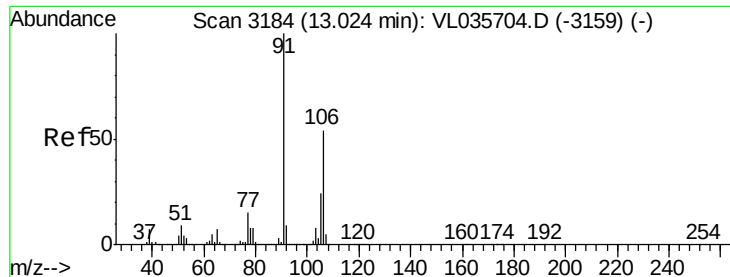
#58
Ethyl Benzene
Concen: 0.993 ppbv
RT: 12.73 min Scan# 3094
Delta R.T. -0.00 min
Lab File: VL035706.D
Acq: 23 Sep 2020 4:40

Tgt Ion: 91 Resp: 486356
Ion Ratio Lower Upper
91 100
106 33.6 29.7 44.5



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





#59

m/p-Xylene

Concen: 1.319 ppbv

RT: 13.02 min Scan# 3182

Delta R.T. -0.01 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

Instrument :

MSVOA_L

ClientSampleId :

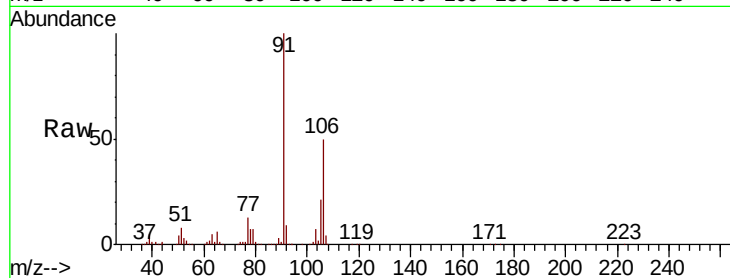
VSTDIC001

Tot Ion: 91 Resp: 543101

Ion Ratio Lower Upper

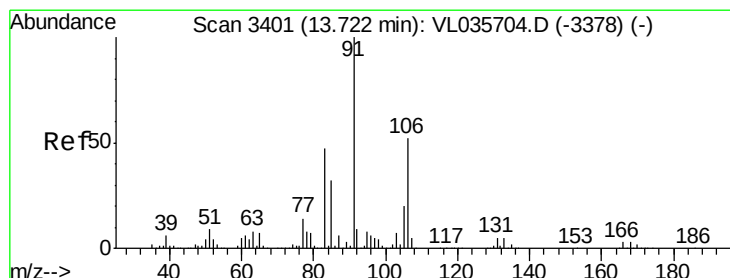
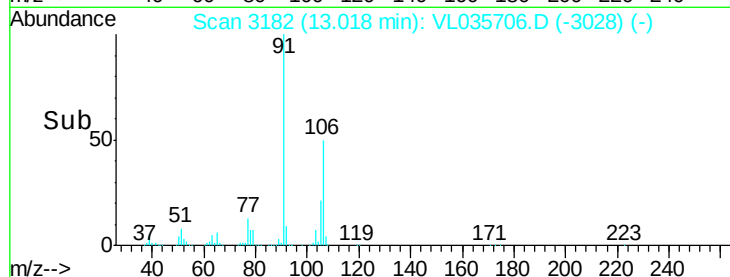
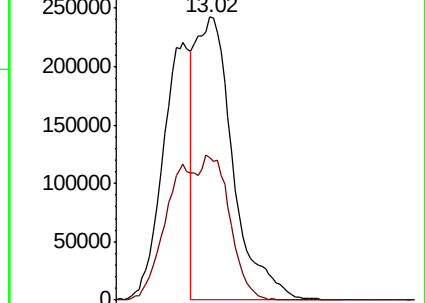
91 100

106 81.1 41.4 62.0#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 1.073 ppbv

RT: 13.72 min Scan# 3399

Delta R.T. -0.01 min

Lab File: VL035706.D

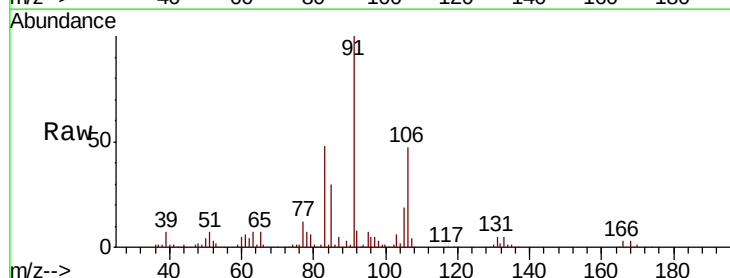
Acq: 23 Sep 2020 4:40

Tgt Ion: 91 Resp: 444545

Ion Ratio Lower Upper

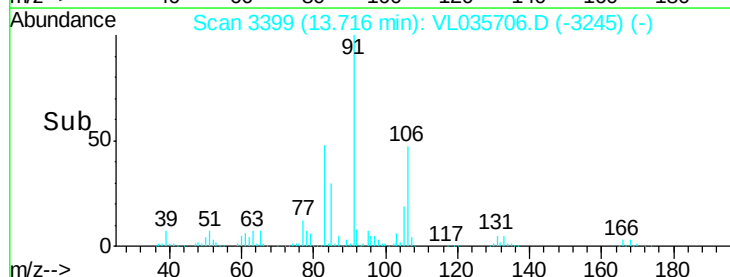
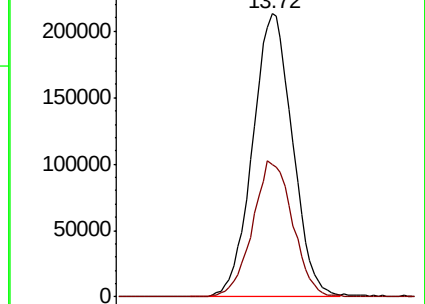
91 100

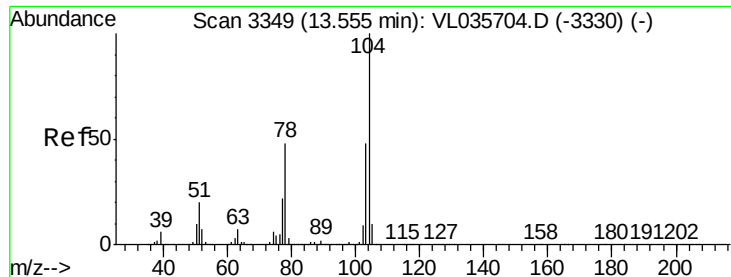
106 48.3 25.0 75.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#61

Stvrene

Concen: 0.886 ppbv

RT: 13.55 min Scan# 3349

Delta R.T. 0.00 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

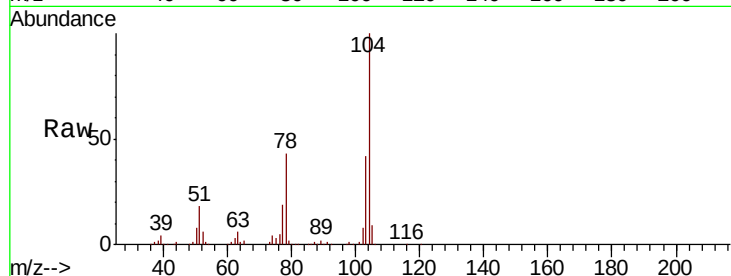
Tot Ion:104 Resp: 277165

Ion Ratio Lower Upper

104 100

78 44.3 37.2 55.8

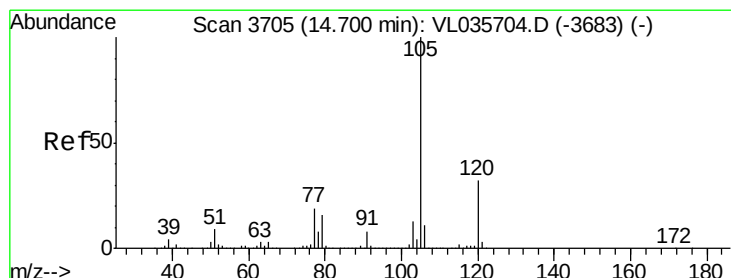
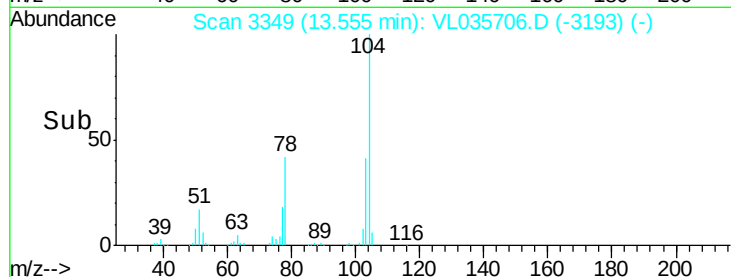
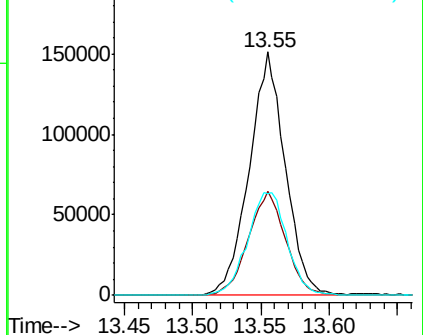
103 46.8 38.2 57.2



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 1.071 ppbv

RT: 14.69 min Scan# 3703

Delta R.T. -0.01 min

Lab File: VL035706.D

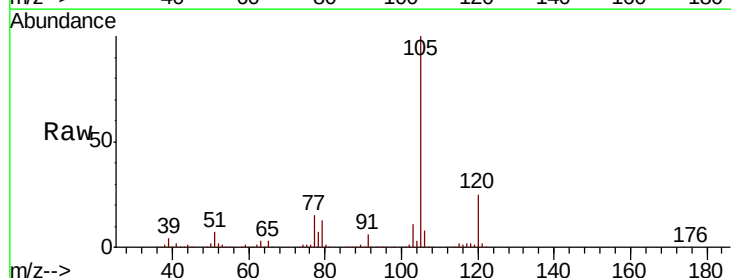
Acq: 23 Sep 2020 4:40

Tgt Ion:105 Resp: 706547

Ion Ratio Lower Upper

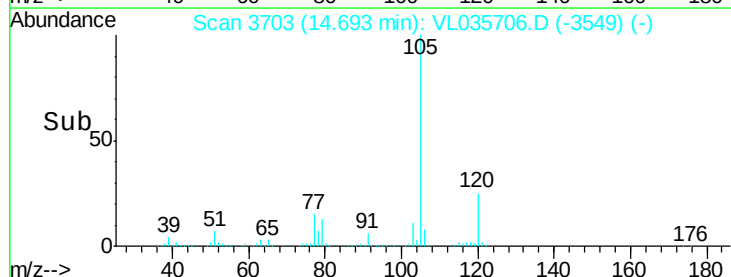
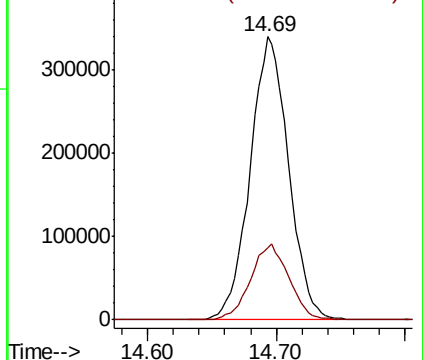
105 100

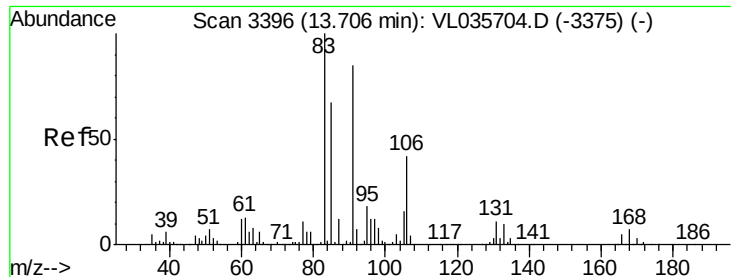
120 26.7 24.1 36.1



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

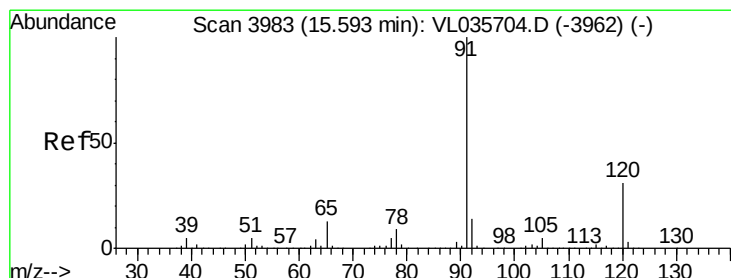
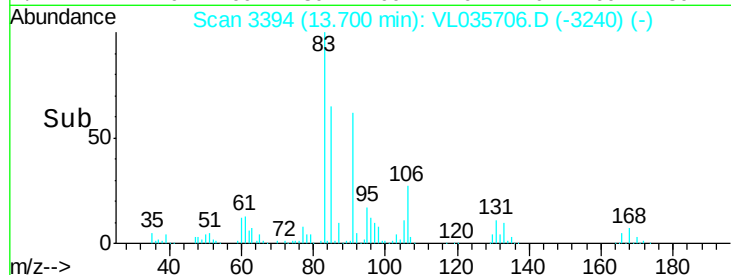
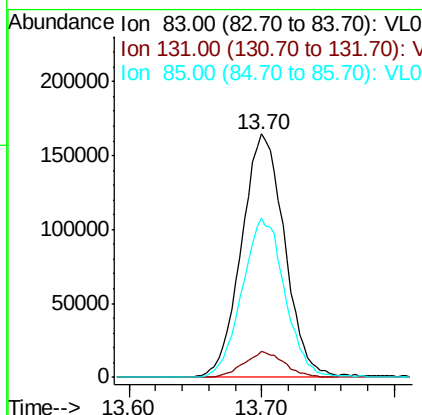
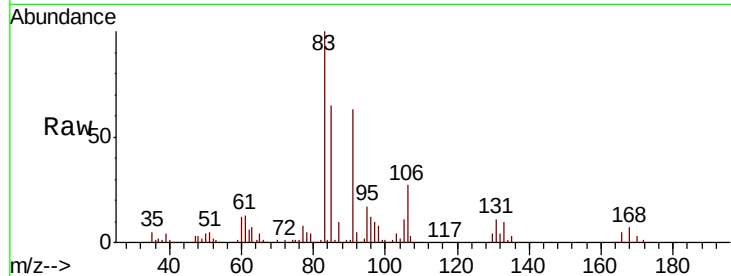




#63
 1,1,2,2-Tetrachloroethane
 Concen: 1.159 ppbv
 RT: 13.70 min Scan# 3394
 Delta R.T. -0.01 min
 Lab File: VL035706.D
 Acq: 23 Sep 2020 4:40

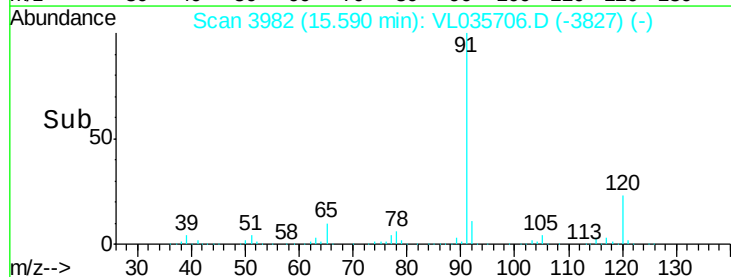
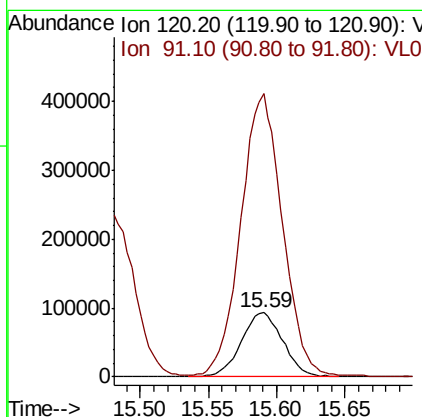
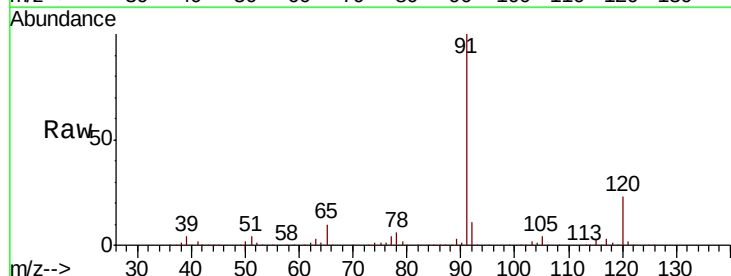
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

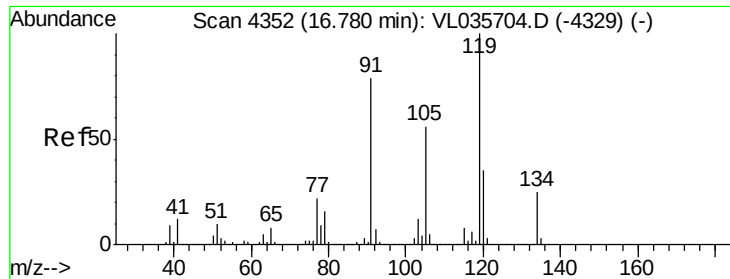
Tot Ion: 83 Resp: 371542
 Ion Ratio Lower Upper
 83 100
 131 10.0 5.3 16.1
 85 65.4 33.4 100.2



#64
 n-propylbenzene
 Concen: 0.984 ppbv
 RT: 15.59 min Scan# 3982
 Delta R.T. -0.00 min
 Lab File: VL035706.D
 Acq: 23 Sep 2020 4:40

Tgt Ion: 120 Resp: 196453
 Ion Ratio Lower Upper
 120 100
 91 445.4 300.4 450.6

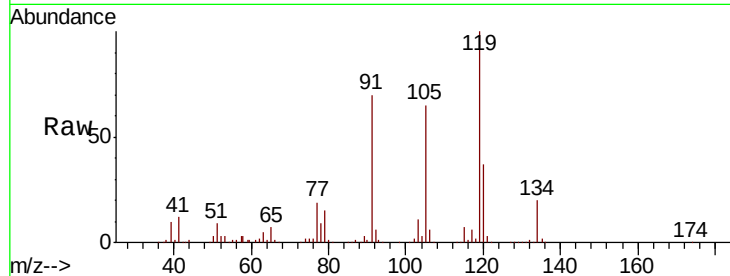




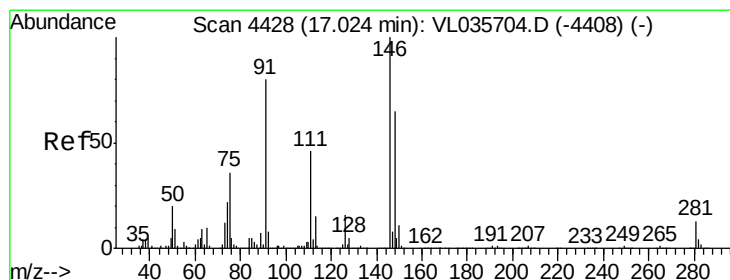
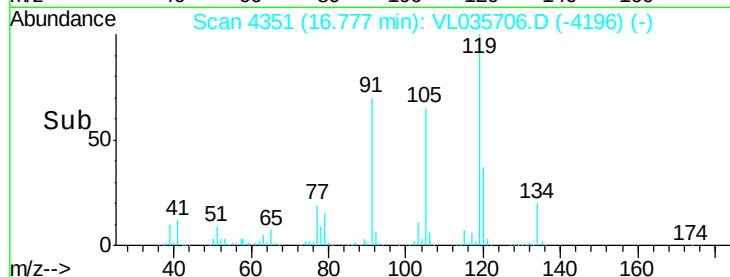
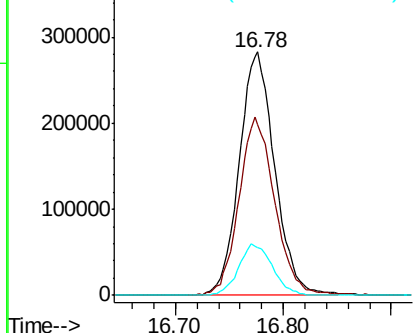
#65
 tert-Butylbenzene
 Concen: 1.058 ppbv
 RT: 16.78 min Scan# 4351
 Delta R.T. -0.00 min
 Lab File: VL035706.D
 Acq: 23 Sep 2020 4:40

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tot Ion: 119 Resp: 645633
 Ion Ratio Lower Upper
 119 100
 91 74.7 62.4 93.6
 134 20.4 18.2 27.2

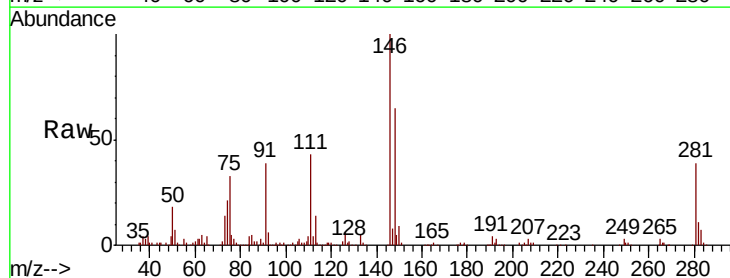


Abundance Ion 119.20 (118.90 to 119.90): V
 Ion 91.10 (90.80 to 91.80): VL0
 Ion 134.20 (133.90 to 134.90): V

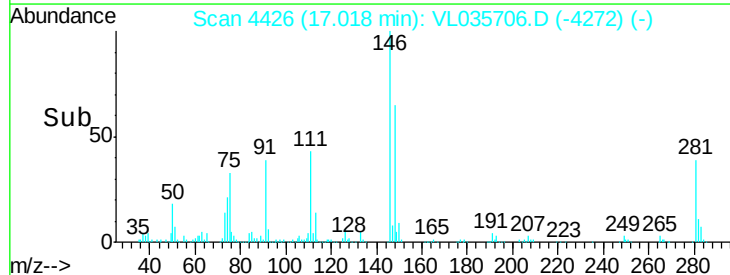
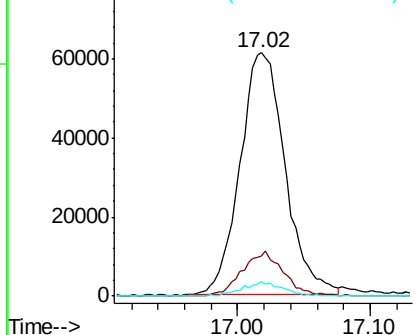


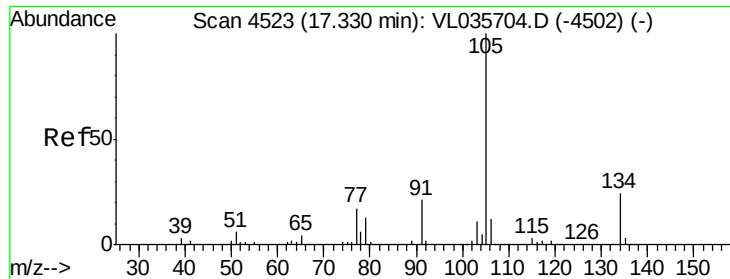
#66
 Benzyl Chloride
 Concen: 0.923 ppbv
 RT: 17.02 min Scan# 4426
 Delta R.T. -0.01 min
 Lab File: VL035706.D
 Acq: 23 Sep 2020 4:40

Tgt Ion: 91 Resp: 144675
 Ion Ratio Lower Upper
 91 100
 126 16.9 15.3 22.9
 128 5.2 5.0 7.4



Abundance Ion 91.10 (90.80 to 91.80): VL0
 Ion 126.10 (125.80 to 126.80): V
 Ion 128.10 (127.80 to 128.80): V

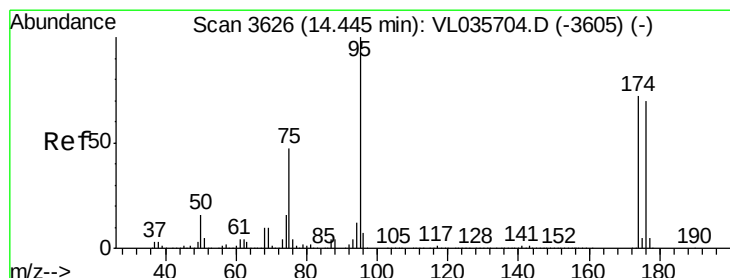
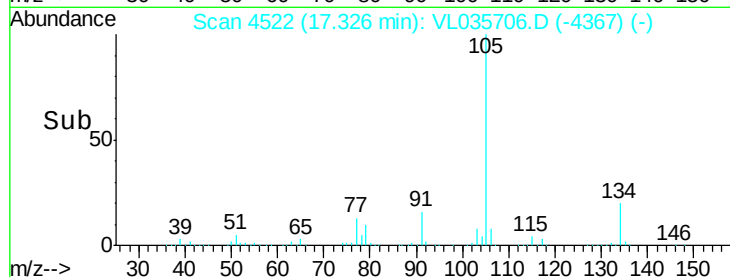
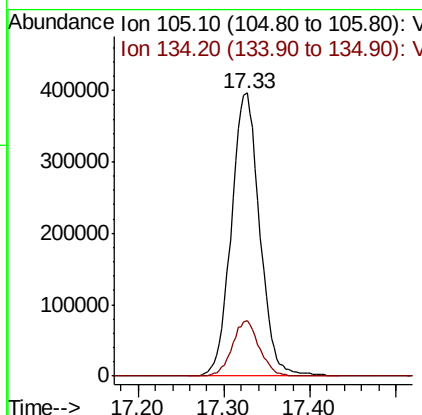
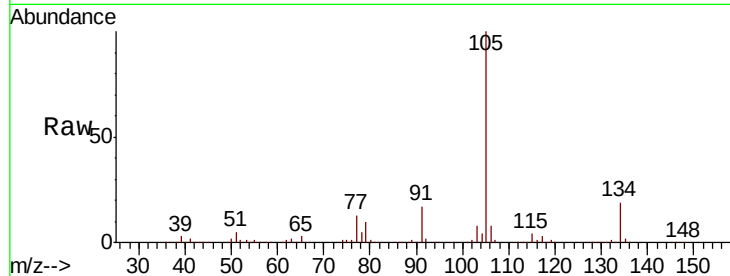




#67
 sec-Butylbenzene
 Concen: 1.110 ppbv
 RT: 17.33 min Scan# 4522
 Delta R.T. -0.00 min
 Lab File: VL035706.D
 Acq: 23 Sep 2020 4:40

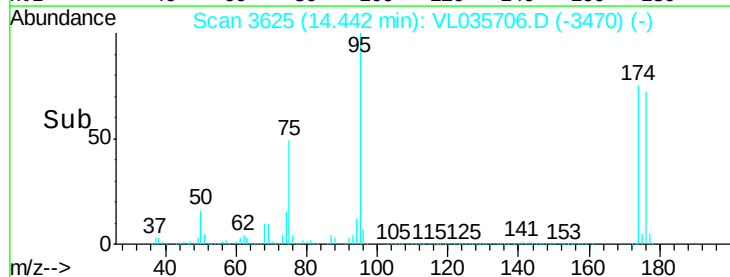
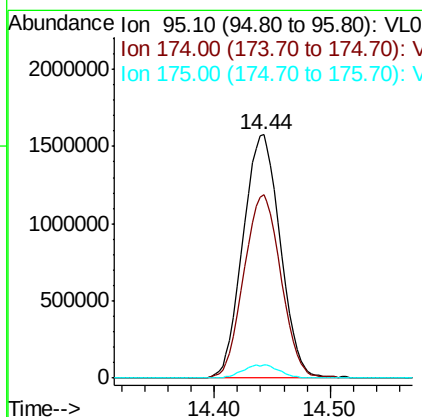
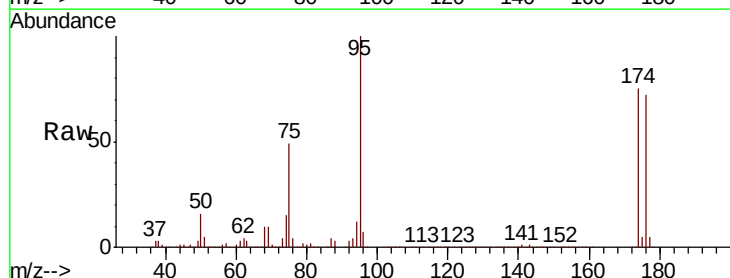
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

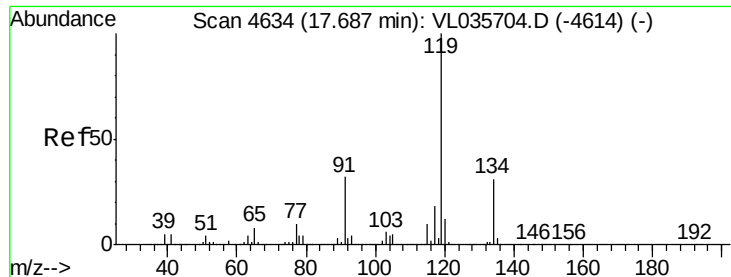
Tot Ion:105 Resp: 907902
 Ion Ratio Lower Upper
 105 100
 134 18.8 17.6 26.4



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.541 ppbv
 RT: 14.44 min Scan# 3625
 Delta R.T. -0.00 min
 Lab File: VL035706.D
 Acq: 23 Sep 2020 4:40

Tgt Ion: 95 Resp: 3531392
 Ion Ratio Lower Upper
 95 100
 174 75.6 59.6 89.4
 175 5.4 4.2 6.4





#69

p-Isopropyltoluene

Concen: 1.010 ppbv

RT: 17.68 min Scan# 4633

Delta R.T. -0.00 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

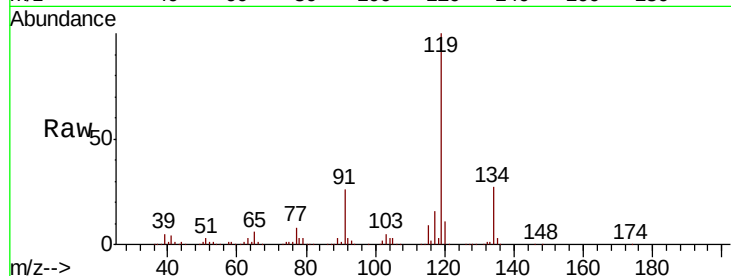
Tot Ion: 119 Resp: 718084

Ion Ratio Lower Upper

119 100

134 26.5 23.9 35.9

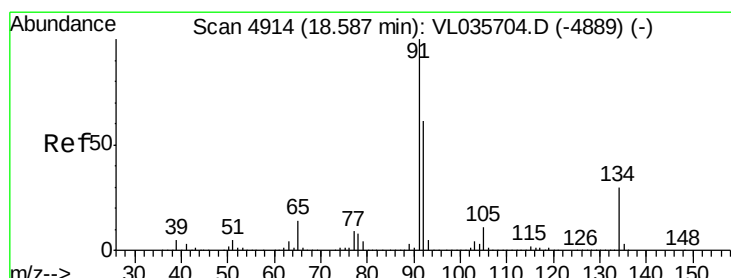
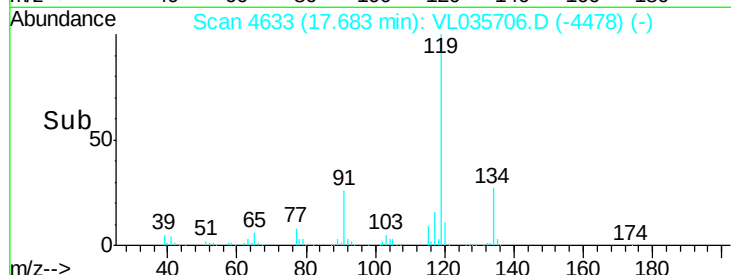
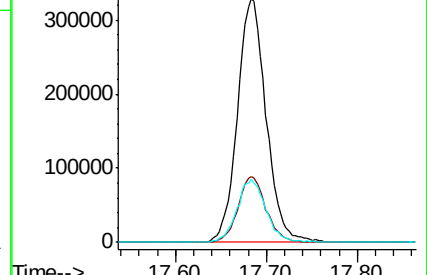
91 26.4 23.8 35.6



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: 1.072 ppbv

RT: 18.58 min Scan# 4913

Delta R.T. -0.00 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

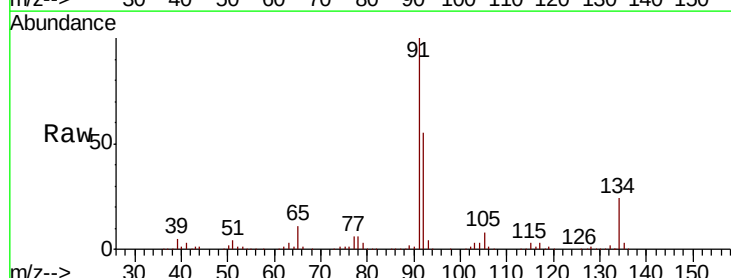
Tgt Ion: 91 Resp: 741240

Ion Ratio Lower Upper

91 100

92 53.2 47.0 70.4

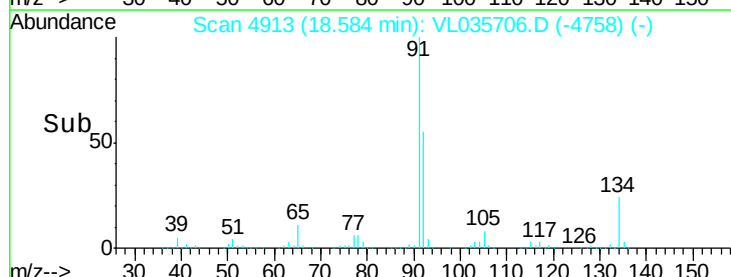
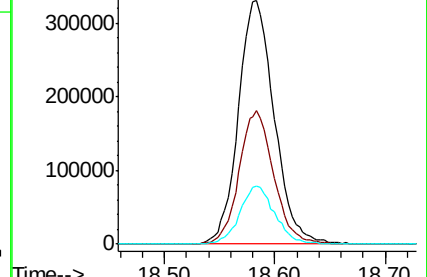
134 23.4 21.9 32.9

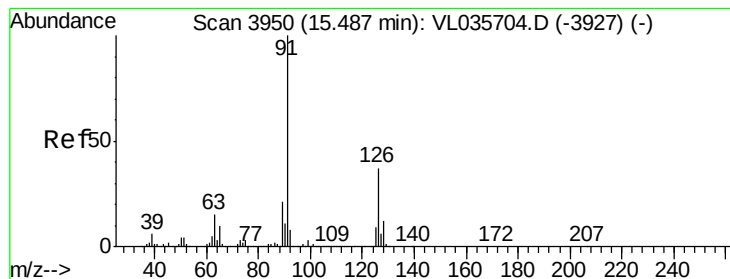


Abundance Ion 91.10 (90.80 to 91.80): V

Ion 92.10 (91.80 to 92.80): V

Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 1.019 ppbv

RT: 15.48 min Scan# 3948

Delta R.T. -0.01 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

Instrument :

MSVOA_L

ClientSampleId :

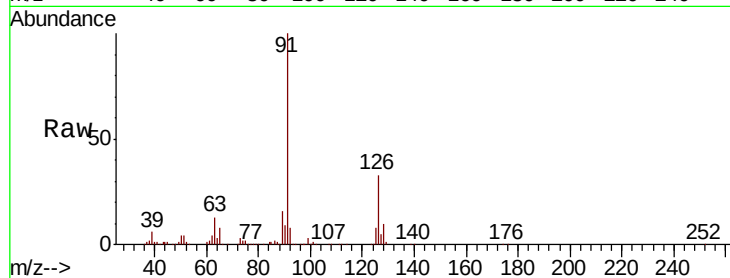
VSTDIC001

Tot Ion: 91 Resp: 491381

Ion Ratio Lower Upper

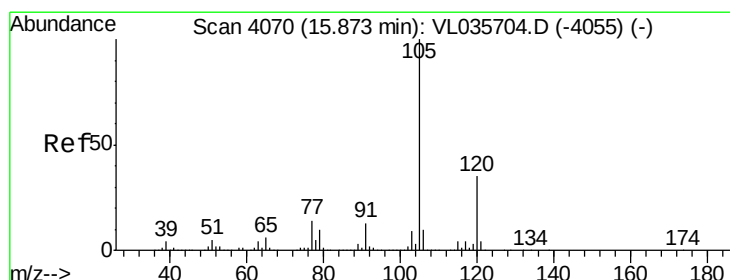
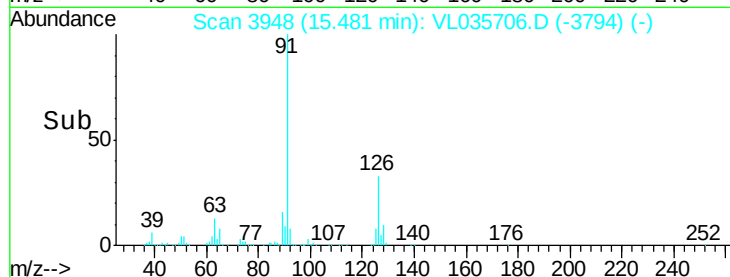
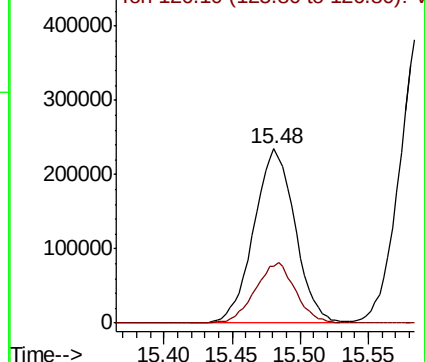
91 100

126 34.3 14.4 57.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 0.993 ppbv

RT: 15.87 min Scan# 4068

Delta R.T. -0.01 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

Tgt Ion: 105 Resp: 517334

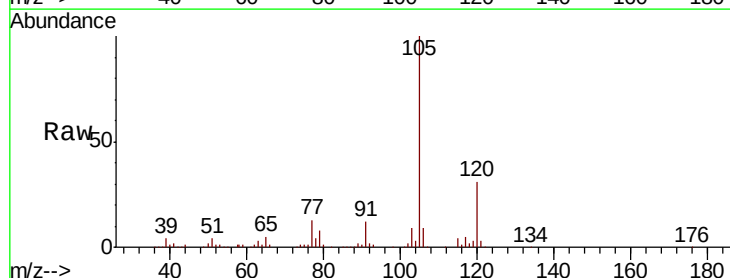
Ion Ratio Lower Upper

105 100

120 30.4 26.5 39.7

91 12.3 10.2 15.2

77 12.1 10.3 15.5

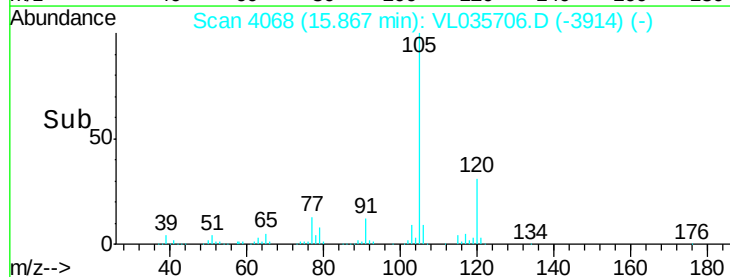
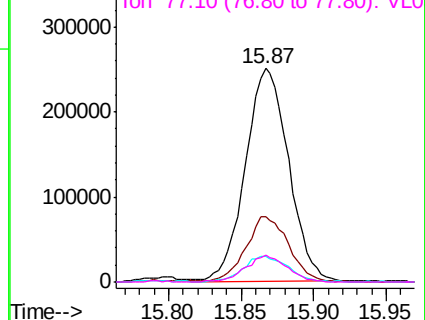


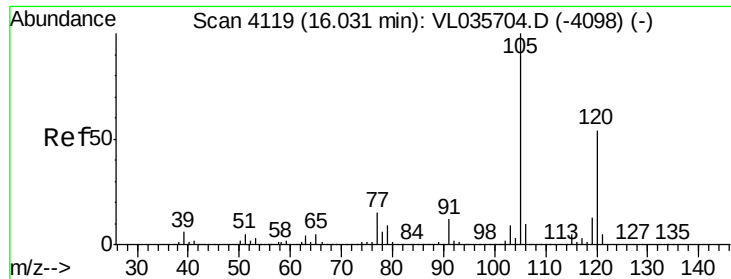
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 1.018 ppbv

RT: 16.03 min Scan# 4118

Delta R.T. -0.00 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

Instrument :

MSVOA_L

ClientSampleId :

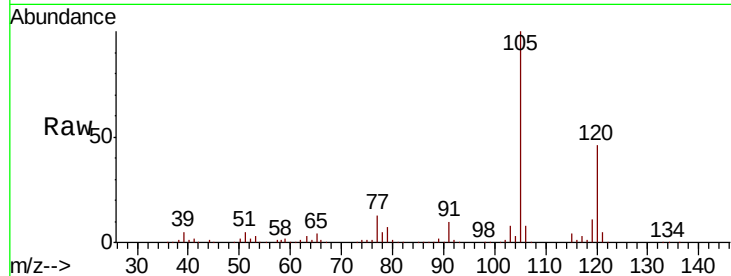
VSTDIC001

Tot Ion:105 Resp: 491025

Ion Ratio Lower Upper

105 100

120 46.0 43.0 64.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

250000

200000

150000

100000

50000

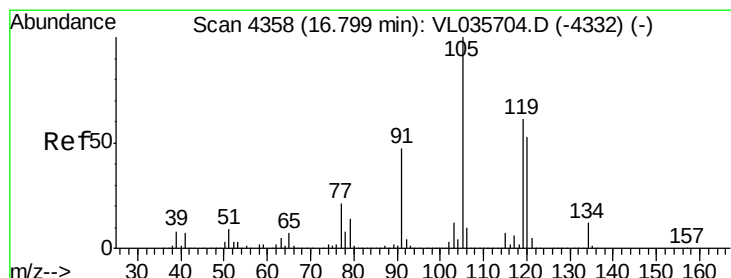
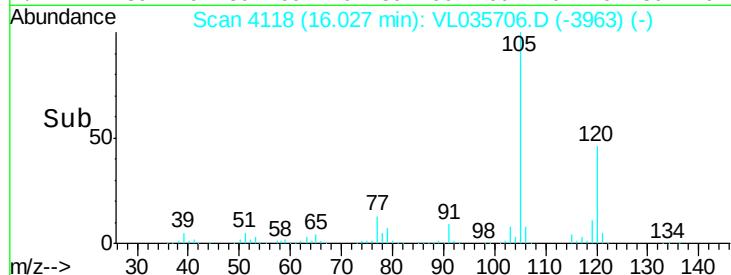
0

16.03

16.00

16.10

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 1.098 ppbv

RT: 16.79 min Scan# 4354

Delta R.T. -0.01 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

Tgt Ion:105 Resp: 582441

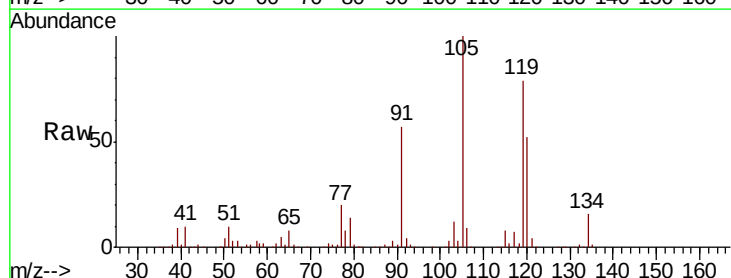
Ion Ratio Lower Upper

105 100

120 51.0 42.5 63.7

91 55.9 37.7 56.5

77 20.2 16.7 25.1



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): V

Ion 77.10 (76.80 to 77.80): V

400000

300000

200000

100000

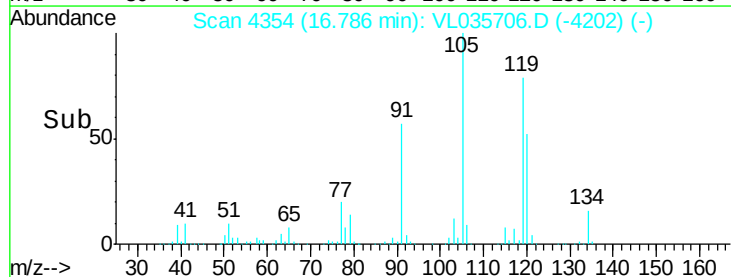
0

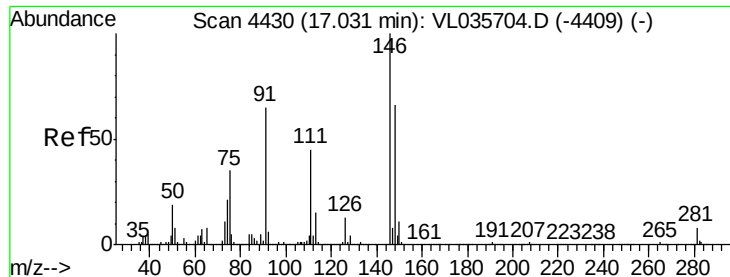
16.79

16.70

16.85

Time-->

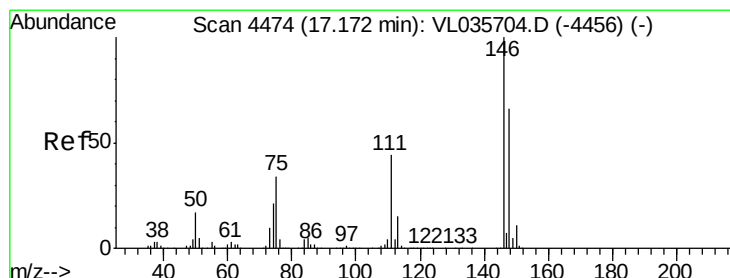
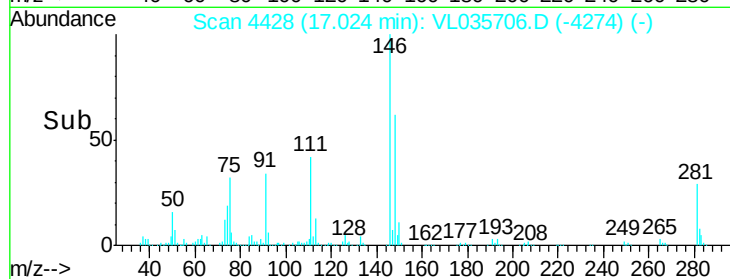
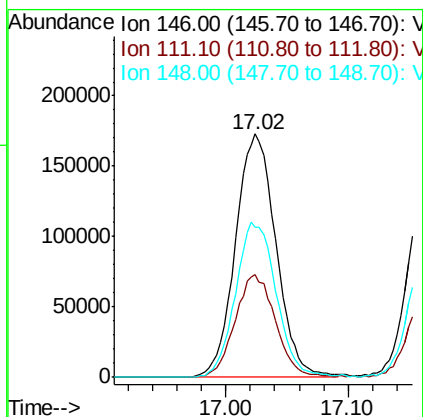
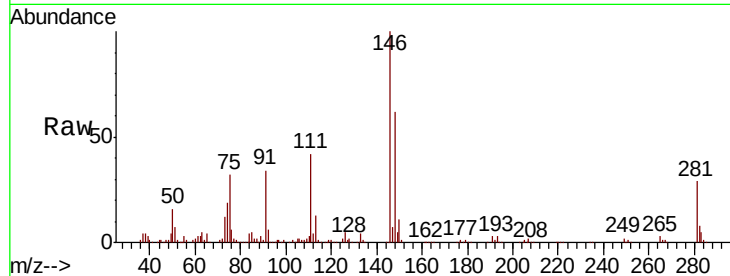




#75
 1,3-Dichlorobenzene
 Concen: 1.030 ppbv
 RT: 17.02 min Scan# 4428
 Delta R.T. -0.01 min
 Lab File: VL035706.D
 Acq: 23 Sep 2020 4:40

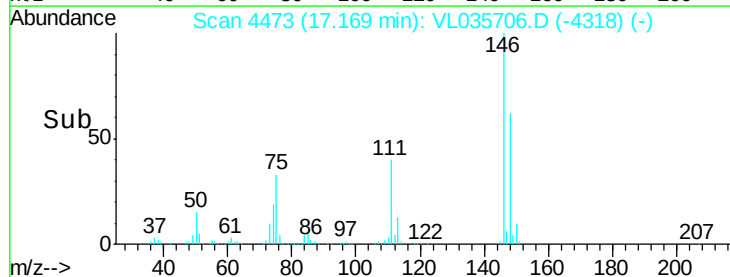
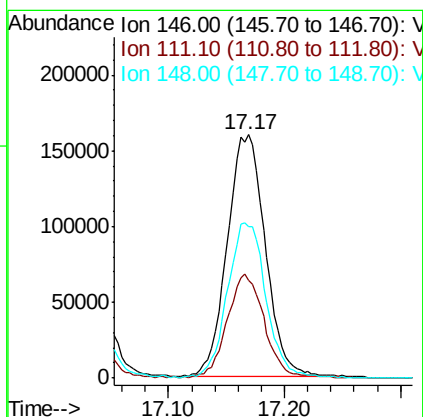
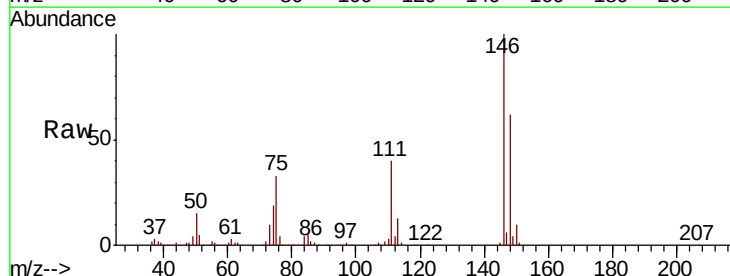
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

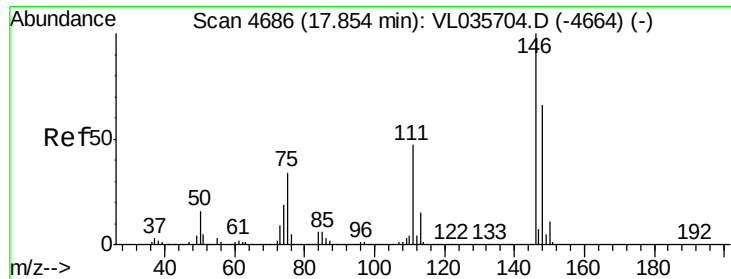
Tot Ion:146 Resp: 396734
 Ion Ratio Lower Upper
 146 100
 111 42.3 22.4 67.0
 148 64.2 33.0 99.0



#76
 1,4-Dichlorobenzene
 Concen: 0.951 ppbv
 RT: 17.17 min Scan# 4473
 Delta R.T. -0.00 min
 Lab File: VL035706.D
 Acq: 23 Sep 2020 4:40

Tgt Ion:146 Resp: 361182
 Ion Ratio Lower Upper
 146 100
 111 42.7 21.4 64.3
 148 65.9 32.6 98.0





#77

1,2-Dichlorobenzene

Concen: 0.971 ppbv

RT: 17.85 min Scan# 4684

Delta R.T. -0.01 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

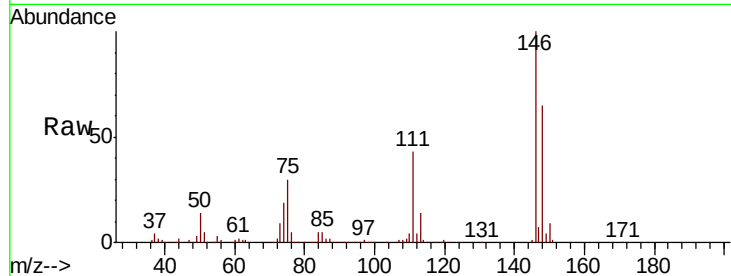
Tot Ion:146 Resp: 361937

Ion Ratio Lower Upper

146 100

111 45.0 22.9 68.5

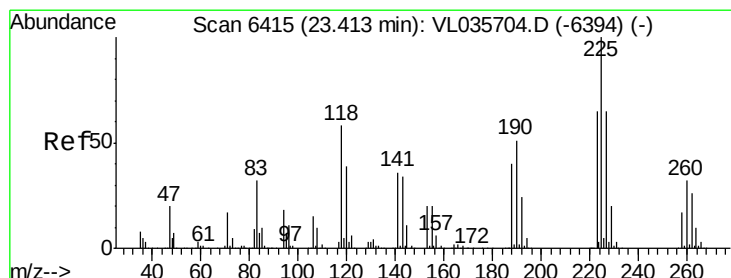
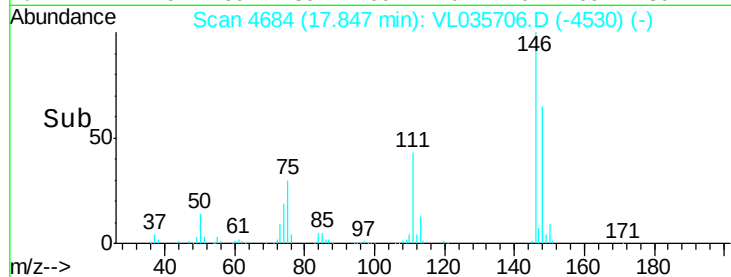
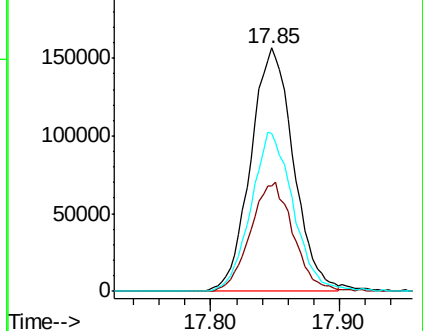
148 65.2 32.6 98.0



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 0.833 ppbv

RT: 23.41 min Scan# 6415

Delta R.T. 0.00 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

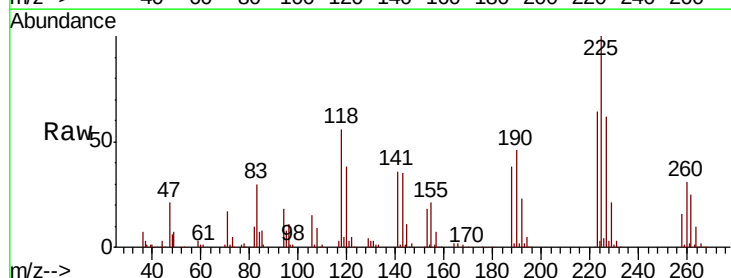
Tgt Ion:225 Resp: 194246

Ion Ratio Lower Upper

225 100

223 63.8 51.3 76.9

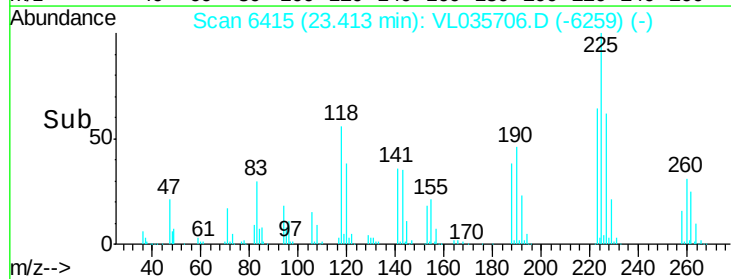
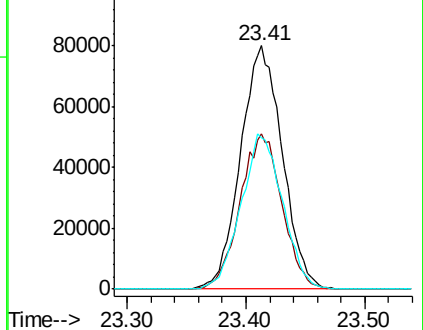
227 63.6 51.6 77.4

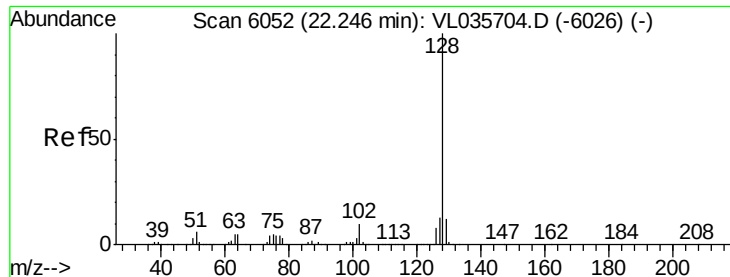


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 0.881 ppbv

RT: 22.25 min Scan# 6052

Delta R.T. 0.00 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

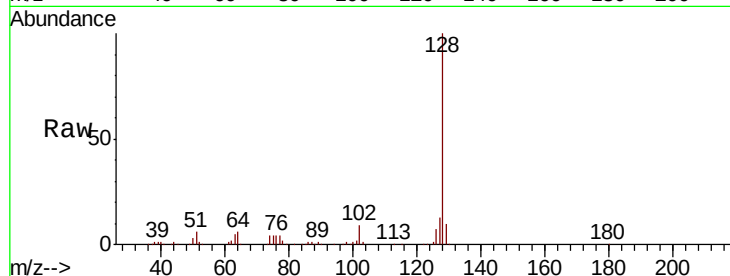
Tot Ion:128 Resp: 501848

Ion Ratio Lower Upper

128 100

127 13.1 10.6 15.8

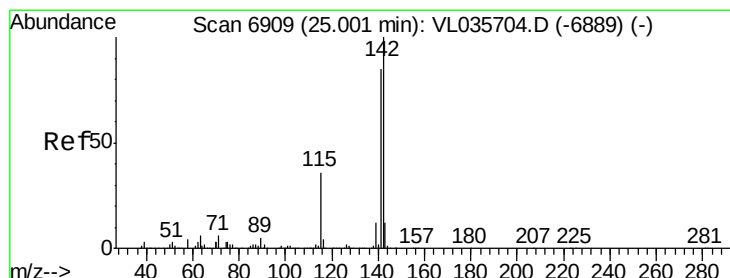
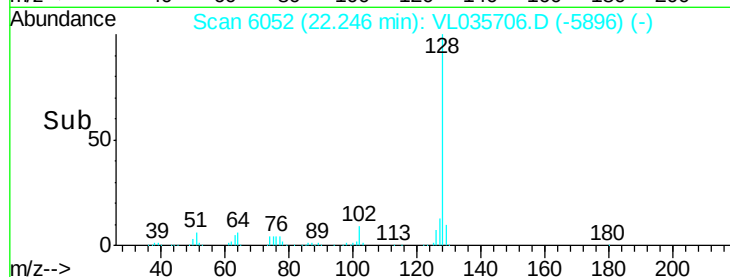
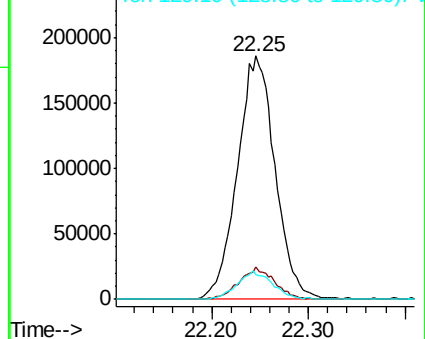
129 10.4 9.4 14.0



Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 0.357 ppbv

RT: 25.00 min Scan# 6910

Delta R.T. 0.00 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

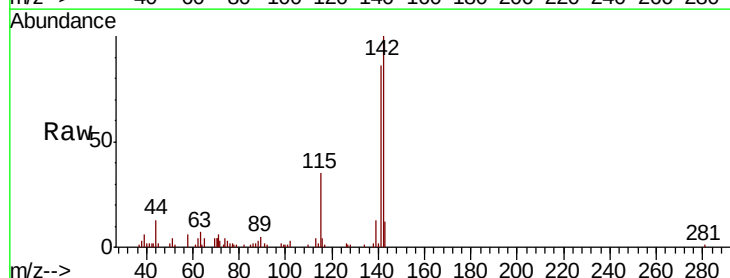
Tgt Ion:142 Resp: 66140

Ion Ratio Lower Upper

142 100

141 89.2 68.2 102.4

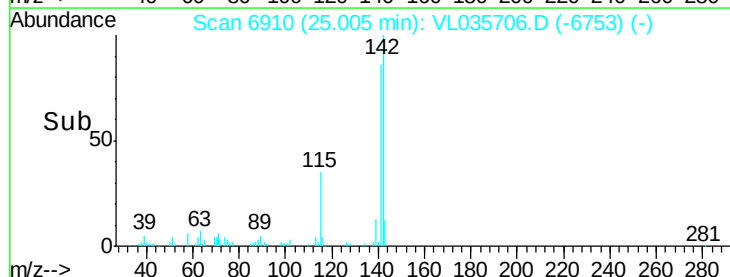
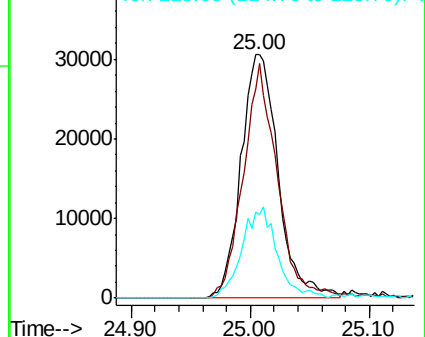
115 35.2 27.8 41.6

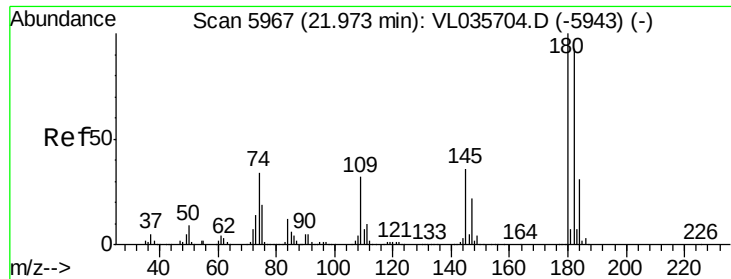


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81

1,2,4-Trichlorobenzene

Concen: 0.784 ppbv

RT: 21.97 min Scan# 5967

Delta R.T. 0.00 min

Lab File: VL035706.D

Acq: 23 Sep 2020 4:40

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

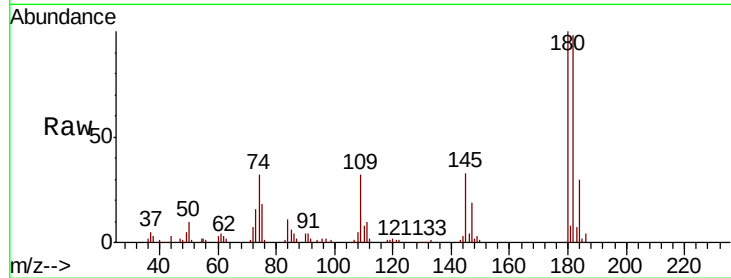
Tot Ion:180 Resp: 261769

Ion Ratio Lower Upper

180 100

182 96.7 76.2 114.2

184 29.8 24.6 37.0



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

