

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL100820\
 Data File : VL035746.D
 Acq On : 8 Oct 2020 15:36
 Operator : SY/AP
 Sample : L4275-01DUP
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Oct 09 01:17:34 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 07:38:05 2020
 QLast Update : Wed Sep 23 07:38:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1074003	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	4134860	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	4006439	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	3076202	10.25	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.50%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.04	85	61573	0.349 ppbv	98
3) Chlorodifluoromethane	2.98	51	1519953	13.155 ppbv	96
4) Chloromethane	3.14	50	33614	0.542 ppbv	91
5) Vinyl Chloride	3.25	62	459304	6.256 ppbv	97
7) Chloroethane	3.55	64	1543636	57.329 ppbv	98
9) Propene	3.00	41	39587	0.944 ppbv	93
11) Trichlorofluoromethane	3.95	101	64517	0.257 ppbv	85
12) 1,1,2-Trichlorotrifluoroet	4.48	101	14222	0.076 ppbv	97
13) Ethanol	3.61	45	30911	2.988 ppbv	99
15) Acetone	3.85	43	530746	4.593 ppbv	93
16) 1,3-Butadiene	3.30	39	5104	0.121 ppbv #	16
17) tert-Butyl alcohol	4.31	59	41643	0.331 ppbv	99
18) 1,1-Dichloroethene	4.29	96	34100	0.416 ppbv	94
19) Isopropyl Alcohol	3.98	45	21605	0.344 ppbv #	89
20) Methylene Chloride	4.34	84	411925	4.853 ppbv	97
22) trans-1,2-Dichloroethene	4.89	96	7126	0.082 ppbv	89
23) Vinyl Acetate	5.07	43	76767	0.542 ppbv #	91
24) 1,1-Dichloroethane	5.01	63	3511034	22.773 ppbv	99
25) Ethyl Acetate	5.69	43	39353	0.189 ppbv #	69
26) Hexane	5.69	57	54716	0.480 ppbv #	53
29) Chloroform	5.75	83	31641	0.137 ppbv	95
30) Cyclohexane	7.14	84	95428	0.849 ppbv #	86
31) cis-1,2-Dichloroethene	5.55	61	1466331	13.330 ppbv	100
32) 1,1,1-Trichloroethane	6.52	97	144104	0.706 ppbv	99
34) 2-Butanone	5.26	43	57913	0.423 ppbv	100
35) Carbon Tetrachloride	7.02	117	16531	0.077 ppbv	90
36) Benzene	6.90	78	8129644	30.174 ppbv #	86
37) 1,2-Dichloroethane	6.31	62	289392	2.061 ppbv	99
38) Trichloroethene	7.84	130	20957	0.156 ppbv	90
39) 1,2-Dichloropropane	7.18	63	806360	8.257 ppbv #	31
44) 2,2,4-Trimethylpentane	7.88	57	16947	0.044 ppbv #	31
51) 2-Hexanone	9.83	43	123412	0.767 ppbv #	21
52) Tetrachloroethene	11.24	164	4487	0.035 ppbv #	82
53) Toluene	9.83	91	16397306	51.612 ppbv #	76
57) Chlorobenzene	12.17	112	1111843	3.674 ppbv	97
58) Ethyl Benzene	12.73	91	2590491	6.442 ppbv	95
59) m/p-Xylene	12.99	91	13530855	38.531 ppbv	91
60) o-Xylene	13.72	91	10622845	29.904 ppbv	88
61) Styrene	13.55	104	15706	0.064 ppbv #	30
62) Isopropylbenzene	14.69	105	2675633	4.856 ppbv	96
64) n-propylbenzene	15.59	120	1132988	7.026 ppbv	87

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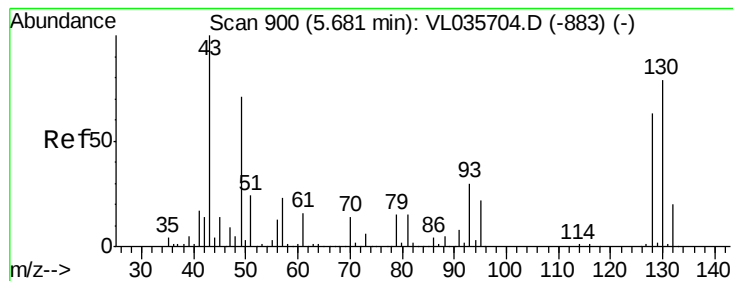
Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Oct 09 01:17:34 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092320AIR.M
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

65) tert-Butylbenzene	16.80	119	3625025	7.236	ppbv #	69
66) Benzyl Chloride	16.80	91	3647351	24.031	ppbv #	64
67) sec-Butylbenzene	17.33	105	327850	0.474	ppbv	94
69) p-Isopropyltoluene	17.57	119	1029269	1.829	ppbv	93
70) n-Butylbenzene	18.59	91	679118	1.172	ppbv #	1
71) 2-Chlorotoluene	15.59	91	4584798	11.408	ppbv #	39
72) 4-Ethyltoluene	15.87	105	10473883	24.889	ppbv #	90
73) 1,3,5-Trimethylbenzene	16.03	105	11578417	29.116	ppbv #	83
74) 1,2,4-Trimethylbenzene	16.80	105	17544046	39.136	ppbv #	70
75) 1,3-Dichlorobenzene	17.02	146	14636	0.048	ppbv #	26
76) 1,4-Dichlorobenzene	17.17	146	197832	0.676	ppbv	97
77) 1,2-Dichlorobenzene	17.85	146	214466	0.742	ppbv	97
79) Naphthalene	22.23	128	234877	0.549	ppbv	98
80) Naphthalene,2-methyl-	25.00	142	15853	0.157	ppbv #	80
81) 1,2,4-Trichlorobenzene	21.96	180	10162	0.046	ppbv #	45

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 897

Delta R.T. -0.01 min

Lab File: VL035746.D

Acq: 8 Oct 2020 15:36

Instrument :

MSVOA_L

ClientSampleId :

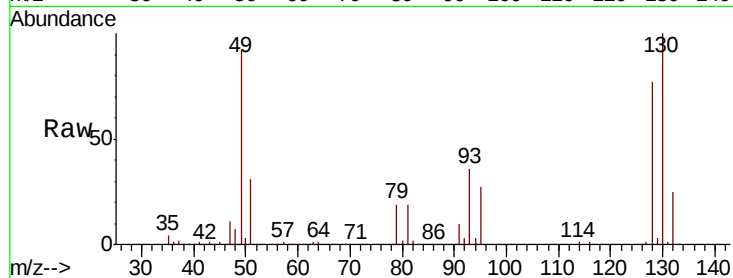
Tot Ion: 49 Resp: 1074003

Ion Ratio Lower Upper

49 100

128 83.4 43.1 129.4

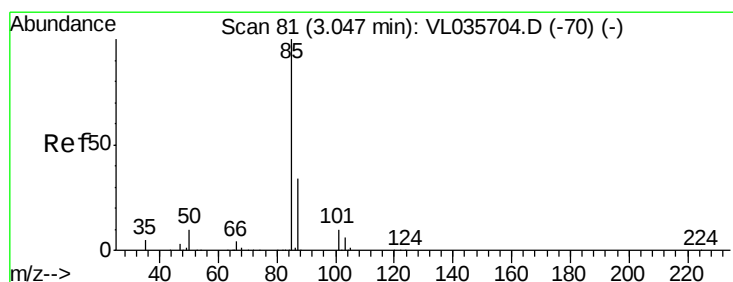
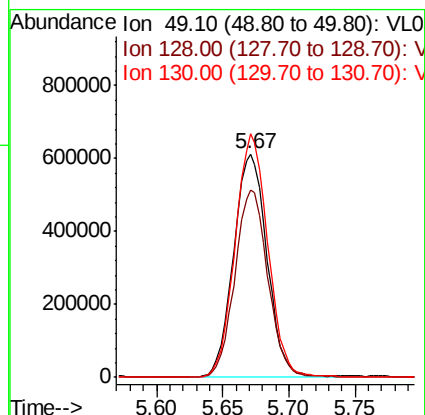
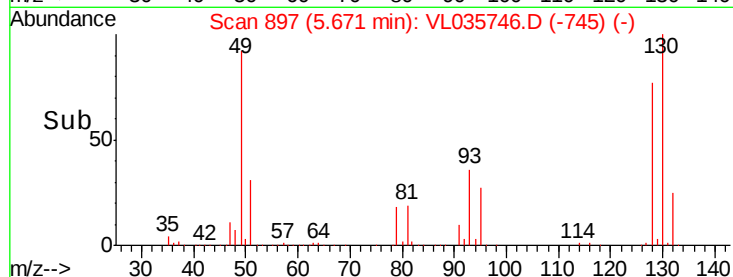
130 107.4 54.9 164.7



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.349 ppbv

RT: 3.04 min Scan# 80

Delta R.T. -0.00 min

Lab File: VL035746.D

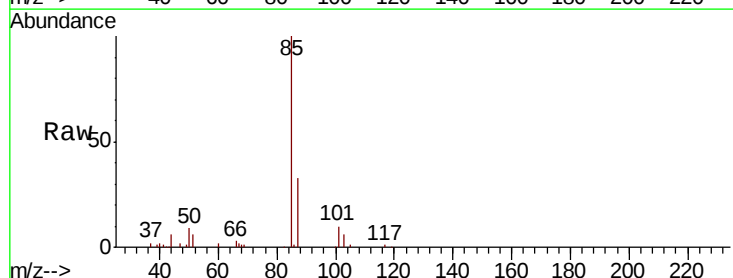
Acq: 8 Oct 2020 15:36

Tgt Ion: 85 Resp: 61573

Ion Ratio Lower Upper

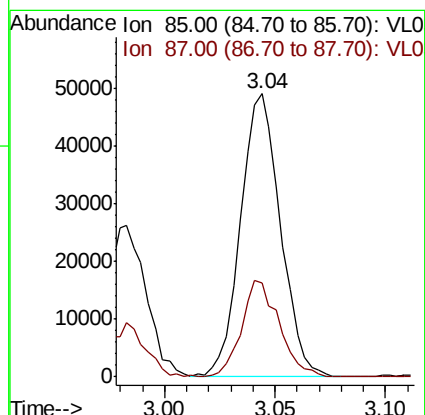
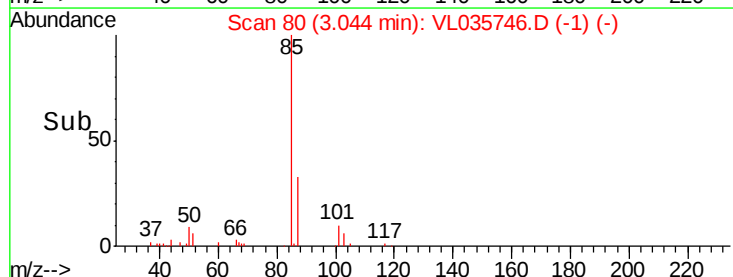
85 100

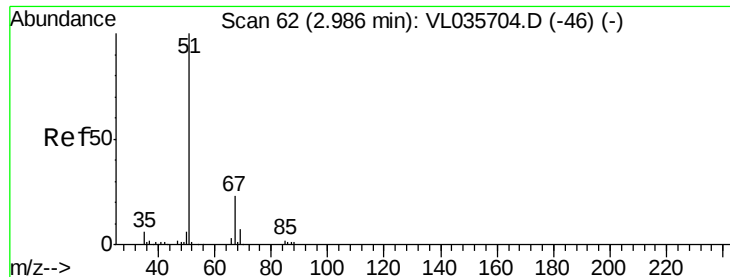
87 33.0 27.3 40.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 13.155 ppbv

RT: 2.98 min Scan# 61

Delta R.T. -0.00 min

Lab File: VL035746.D

Acq: 8 Oct 2020 15:36

Instrument :

MSVOA_L

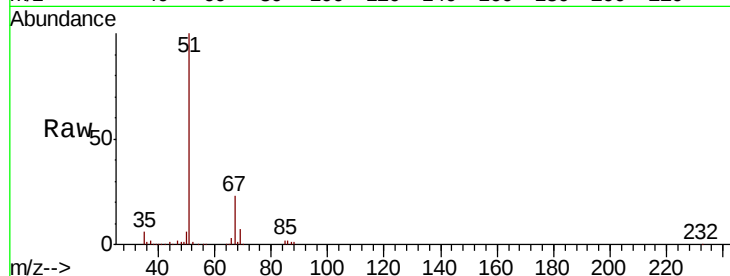
ClientSampled :

Tot Ion: 51 Resp: 1519953

Ion Ratio Lower Upper

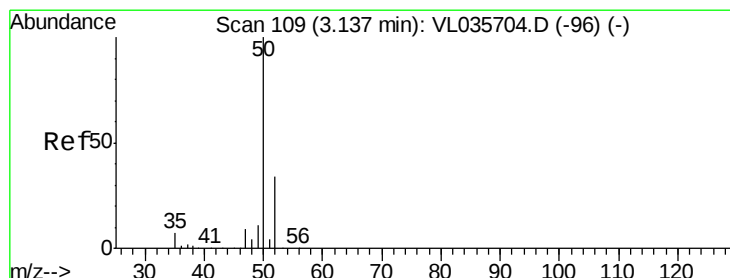
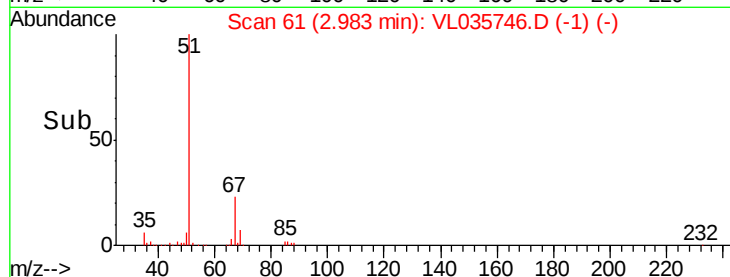
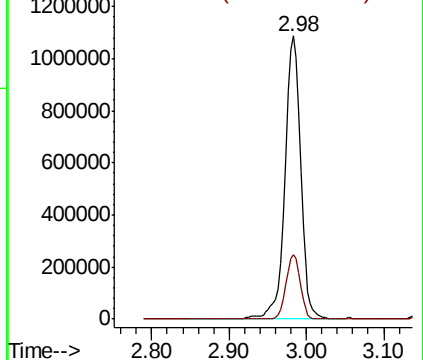
51 100

67 20.5 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: 0.542 ppbv

RT: 3.14 min Scan# 109

Delta R.T. -0.00 min

Lab File: VL035746.D

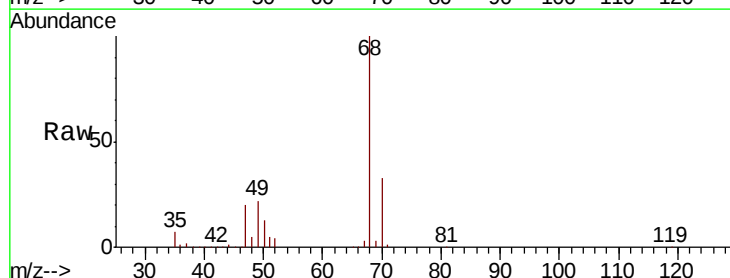
Acq: 8 Oct 2020 15:36

Tgt Ion: 50 Resp: 33614

Ion Ratio Lower Upper

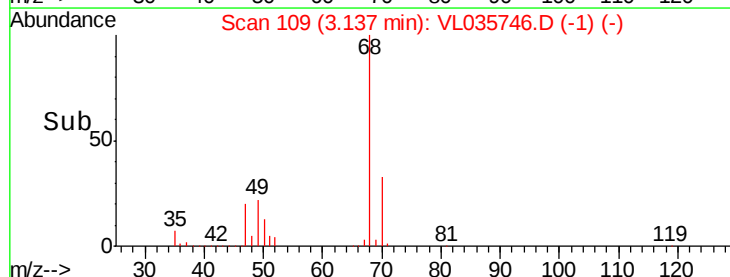
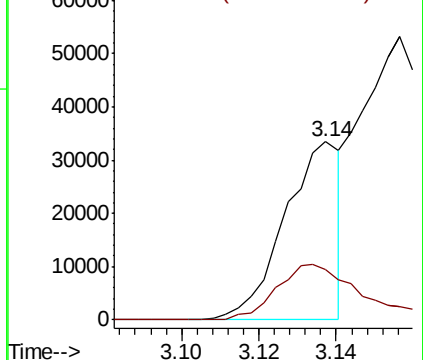
50 100

52 28.5 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: 6.256 ppbv

RT: 3.25 min Scan# 145

Delta R.T. -0.00 min

Lab File: VL035746.D

Acq: 8 Oct 2020 15:36

Instrument :

MSVOA_L

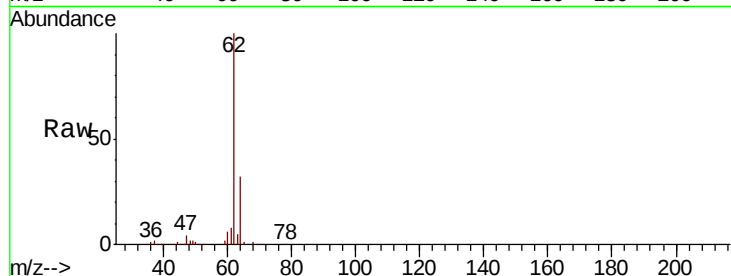
ClientSampled :

Tot Ion: 62 Resp: 459304

Ion Ratio Lower Upper

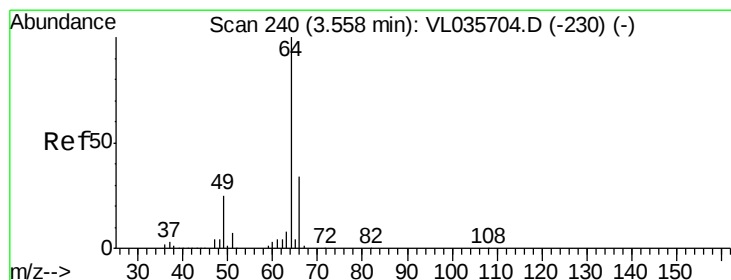
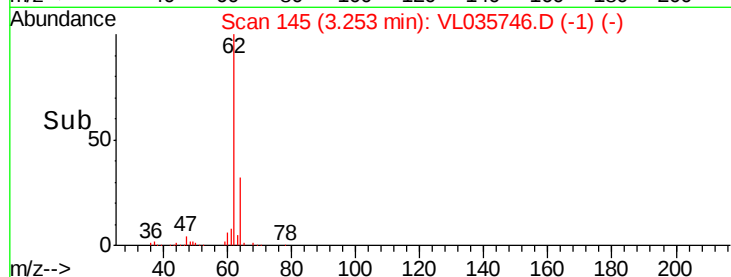
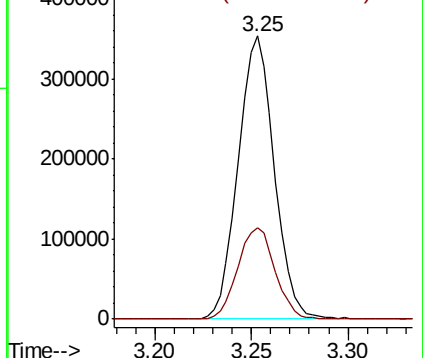
62 100

64 31.9 26.8 40.2



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#7

Chloroethane

Concen: 57.329 ppbv

RT: 3.55 min Scan# 238

Delta R.T. -0.01 min

Lab File: VL035746.D

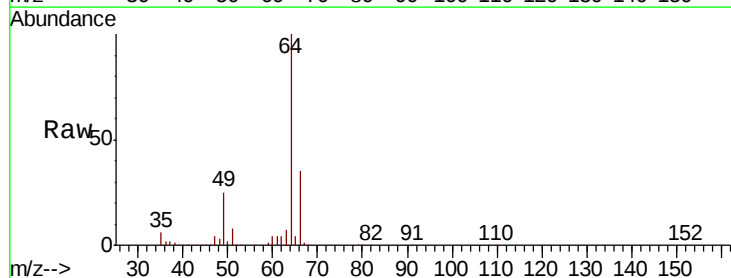
Acq: 8 Oct 2020 15:36

Tgt Ion: 64 Resp: 1543636

Ion Ratio Lower Upper

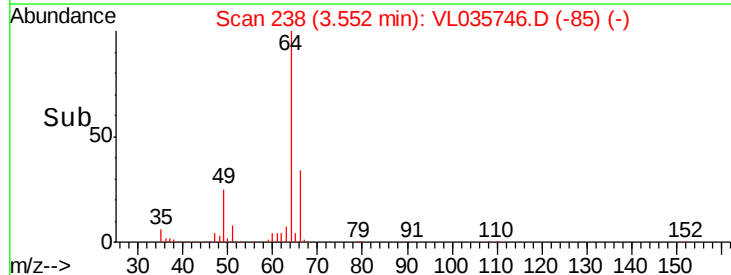
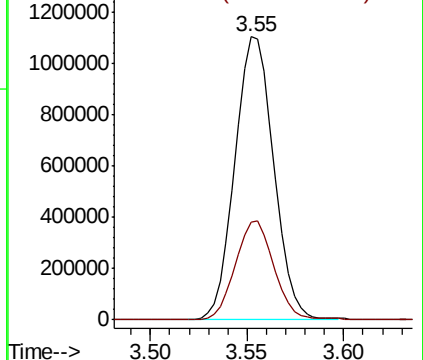
64 100

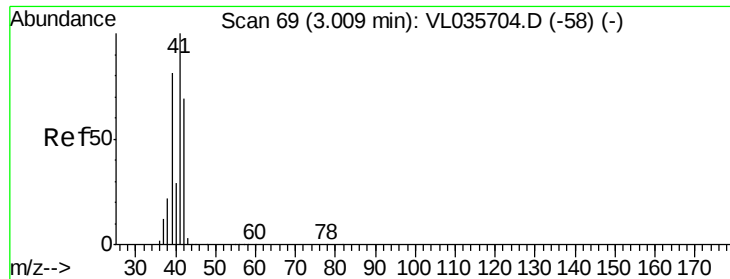
66 34.5 26.9 40.3



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0





#9

Propene

Concen: 0.944 ppbv

RT: 3.00 min Scan# 67

Delta R.T. -0.01 min

Lab File: VL035746.D

Acq: 8 Oct 2020 15:36

Instrument :

MSVOA_L

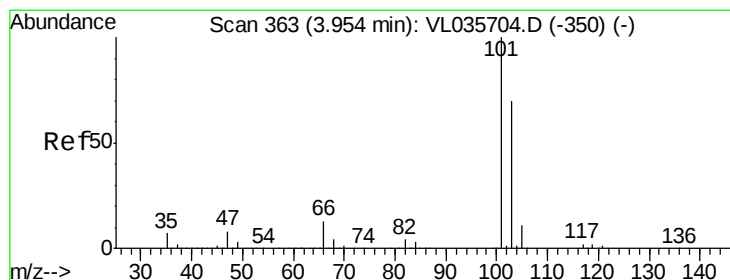
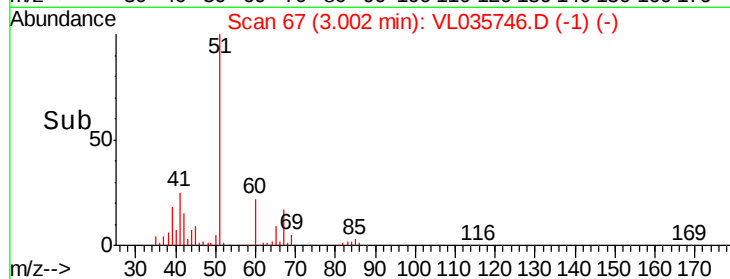
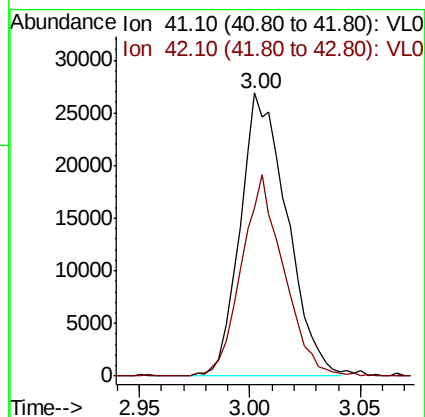
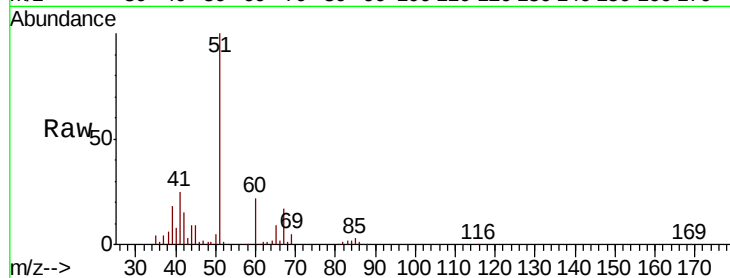
ClientSampleId :

Tot Ion: 41 Resp: 39587

Ion Ratio Lower Upper

41 100

42 64.3 56.2 84.4



#11

Trichlorofluoromethane

Concen: 0.257 ppbv

RT: 3.95 min Scan# 361

Delta R.T. -0.01 min

Lab File: VL035746.D

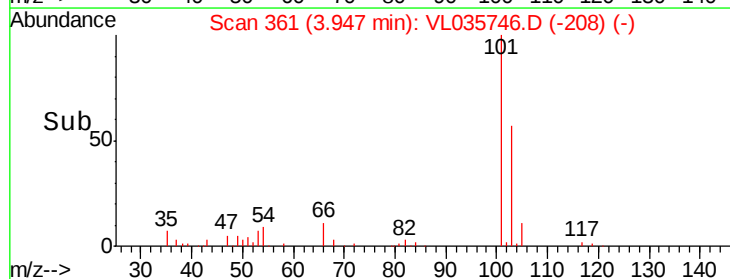
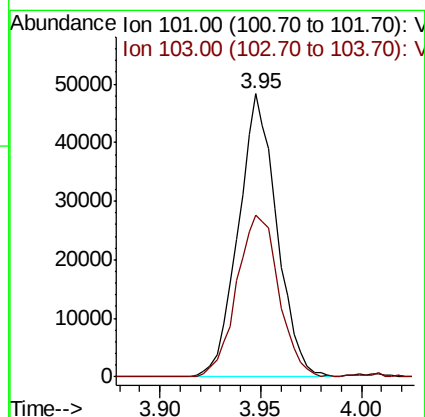
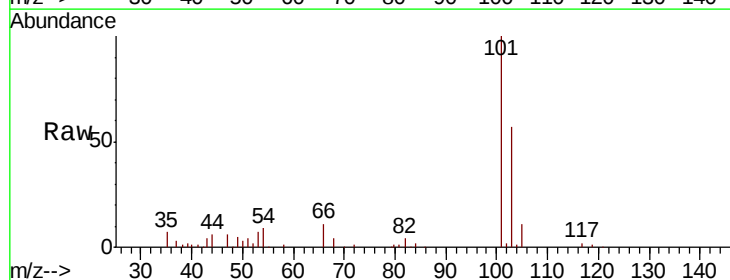
Acq: 8 Oct 2020 15:36

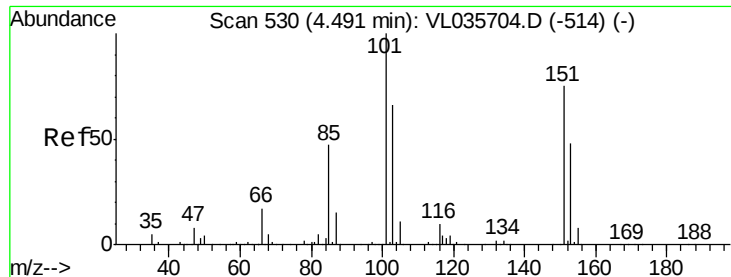
Tgt Ion: 101 Resp: 64517

Ion Ratio Lower Upper

101 100

103 57.1 55.6 83.4





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.076 ppbv

RT: 4.48 min Scan# 528

Delta R.T. -0.01 min

Lab File: VL035746.D

Acq: 8 Oct 2020 15:36

Instrument :

MSVOA_L

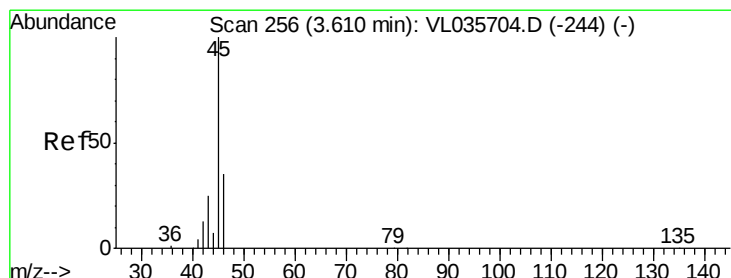
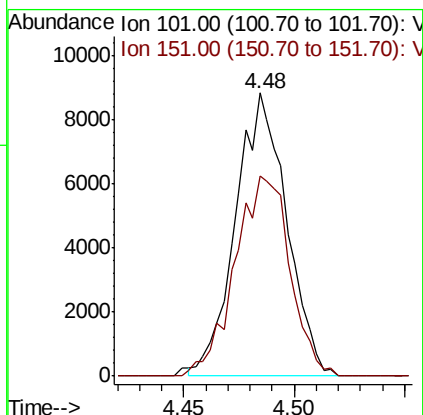
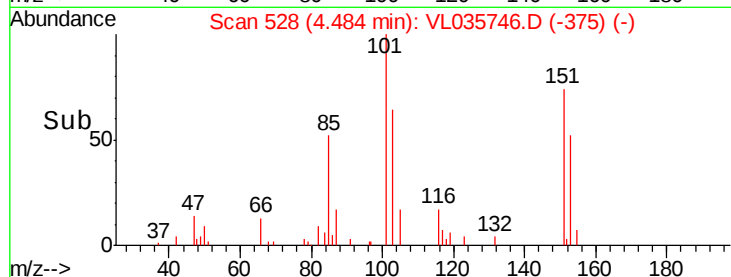
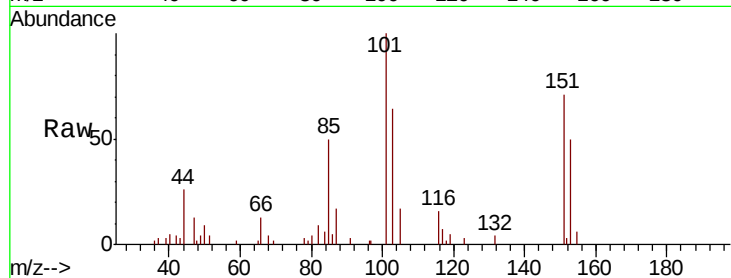
ClientSampleId :

Tot Ion:101 Resp: 14222

Ion Ratio Lower Upper

101 100

151 76.2 59.1 88.7



#13

Ethanol

Concen: 2.988 ppbv

RT: 3.61 min Scan# 255

Delta R.T. -0.00 min

Lab File: VL035746.D

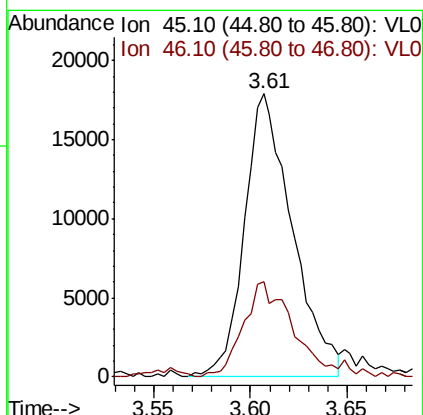
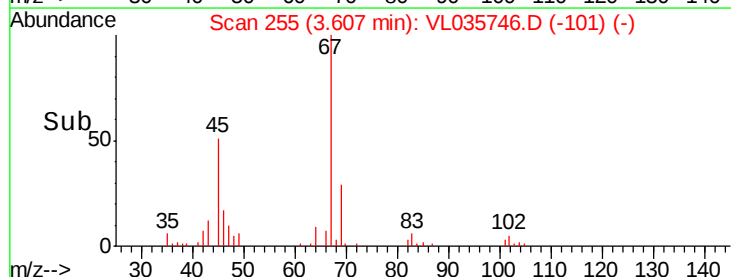
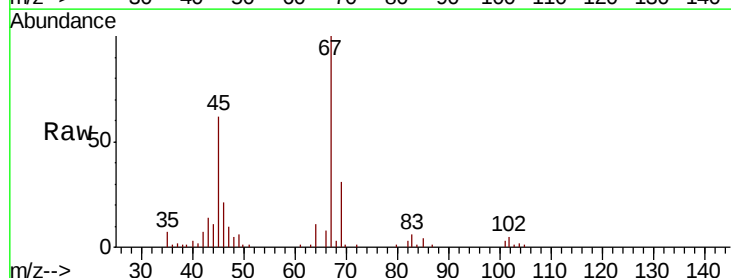
Acq: 8 Oct 2020 15:36

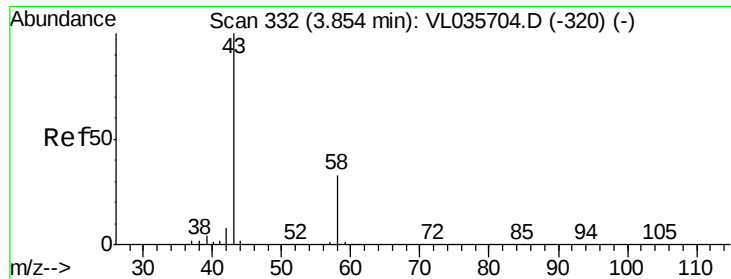
Tgt Ion: 45 Resp: 30911

Ion Ratio Lower Upper

45 100

46 36.1 14.7 58.7





#15

Acetone

Concen: 4.593 ppbv

RT: 3.85 min Scan# 331

Delta R.T. -0.00 min

Lab File: VL035746.D

Acq: 8 Oct 2020 15:36

Instrument :

MSVOA_L

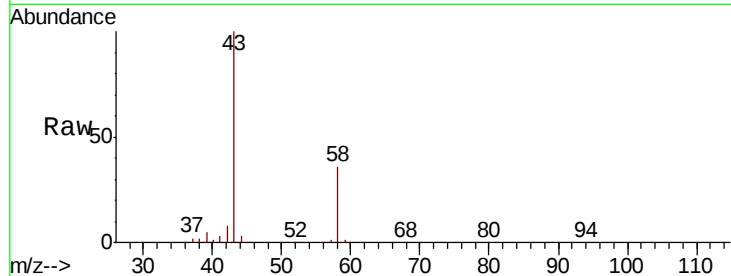
ClientSampleId :

Tot Ion: 43 Resp: 530746

Ion Ratio Lower Upper

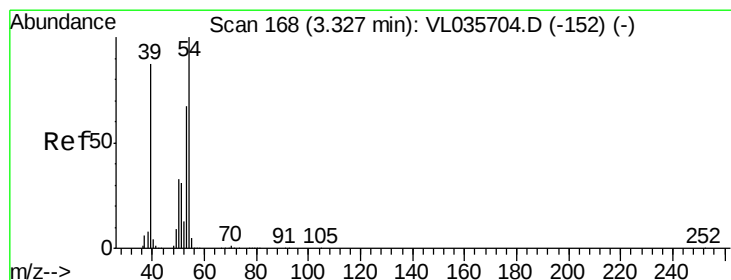
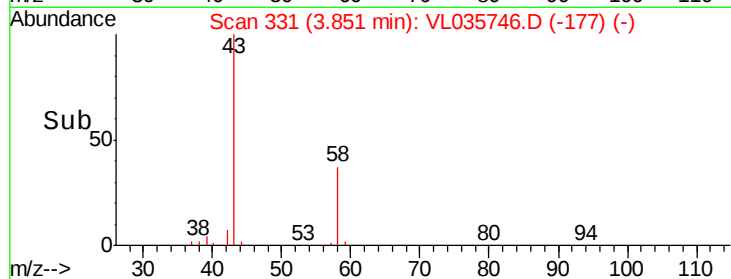
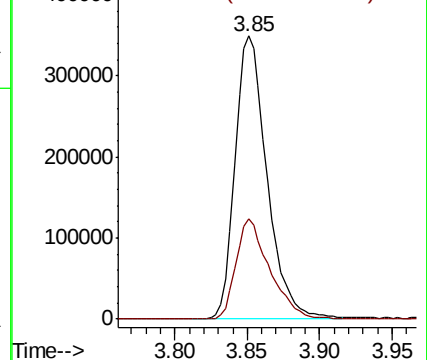
43 100

58 38.1 27.3 40.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.121 ppbv

RT: 3.30 min Scan# 161

Delta R.T. -0.02 min

Lab File: VL035746.D

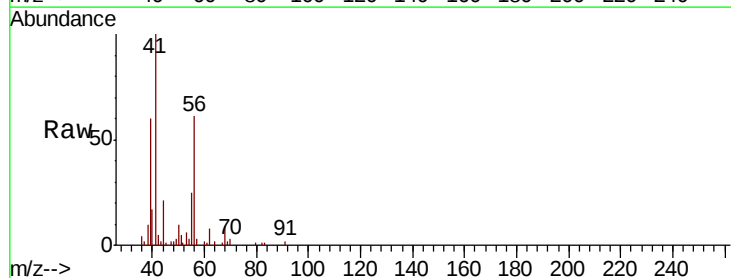
Acq: 8 Oct 2020 15:36

Tgt Ion: 39 Resp: 5104

Ion Ratio Lower Upper

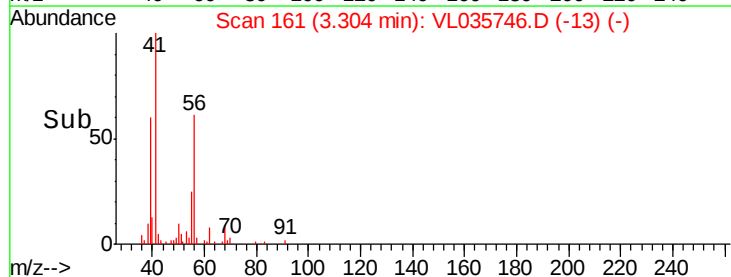
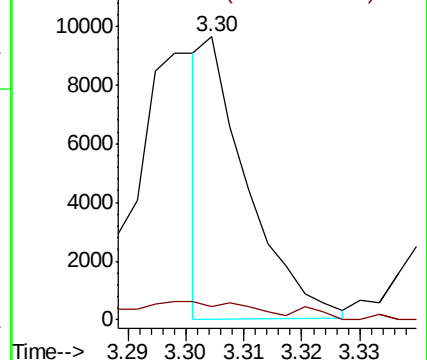
39 100

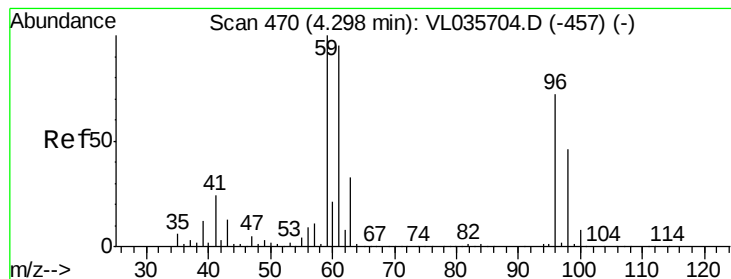
54 20.3 87.4 131.0#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

tert-Butyl alcohol

Concen: 0.331 ppbv

RT: 4.31 min Scan# 473

Delta R.T. 0.01 min

Lab File: VL035746.D

Acq: 8 Oct 2020 15:36

Instrument :

MSVOA_L

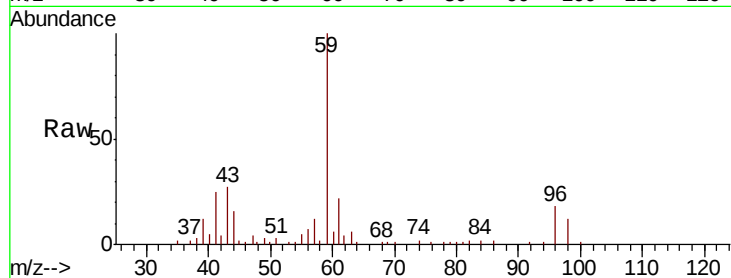
ClientSampled :

Tot Ion: 59 Resp: 41643

Ion Ratio Lower Upper

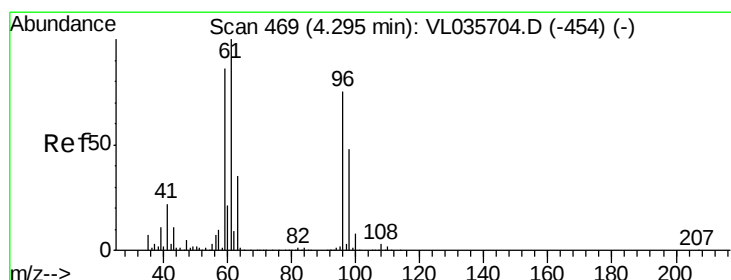
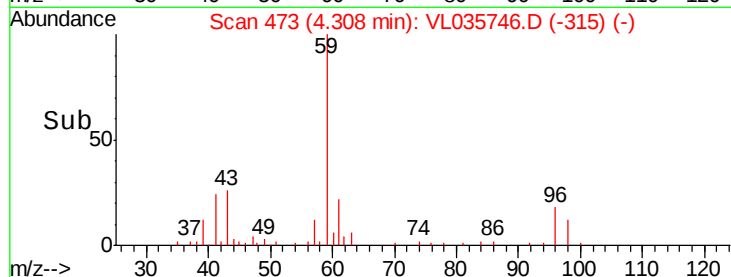
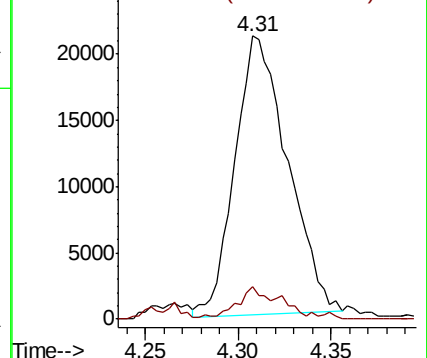
59 100

57 10.0 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: 0.416 ppbv

RT: 4.29 min Scan# 467

Delta R.T. -0.01 min

Lab File: VL035746.D

Acq: 8 Oct 2020 15:36

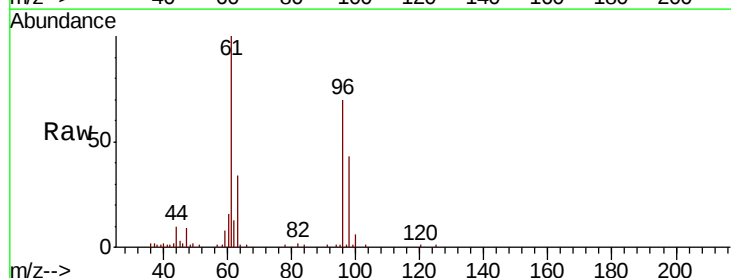
Tgt Ion: 96 Resp: 34100

Ion Ratio Lower Upper

96 100

61 141.1 106.7 160.1

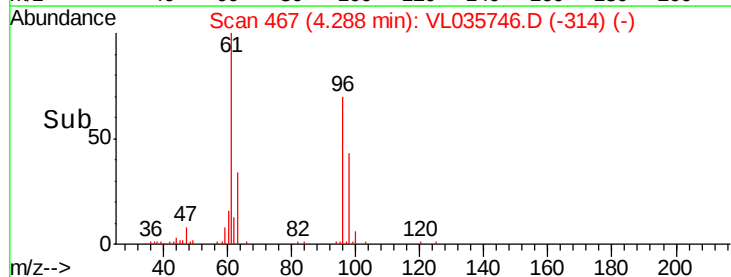
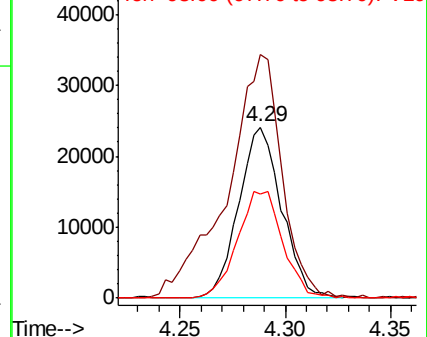
98 60.8 50.8 76.2

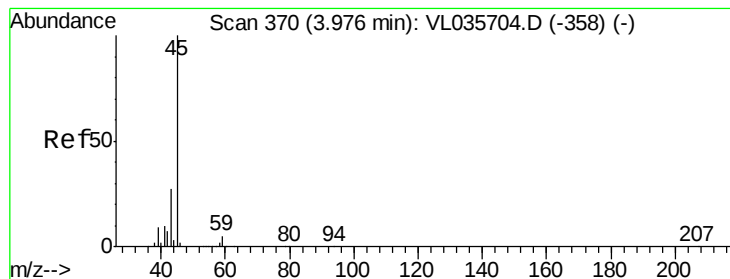


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#19

Isopropyl Alcohol

Concen: 0.344 ppbv

RT: 3.98 min Scan# 372

Delta R.T. 0.01 min

Lab File: VL035746.D

Acq: 8 Oct 2020 15:36

Instrument :

MSVOA_L

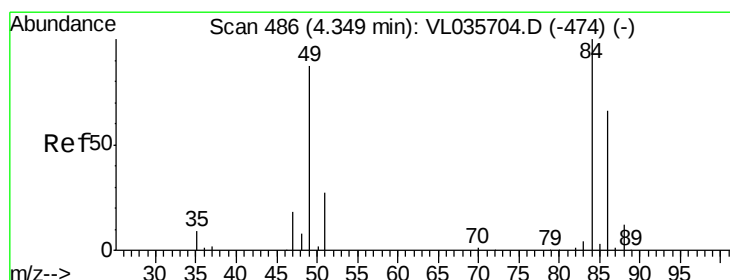
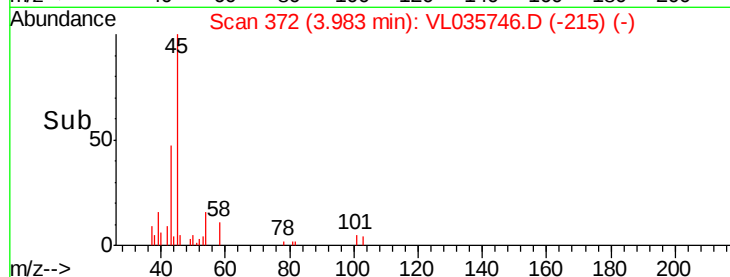
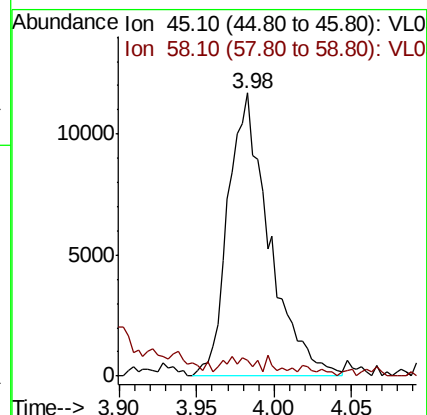
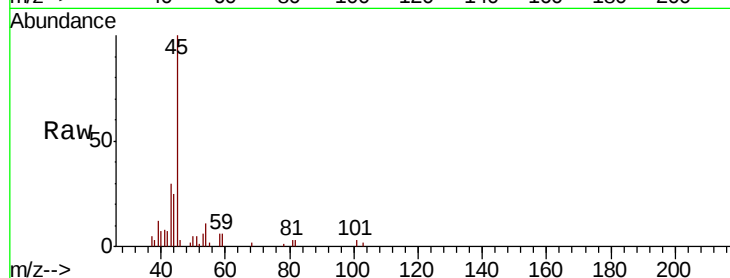
ClientSampled :

Tot Ion: 45 Resp: 21605

Ion Ratio Lower Upper

45 100

58 0.0 2.8 4.2#



#20

Methylene Chloride

Concen: 4.853 ppbv

RT: 4.34 min Scan# 484

Delta R.T. -0.01 min

Lab File: VL035746.D

Acq: 8 Oct 2020 15:36

Tgt Ion: 84 Resp: 411925

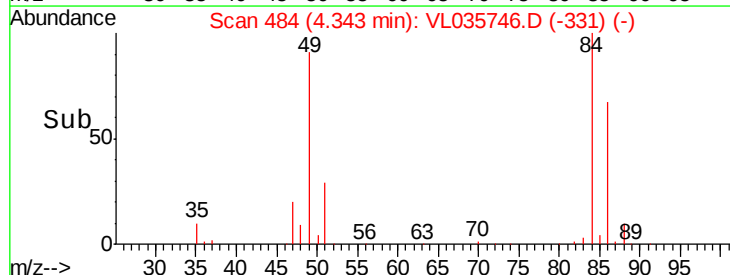
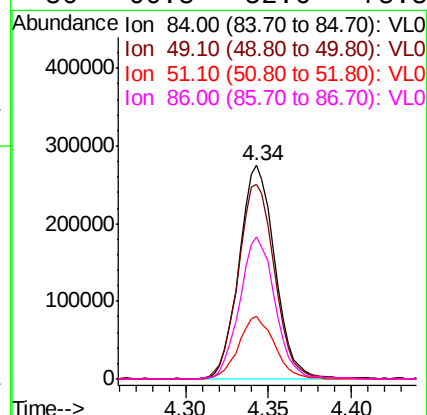
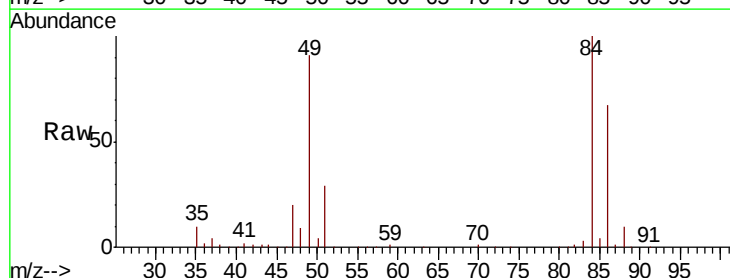
Ion Ratio Lower Upper

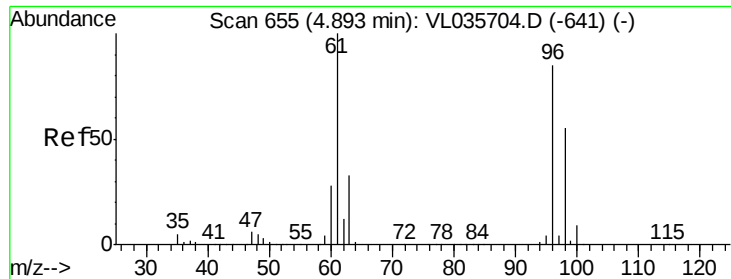
84 100

49 91.3 69.8 104.6

51 29.4 21.8 32.8

86 66.8 52.6 78.8





#22

trans-1,2-Dichloroethene

Concen: 0.082 ppbv

RT: 4.89 min Scan# 653

Delta R.T. -0.01 min

Lab File: VL035746.D

Acq: 8 Oct 2020 15:36

Instrument :

MSVOA_L

ClientSampleId :

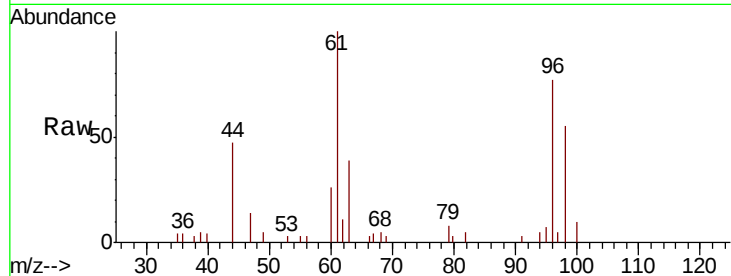
Tot Ion: 96 Resp: 7126

Ion Ratio Lower Upper

96 100

61 130.4 93.7 140.5

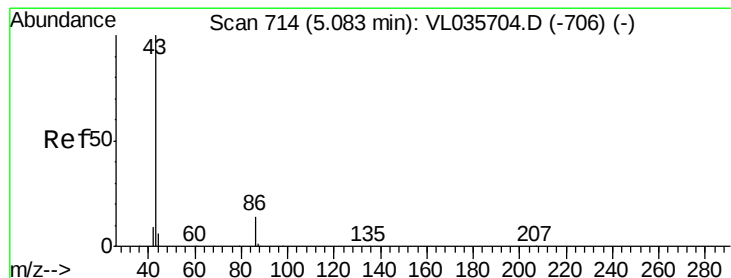
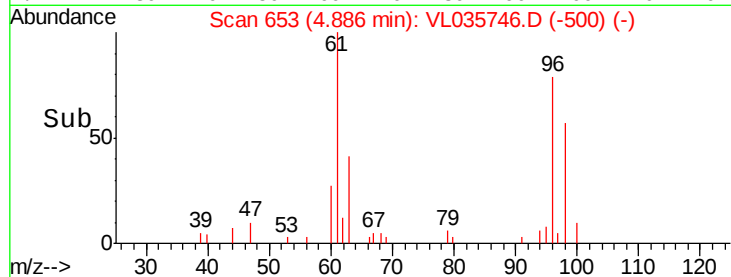
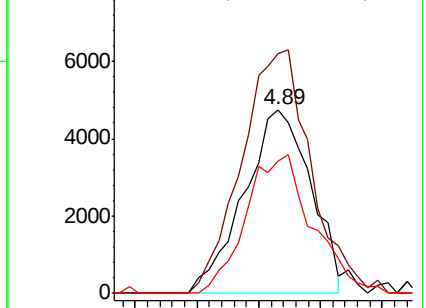
98 71.8 51.2 76.8



Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#23

Vinyl Acetate

Concen: 0.542 ppbv

RT: 5.07 min Scan# 709

Delta R.T. -0.02 min

Lab File: VL035746.D

Acq: 8 Oct 2020 15:36

Tgt Ion: 43 Resp: 76767

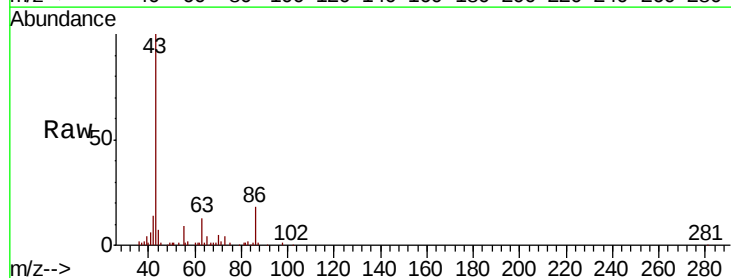
Ion Ratio Lower Upper

43 100

86 17.7 9.7 14.5#

42 11.1 7.9 11.9

44 2.9 4.8 7.2#

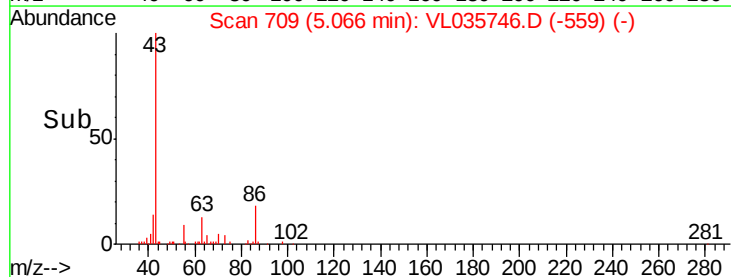
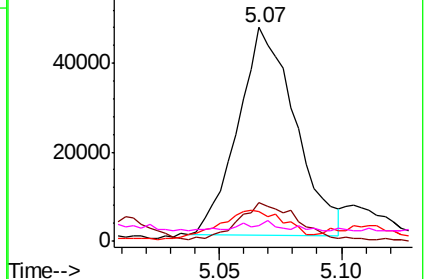


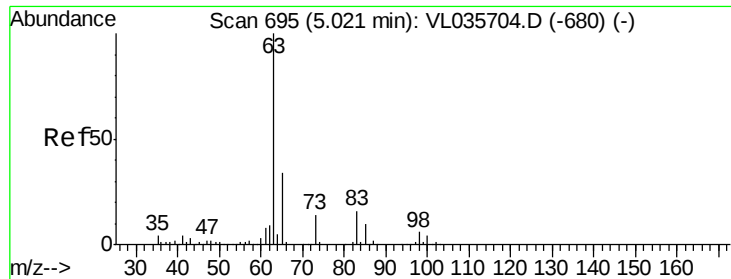
Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 22.773 ppbv

RT: 5.01 min Scan# 692

Delta R.T. -0.01 min

Lab File: VL035746.D

Acq: 8 Oct 2020 15:36

Instrument :
MSVOA_L
ClientSampled :

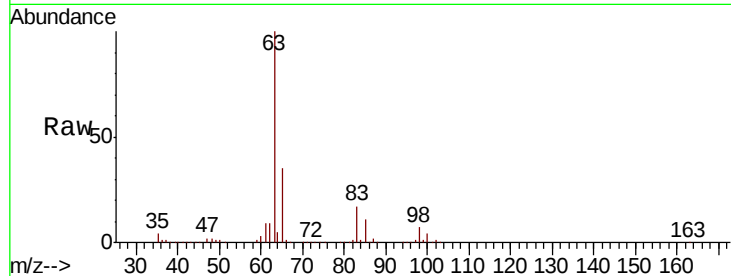
Tot Ion: 63 Resp: 3511034

Ion Ratio Lower Upper

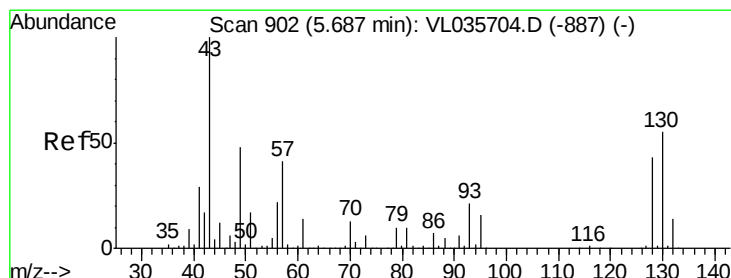
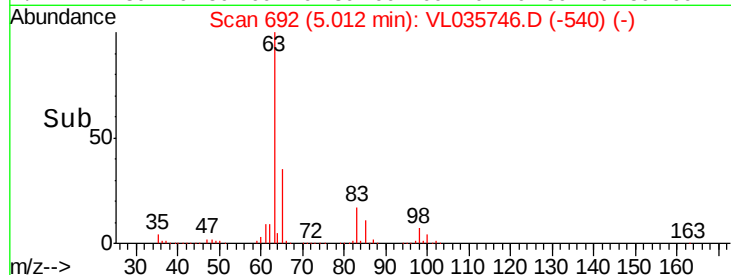
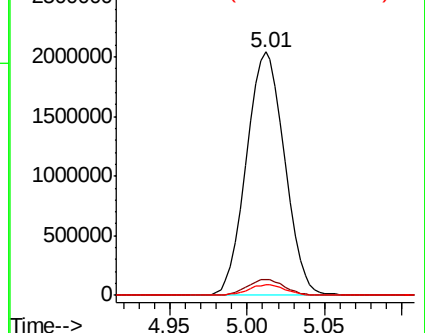
63 100

98 6.7 3.3 9.8

100 4.4 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: 0.189 ppbv

RT: 5.69 min Scan# 902

Delta R.T. -0.00 min

Lab File: VL035746.D

Acq: 8 Oct 2020 15:36

Tgt Ion: 43 Resp: 39353

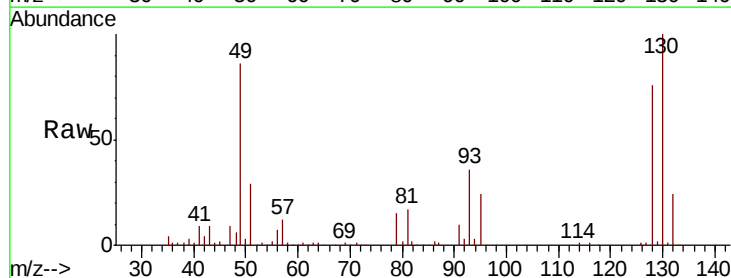
Ion Ratio Lower Upper

43 100

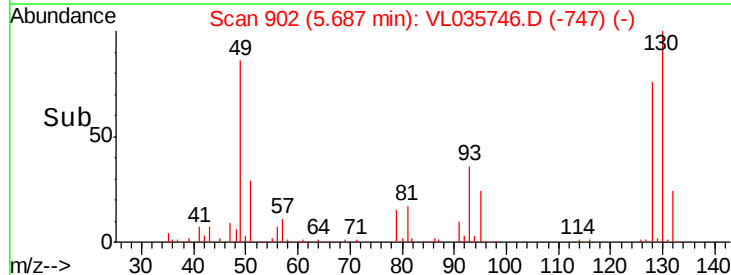
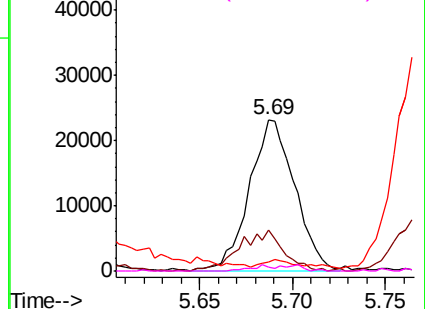
45 26.1 8.6 12.8#

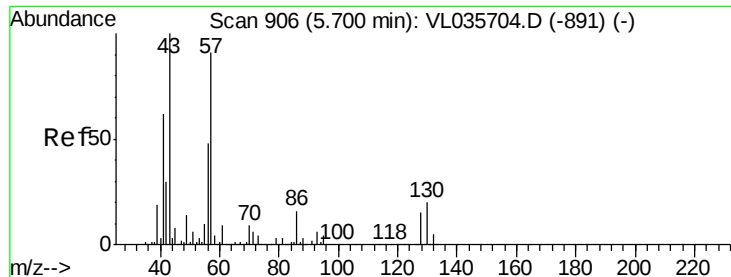
61 0.0 10.4 15.6#

70 3.8 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

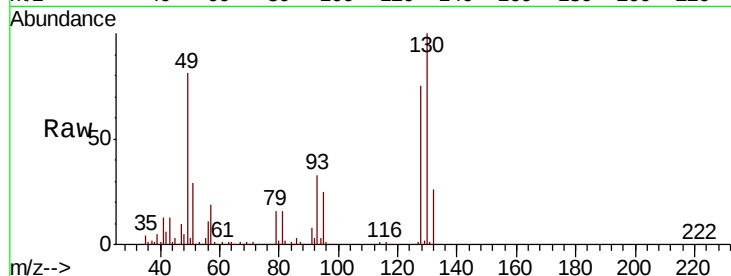




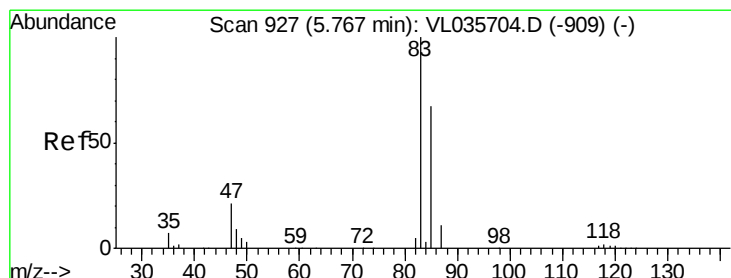
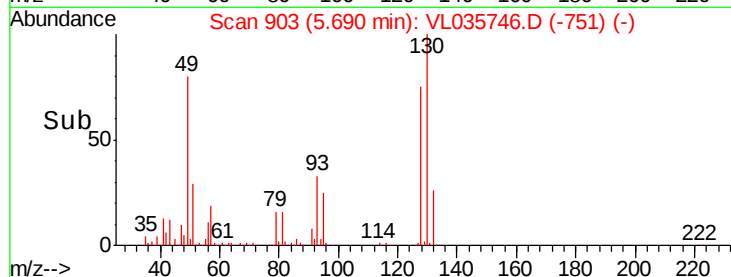
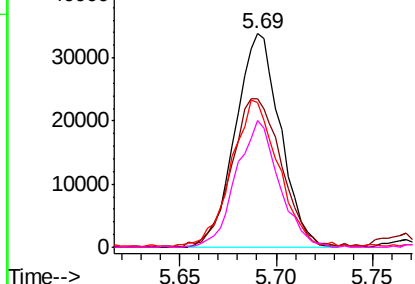
#26
Hexane
Concen: 0.480 ppbv
RT: 5.69 min Scan# 903
Delta R.T. -0.01 min
Lab File: VL035746.D
Acq: 8 Oct 2020 15:36

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 57 Resp: 54716
Ion Ratio Lower Upper
57 100
41 77.5 57.9 86.9
43 72.2 143.8 215.6#
56 56.6 43.0 64.6

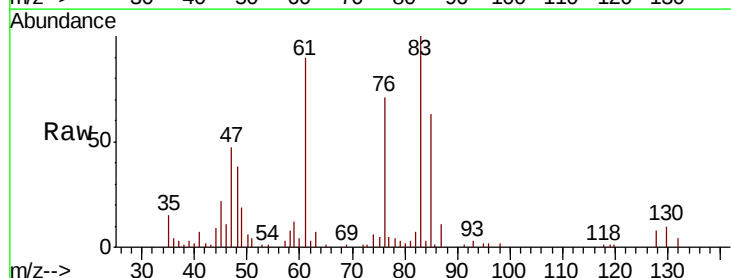


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

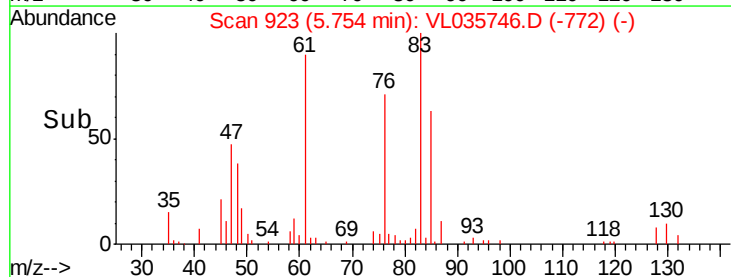
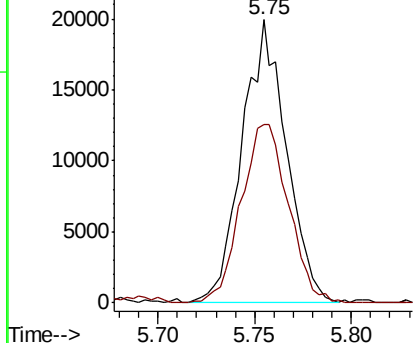


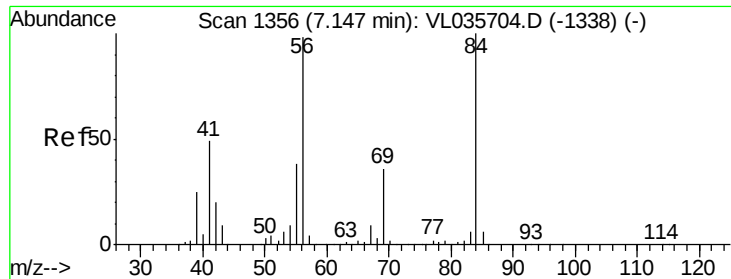
#29
Chloroform
Concen: 0.137 ppbv
RT: 5.75 min Scan# 923
Delta R.T. -0.01 min
Lab File: VL035746.D
Acq: 8 Oct 2020 15:36

Tgt Ion: 83 Resp: 31641
Ion Ratio Lower Upper
83 100
85 63.3 54.0 81.0



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0

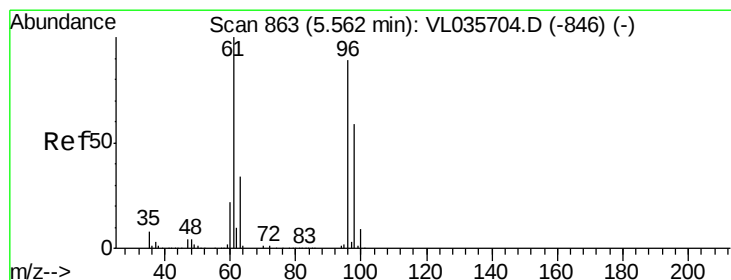
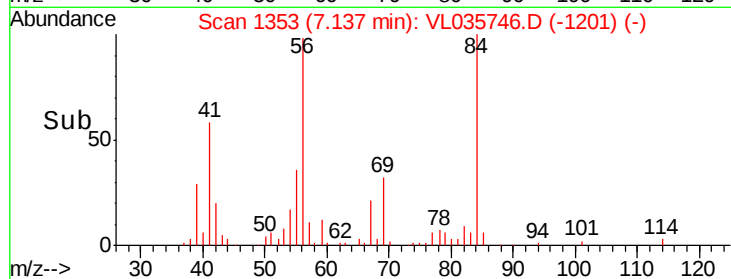
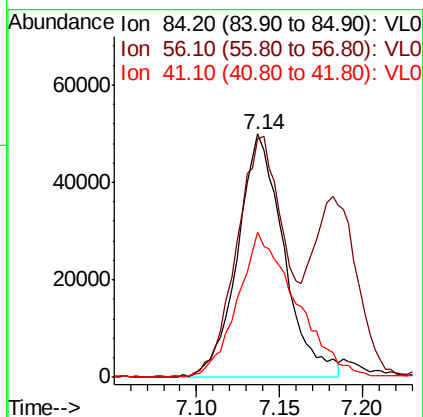
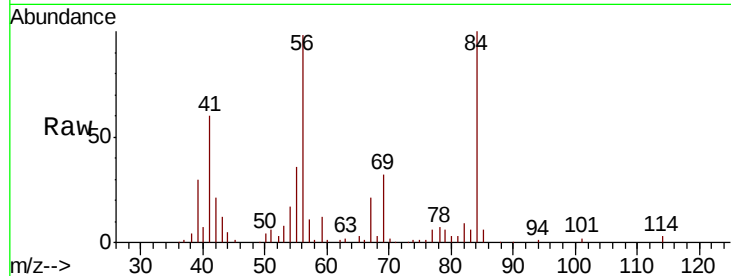




#30
Cyclohexane
Concen: 0.849 ppbv
RT: 7.14 min Scan# 1353
Delta R.T. -0.01 min
Lab File: VL035746.D
Acq: 8 Oct 2020 15:36

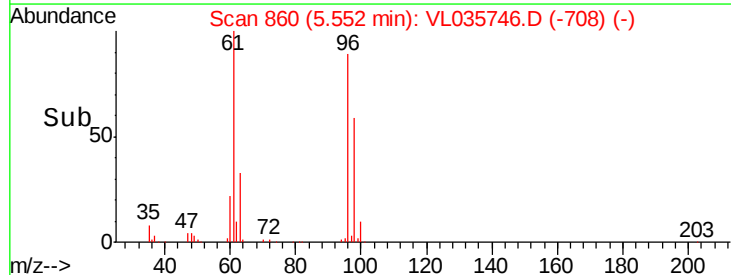
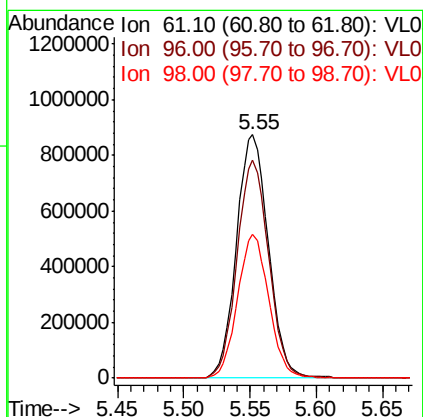
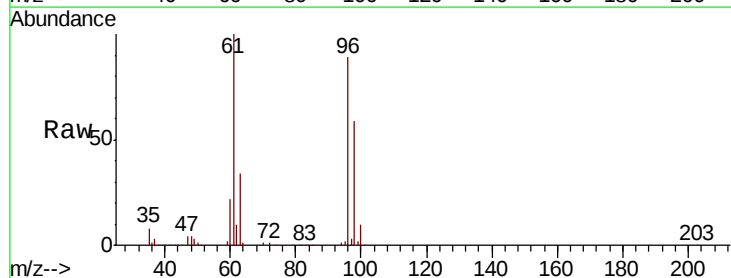
Instrument :
MSVOA_L
ClientSampleId :

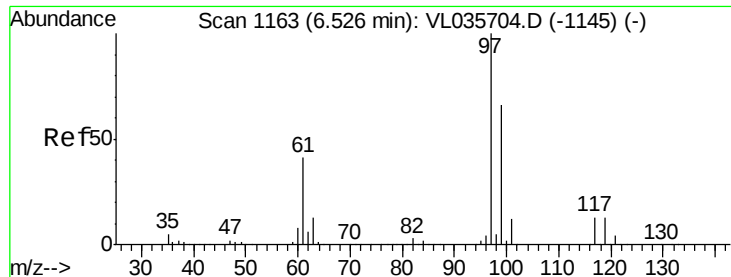
Tot Ion: 84 Resp: 95428
Ion Ratio Lower Upper
84 100
56 108.3 84.6 127.0
41 77.4 41.1 61.7#



#31
cis-1,2-Dichloroethene
Concen: 13.330 ppbv
RT: 5.55 min Scan# 860
Delta R.T. -0.01 min
Lab File: VL035746.D
Acq: 8 Oct 2020 15:36

Tgt Ion: 61 Resp: 1466331
Ion Ratio Lower Upper
61 100
96 89.4 71.4 107.2
98 58.8 47.4 71.2





#32

1,1,1-Trichloroethane

Concen: 0.706 ppbv

RT: 6.52 min Scan# 1161

Delta R.T. -0.01 min

Lab File: VL035746.D

Acq: 8 Oct 2020 15:36

Instrument :

MSVOA_L

ClientSampleId :

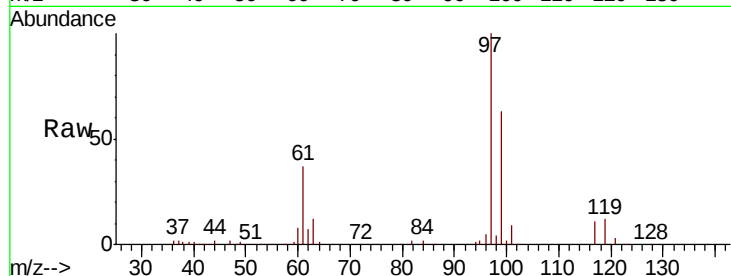
Tot Ion: 97 Resp: 144104

Ion Ratio Lower Upper

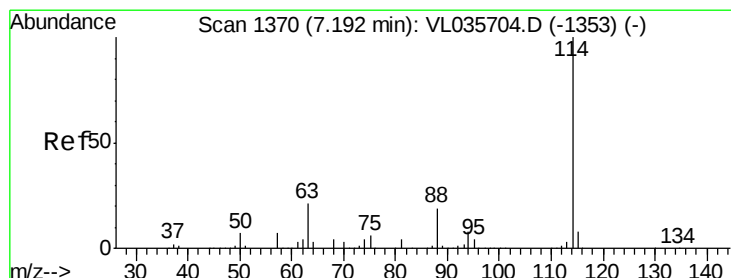
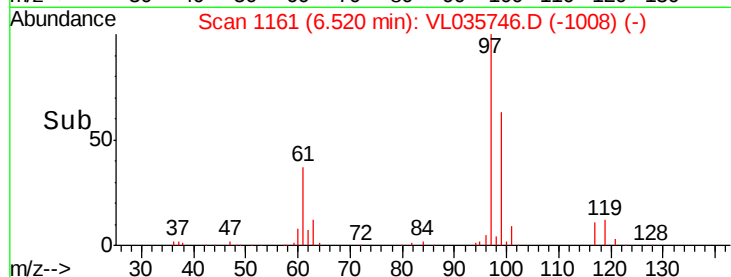
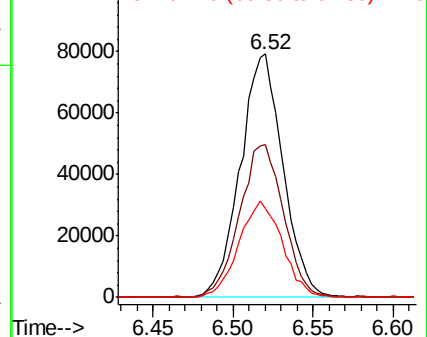
97 100

99 64.4 52.7 79.1

61 40.4 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: VL035746.D

Acq: 8 Oct 2020 15:36

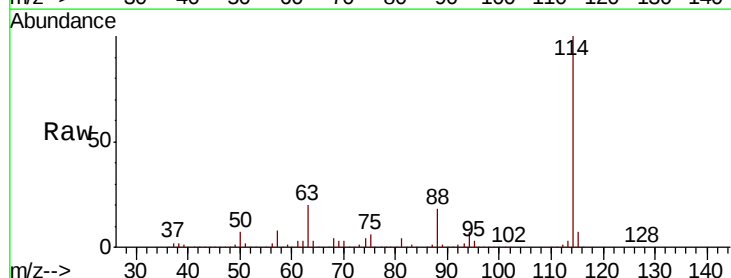
Tgt Ion: 114 Resp: 4134860

Ion Ratio Lower Upper

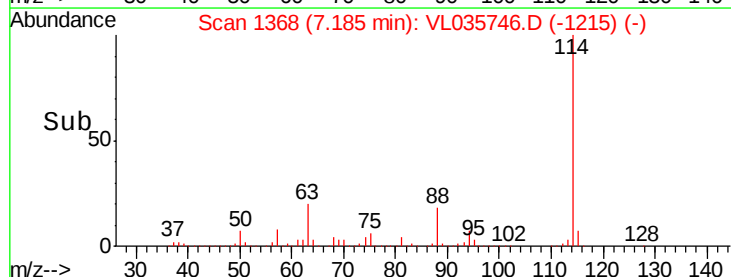
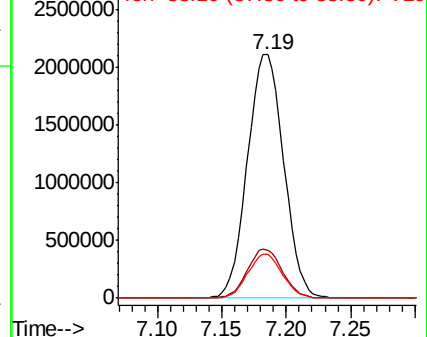
114 100

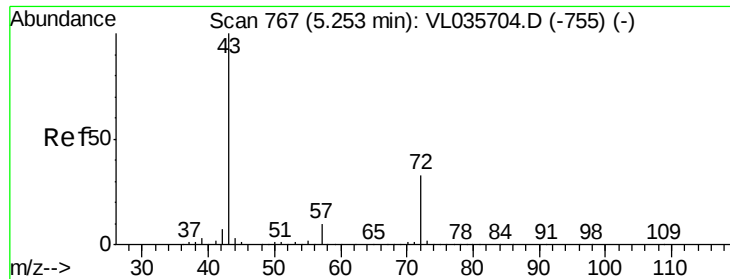
63 19.6 16.1 24.1

88 17.2 14.1 21.1



Abundance Ion 114.10 (113.80 to 114.80): V
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0





#34

2-Butanone

Concen: 0.423 ppbv

RT: 5.26 min Scan# 768

Delta R.T. 0.00 min

Lab File: VL035746.D

Acq: 8 Oct 2020 15:36

Instrument :

MSVOA_L

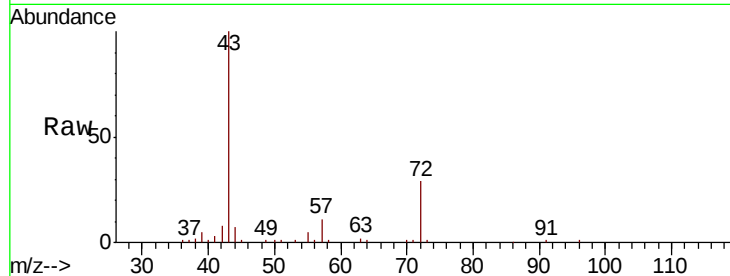
ClientSampleId :

Tot Ion: 43 Resp: 57913

Ion Ratio Lower Upper

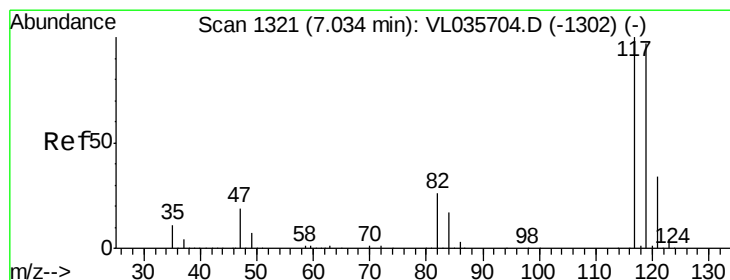
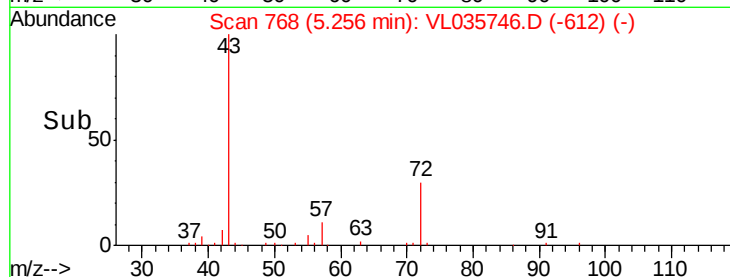
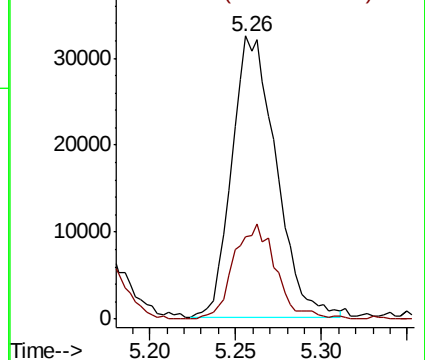
43 100

72 32.3 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: 0.077 ppbv

RT: 7.02 min Scan# 1317

Delta R.T. -0.01 min

Lab File: VL035746.D

Acq: 8 Oct 2020 15:36

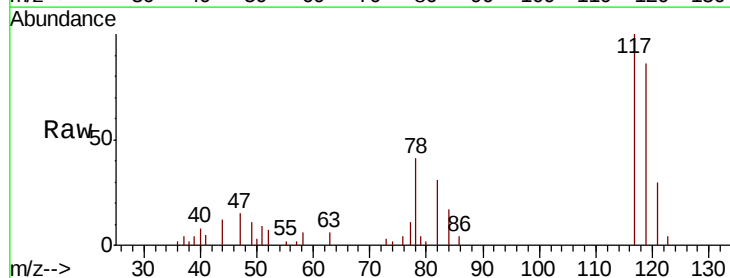
Tgt Ion: 117 Resp: 16531

Ion Ratio Lower Upper

117 100

119 86.0 77.7 116.5

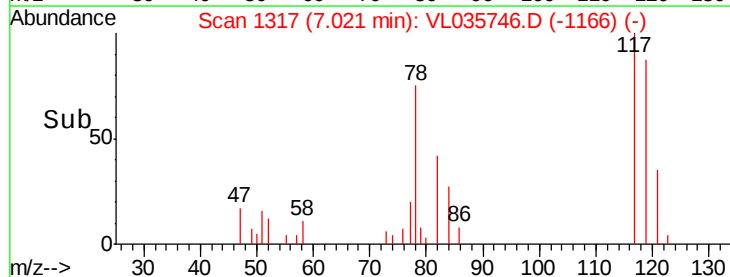
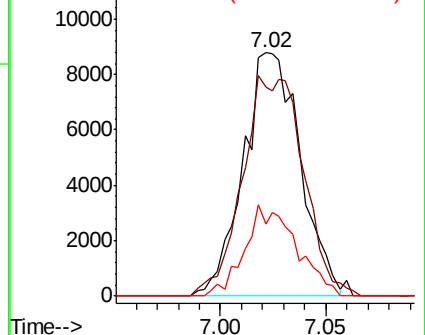
121 29.8 26.9 40.3

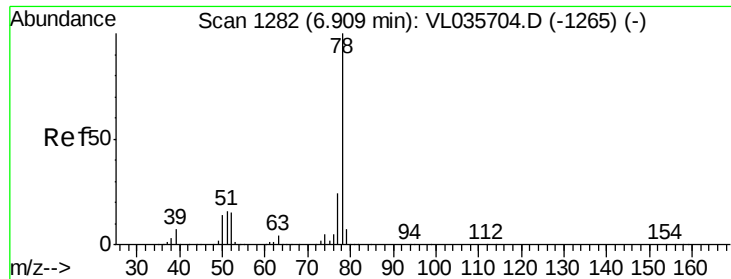


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V





#36

Benzene

Concen: 30.174 ppbv

RT: 6.90 min Scan# 1279

Delta R.T. -0.01 min

Lab File: VL035746.D

Acq: 8 Oct 2020 15:36

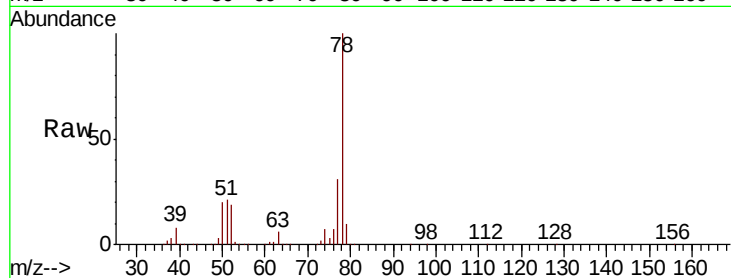
Instrument :

MSVOA_L

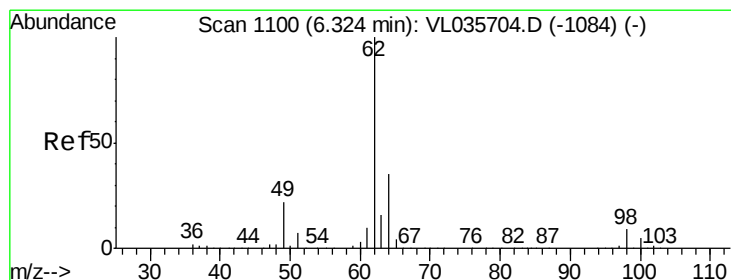
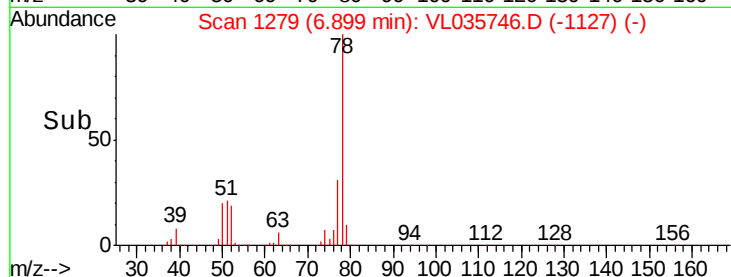
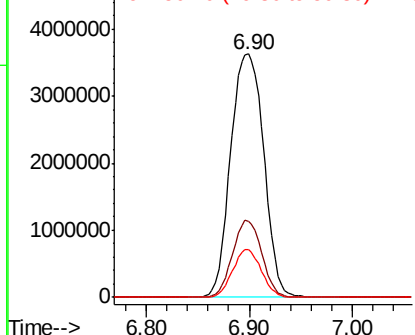
ClientSampled :

Tot Ion: 78 Resp: 8129644

Ion	Ratio	Lower	Upper
78	100		
77	31.4	19.3	28.9#
50	19.6	11.6	17.4#



Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0



#37

1,2-Dichloroethane

Concen: 2.061 ppbv

RT: 6.31 min Scan# 1096

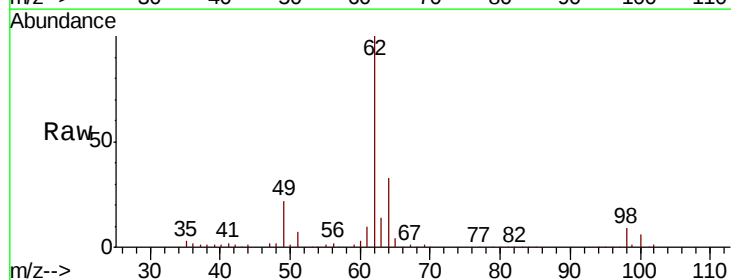
Delta R.T. -0.01 min

Lab File: VL035746.D

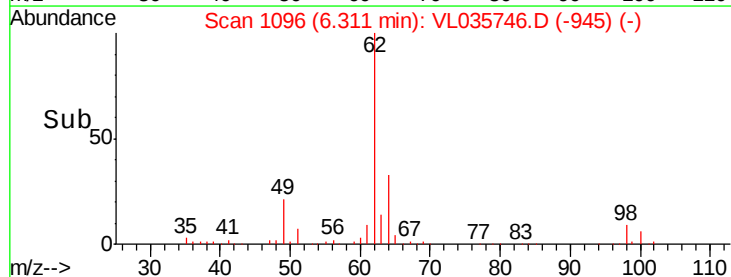
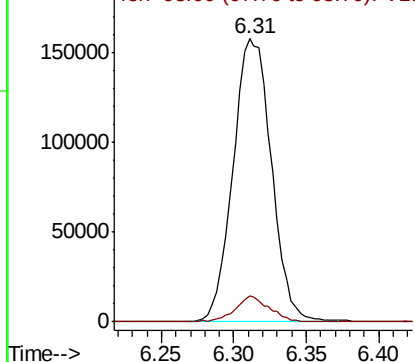
Acq: 8 Oct 2020 15:36

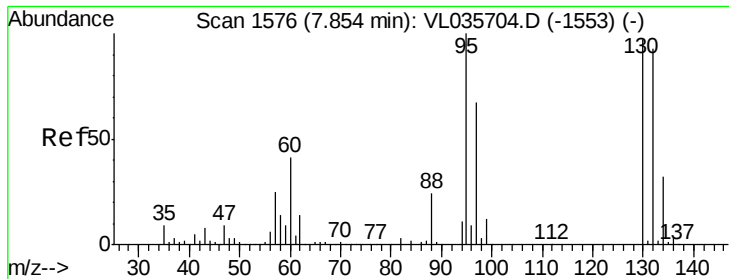
Tgt Ion: 62 Resp: 289392

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: 0.156 ppbv

RT: 7.84 min Scan# 1573

Delta R.T. -0.01 min

Lab File: VL035746.D

Acq: 8 Oct 2020 15:36

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:130 Resp: 20957

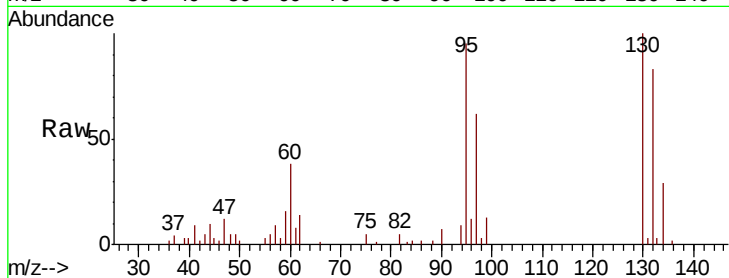
Ion Ratio Lower Upper

130 100

95 94.8 82.4 123.6

132 83.2 76.8 115.2

97 61.7 55.4 83.2

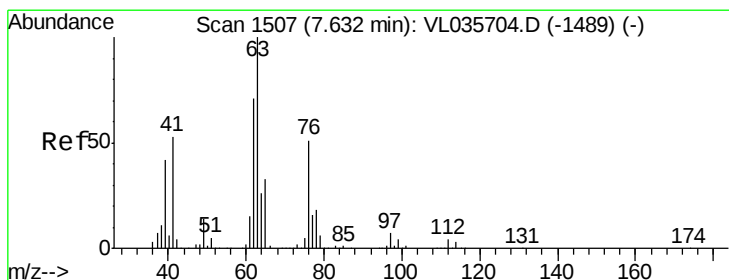
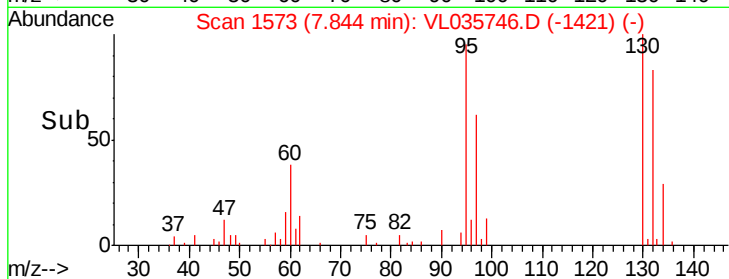
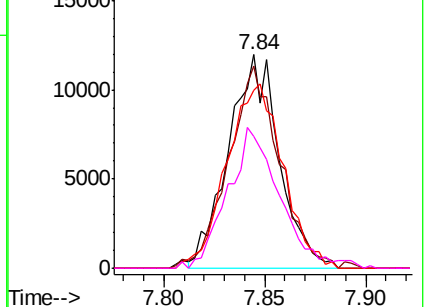


Abundance Ion 130.00 (129.70 to 130.70): V

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: 8.257 ppbv

RT: 7.18 min Scan# 1367

Delta R.T. -0.45 min

Lab File: VL035746.D

Acq: 8 Oct 2020 15:36

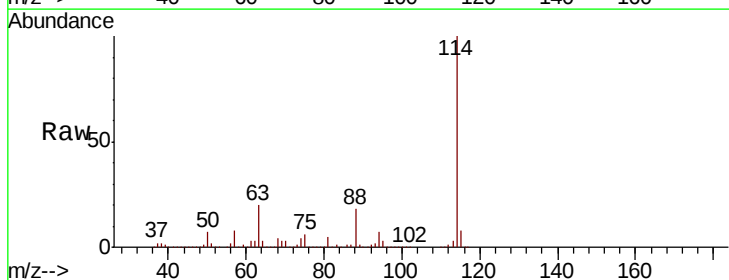
Tgt Ion: 63 Resp: 806360

Ion Ratio Lower Upper

63 100

41 0.9 42.6 63.8#

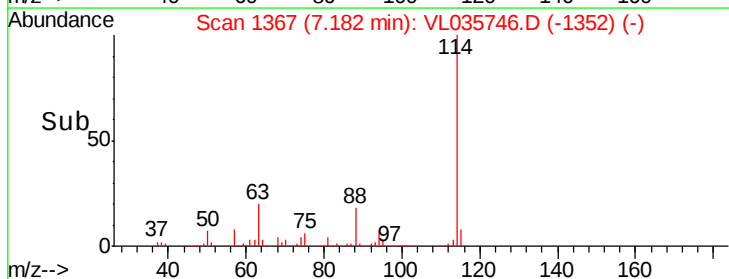
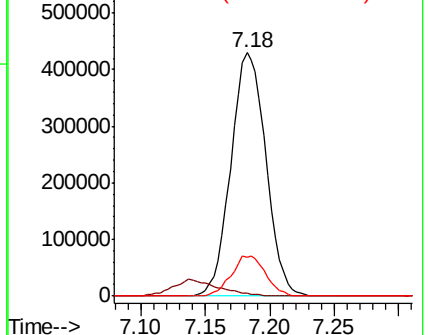
62 16.1 56.5 84.7#

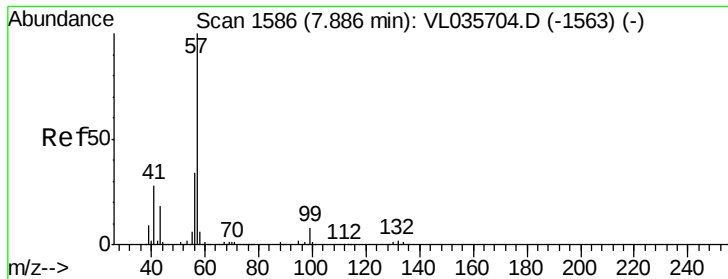


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#44

2,2,4-Trimethylpentane

Concen: 0.044 ppbv

RT: 7.88 min Scan# 1583

Delta R.T. -0.01 min

Lab File: VL035746.D

Acq: 8 Oct 2020 15:36

Instrument :

MSVOA_L

ClientSampleId :

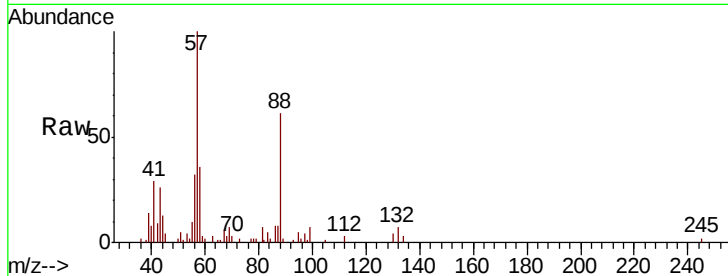
Tot Ion: 57 Resp: 16947

Ion Ratio Lower Upper

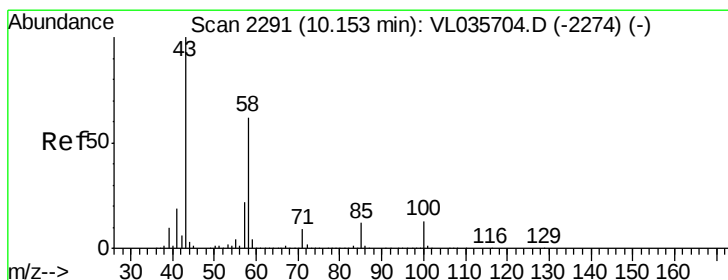
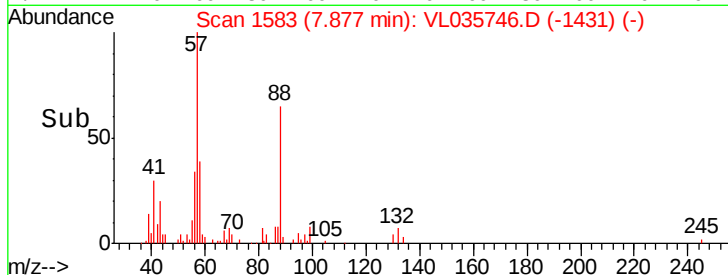
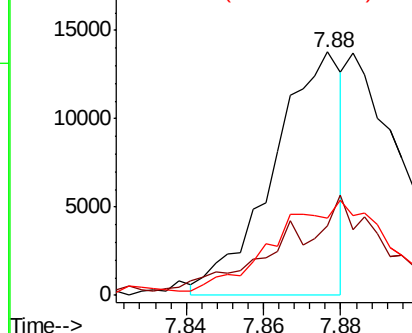
57 100

41 63.2 21.2 31.8#

56 70.3 25.8 38.8#



Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 56.10 (55.80 to 56.80): VL0



#51

2-Hexanone

Concen: 0.767 ppbv

RT: 9.83 min Scan# 2189

Delta R.T. -0.33 min

Lab File: VL035746.D

Acq: 8 Oct 2020 15:36

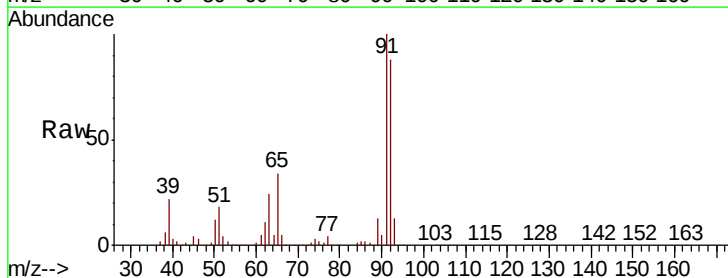
Tgt Ion: 43 Resp: 123412

Ion Ratio Lower Upper

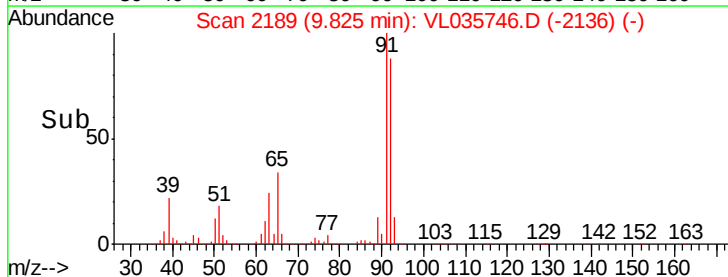
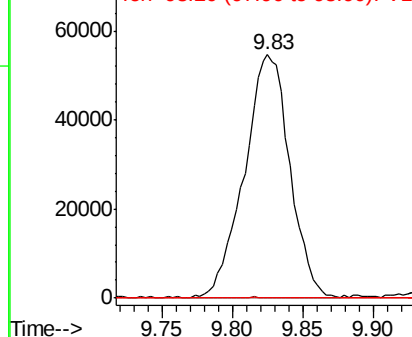
43 100

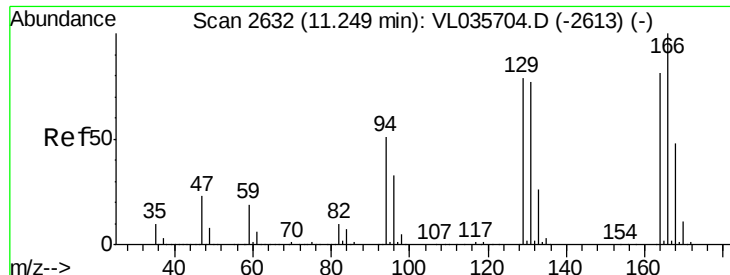
58 0.0 48.7 73.1#

98 0.0 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: 0.035 ppbv

RT: 11.24 min Scan# 2628

Delta R.T. -0.01 min

Lab File: VL035746.D

Acq: 8 Oct 2020 15:36

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:164 Resp: 4487

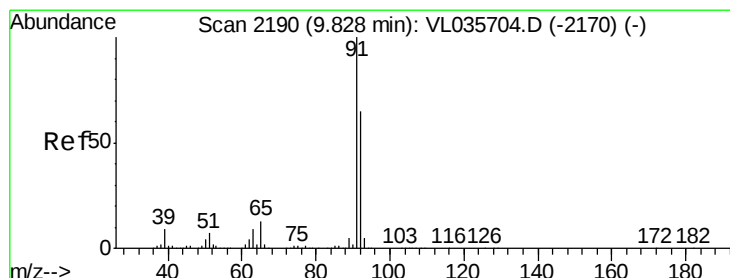
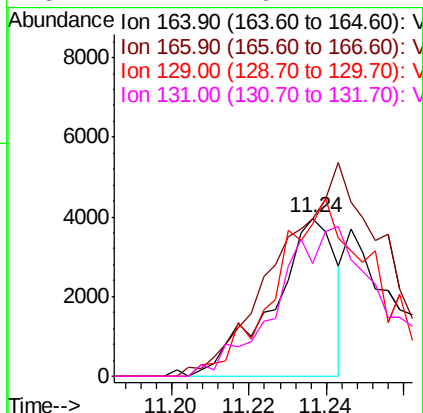
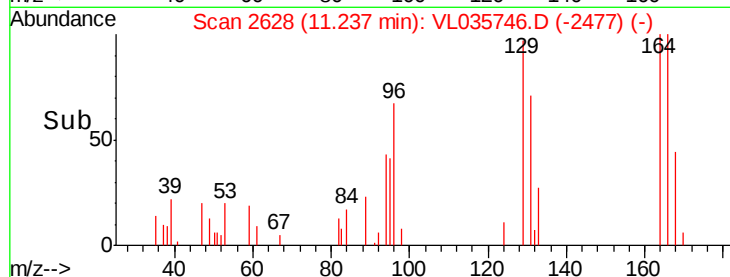
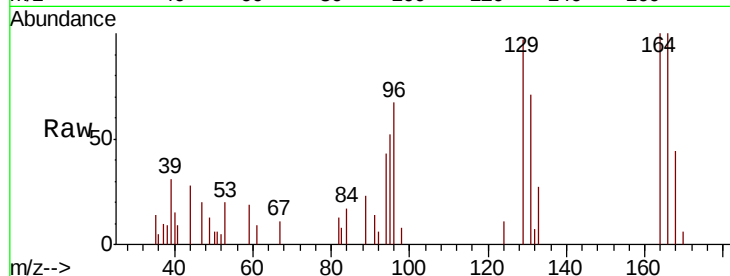
Ion Ratio Lower Upper

164 100

166 94.5 98.7 148.1#

129 96.6 78.4 117.6

131 71.4 76.2 114.2#



#53

Toluene

Concen: 51.612 ppbv

RT: 9.83 min Scan# 2190

Delta R.T. -0.00 min

Lab File: VL035746.D

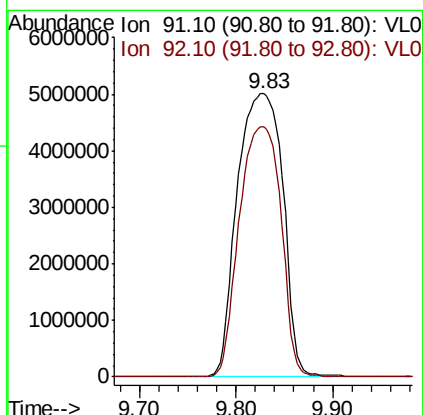
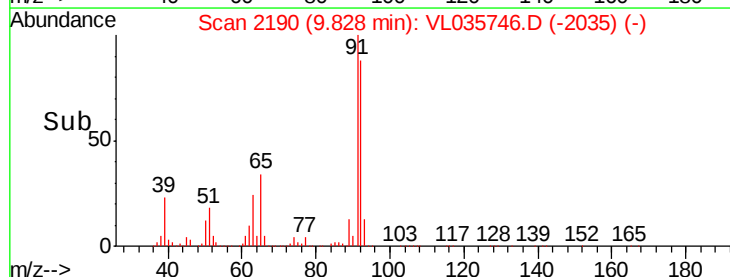
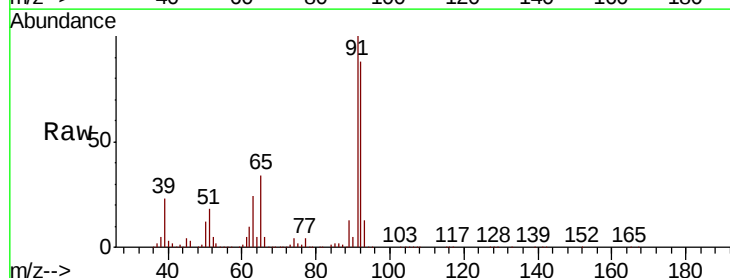
Acq: 8 Oct 2020 15:36

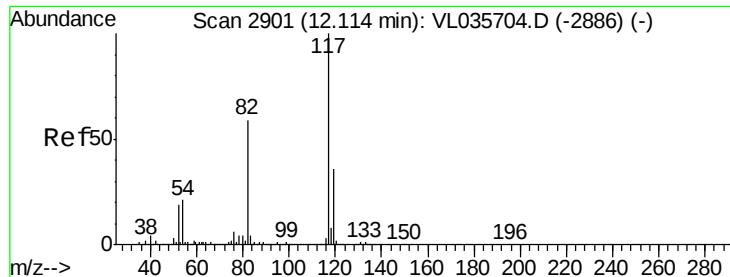
Tgt Ion: 91 Resp:16397306

Ion Ratio Lower Upper

91 100

92 81.1 50.0 75.0#

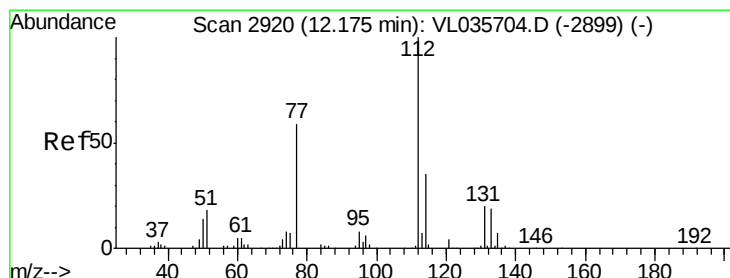
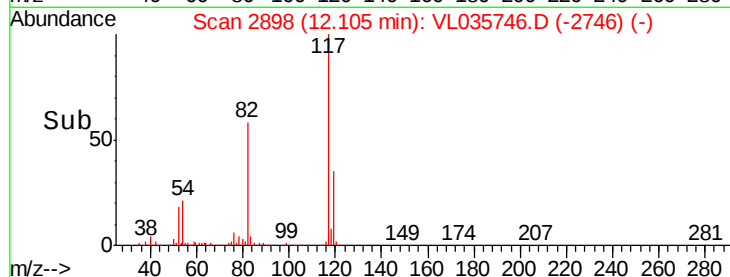
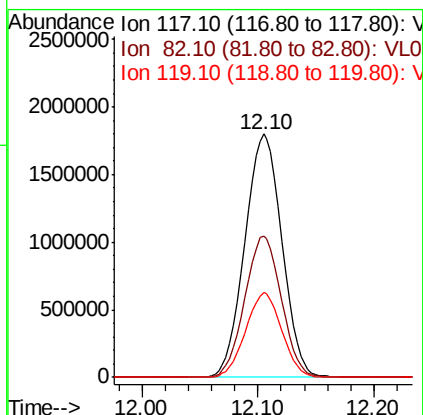
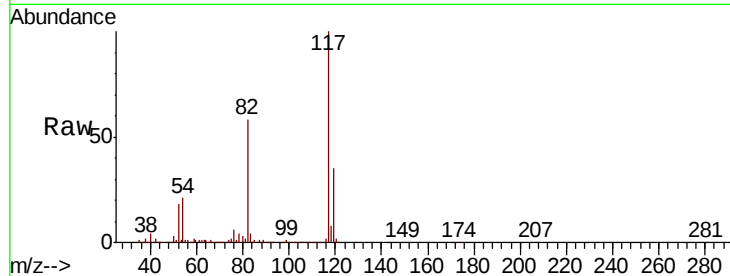




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2898
Delta R.T. -0.01 min
Lab File: VL035746.D
Acq: 8 Oct 2020 15:36

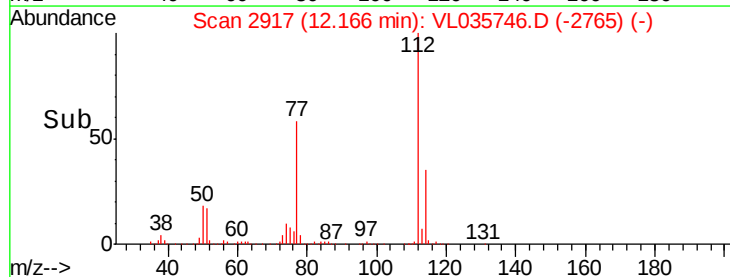
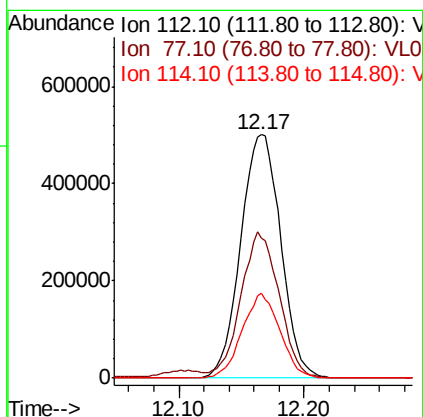
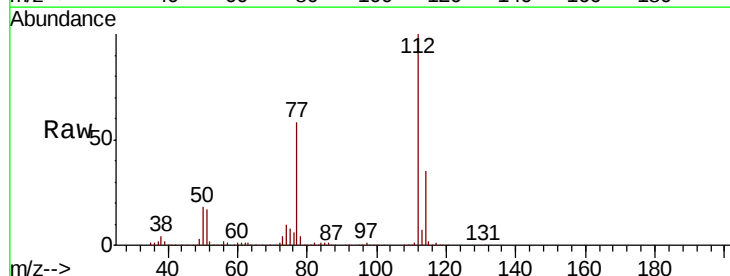
Instrument :
MSVOA_L
ClientSampleId :

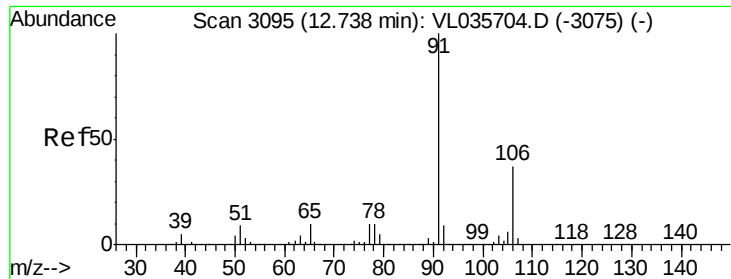
Tot Ion:117 Resp: 4006439
Ion Ratio Lower Upper
117 100
82 57.5 46.1 69.1
119 33.9 28.0 42.0



#57
Chlorobenzene
Concen: 3.674 ppbv
RT: 12.17 min Scan# 2917
Delta R.T. -0.01 min
Lab File: VL035746.D
Acq: 8 Oct 2020 15:36

Tgt Ion:112 Resp: 1111843
Ion Ratio Lower Upper
112 100
77 57.4 48.2 72.2
114 35.0 31.9 39.1





#58

Ethyl Benzene

Concen: 6.442 ppbv

RT: 12.73 min Scan# 3092

Delta R.T. -0.01 min

Lab File: VL035746.D

Acq: 8 Oct 2020 15:36

Instrument :

MSVOA_L

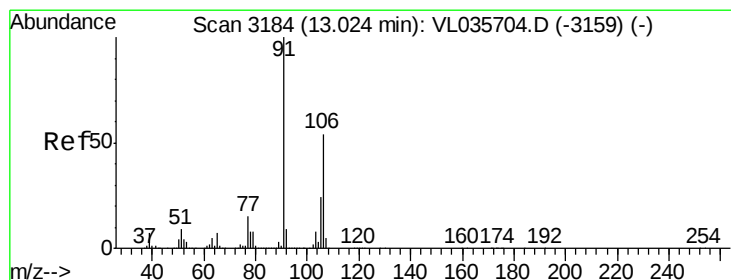
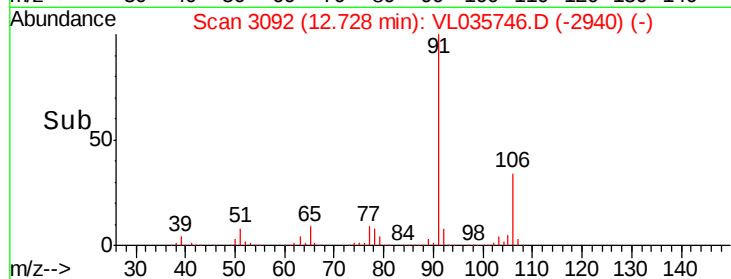
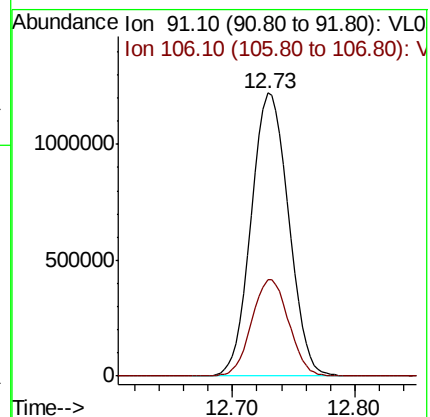
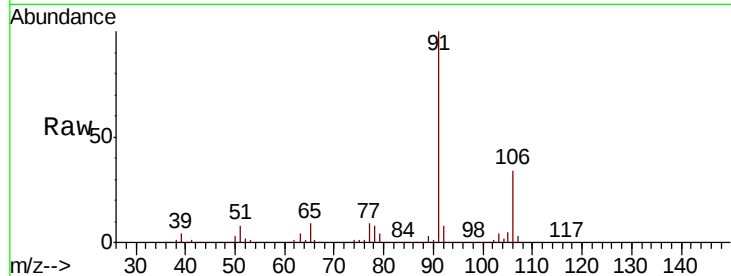
ClientSampled :

Tot Ion: 91 Resp: 2590491

Ion Ratio Lower Upper

91 100

106 34.2 29.7 44.5



#59

m/p-Xylene

Concen: 38.531 ppbv

RT: 12.99 min Scan# 3173

Delta R.T. -0.04 min

Lab File: VL035746.D

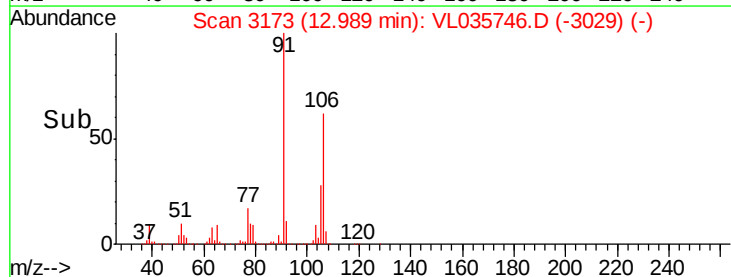
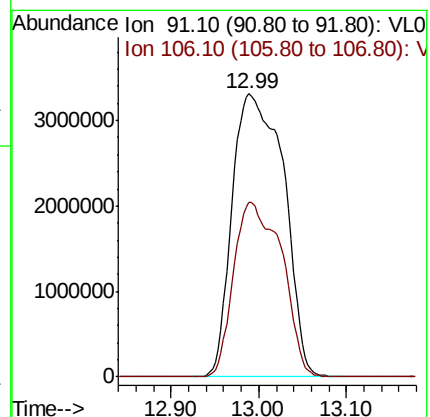
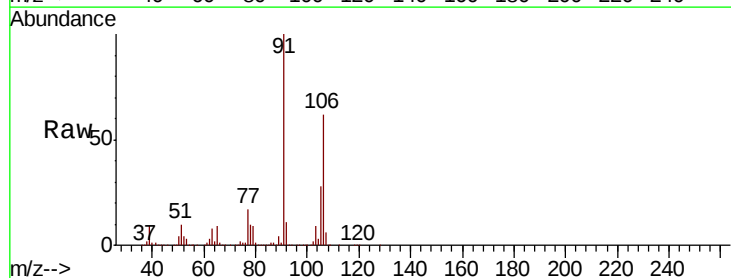
Acq: 8 Oct 2020 15:36

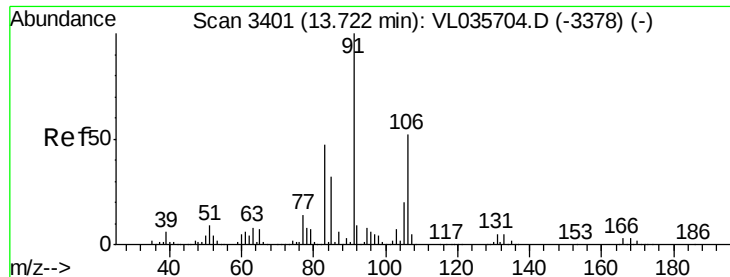
Tgt Ion: 91 Resp: 13530855

Ion Ratio Lower Upper

91 100

106 57.9 41.4 62.0

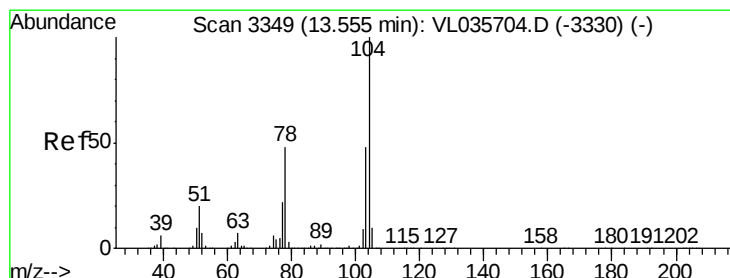
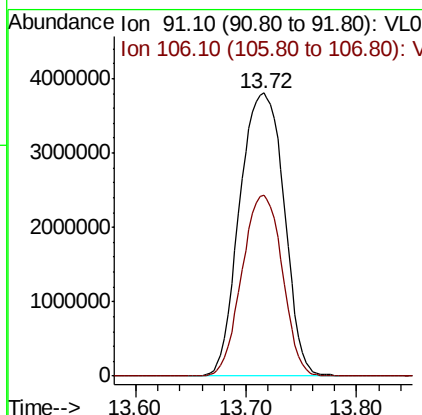
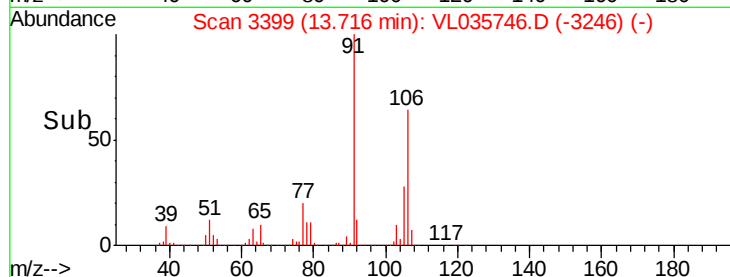
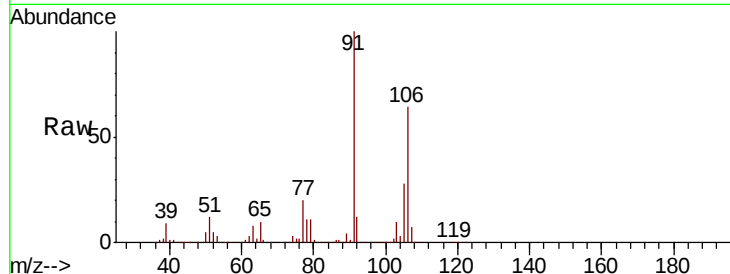




#60
o-Xylene
Concen: 29.904 ppbv
RT: 13.72 min Scan# 3399
Delta R.T. -0.01 min
Lab File: VL035746.D
Acq: 8 Oct 2020 15:36

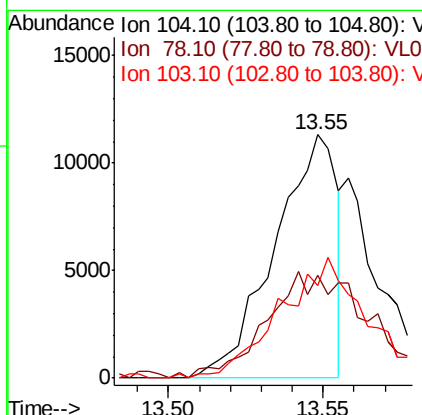
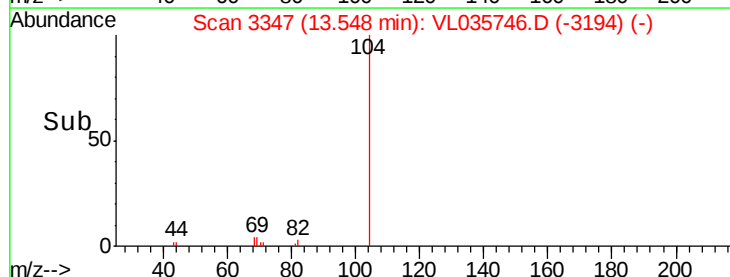
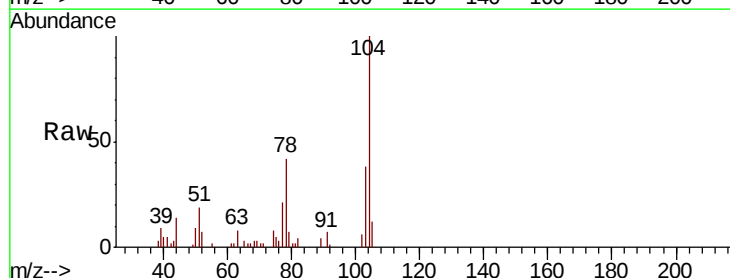
Instrument :
MSVOA_L
ClientSampleId :

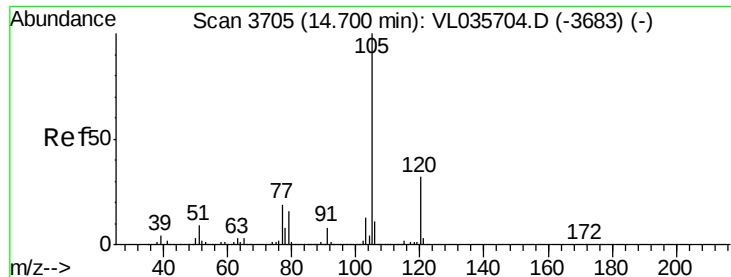
Tot Ion: 91 Resp: 10622845
Ion Ratio Lower Upper
91 100
106 58.2 25.0 75.0



#61
Styrene
Concen: 0.064 ppbv
RT: 13.55 min Scan# 3347
Delta R.T. -0.01 min
Lab File: VL035746.D
Acq: 8 Oct 2020 15:36

Tgt Ion: 104 Resp: 15706
Ion Ratio Lower Upper
104 100
78 0.0 37.2 55.8#
103 0.0 38.2 57.2#





#62

Isopropylbenzene

Concen: 4.856 ppbv

RT: 14.69 min Scan# 3702

Delta R.T. -0.01 min

Lab File: VL035746.D

Acq: 8 Oct 2020 15:36

Instrument :

MSVOA_L

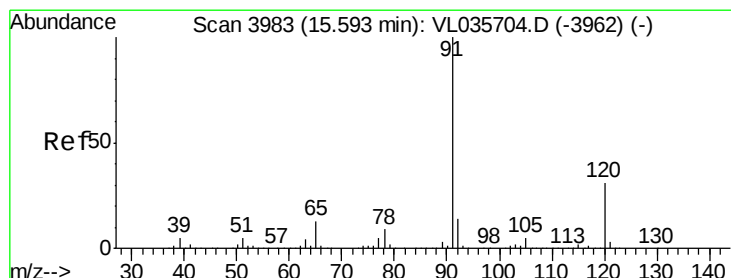
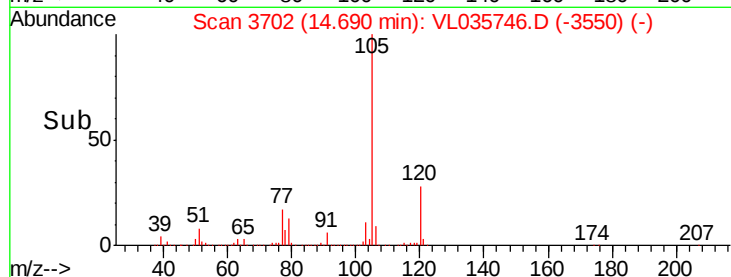
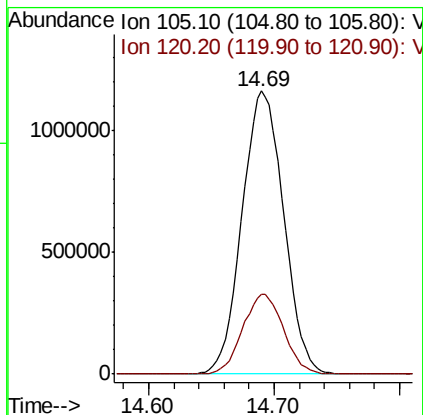
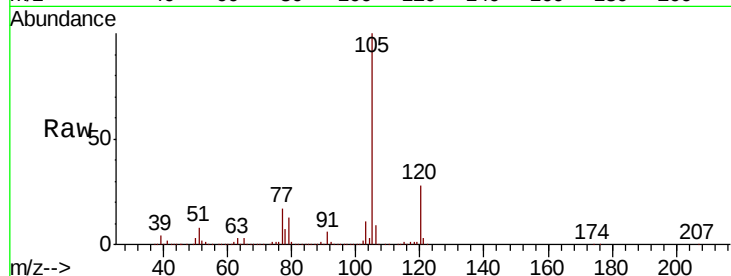
ClientSampleId :

Tot Ion:105 Resp: 2675633

Ion Ratio Lower Upper

105 100

120 27.8 24.1 36.1



#64

n-propylbenzene

Concen: 7.026 ppbv

RT: 15.59 min Scan# 3981

Delta R.T. -0.01 min

Lab File: VL035746.D

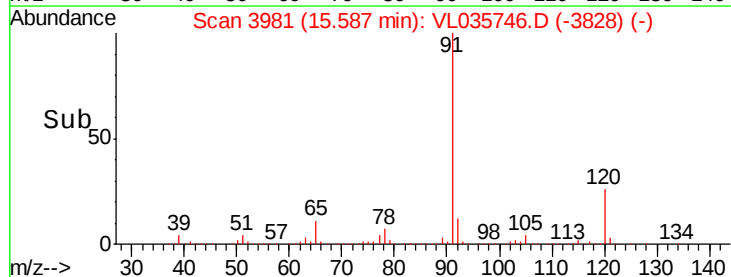
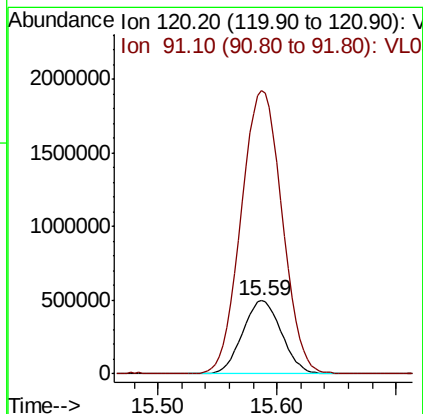
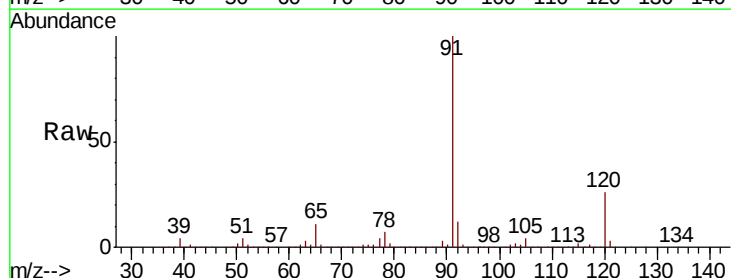
Acq: 8 Oct 2020 15:36

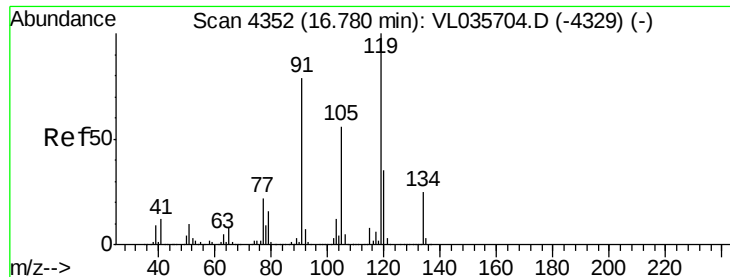
Tgt Ion:120 Resp: 1132988

Ion Ratio Lower Upper

120 100

91 405.3 300.4 450.6

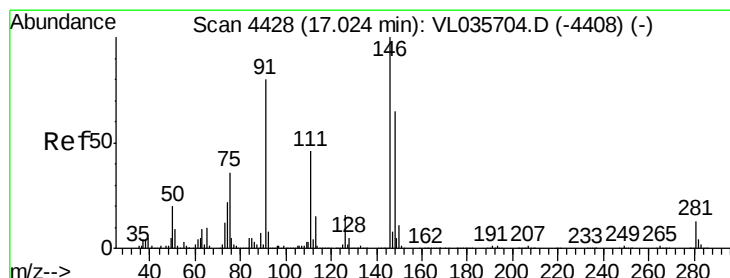
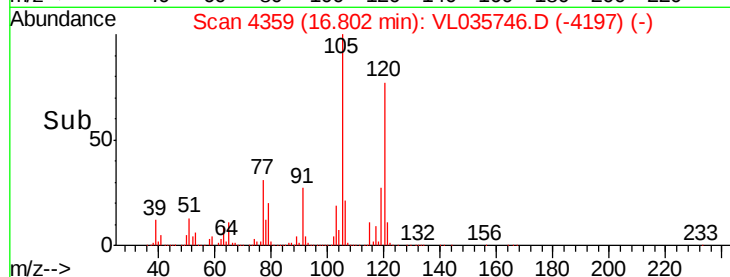
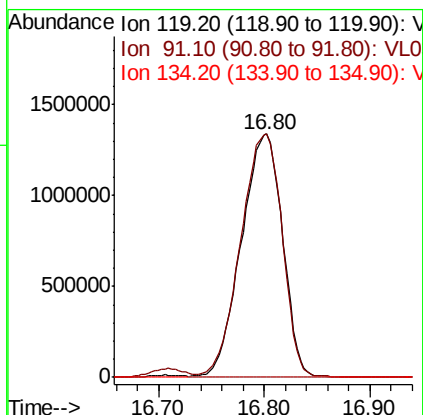
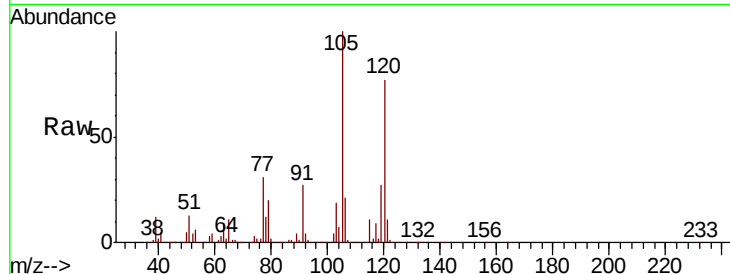




#65
 tert-Butylbenzene
 Concen: 7.236 ppbv
 RT: 16.80 min Scan# 4359
 Delta R.T. 0.02 min
 Lab File: VL035746.D
 Acq: 8 Oct 2020 15:36

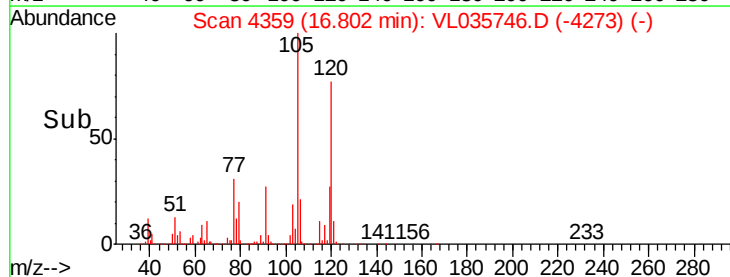
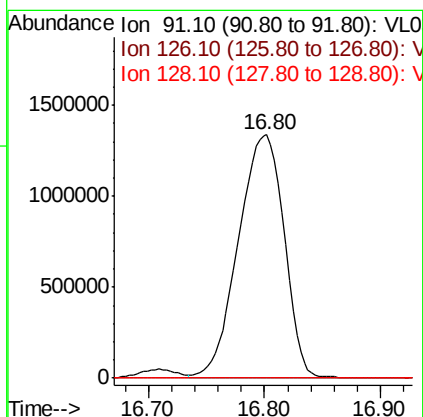
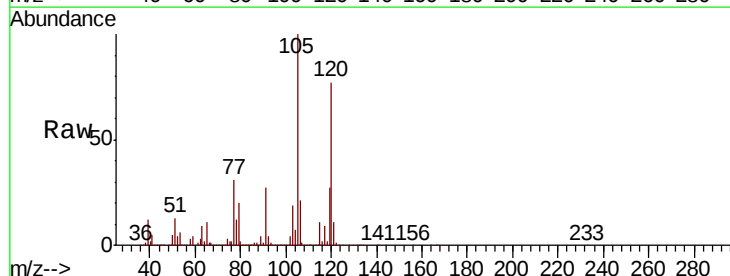
Instrument :
 MSVOA_L
 ClientSampleId :

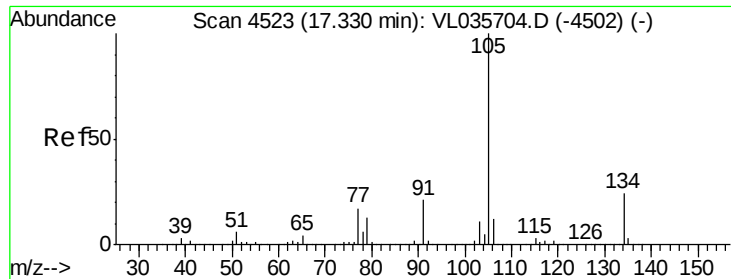
Tot Ion: 119 Resp: 3625025
 Ion Ratio Lower Upper
 119 100
 91 101.4 62.4 93.6#
 134 0.3 18.2 27.2#



#66
 Benzyl Chloride
 Concen: 24.031 ppbv
 RT: 16.80 min Scan# 4359
 Delta R.T. -0.22 min
 Lab File: VL035746.D
 Acq: 8 Oct 2020 15:36

Tgt Ion: 91 Resp: 3647351
 Ion Ratio Lower Upper
 91 100
 126 0.0 15.3 22.9#
 128 0.0 5.0 7.4#





#67

sec-Butylbenzene

Concen: 0.474 ppbv

RT: 17.33 min Scan# 4522

Delta R.T. -0.00 min

Lab File: VL035746.D

Acq: 8 Oct 2020 15:36

Instrument :

MSVOA_L

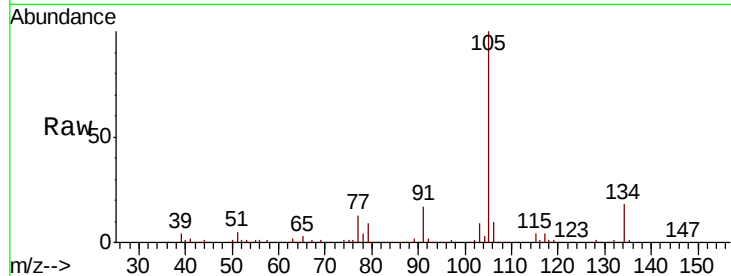
ClientSampleId :

Tot Ion:105 Resp: 327850

Ion Ratio Lower Upper

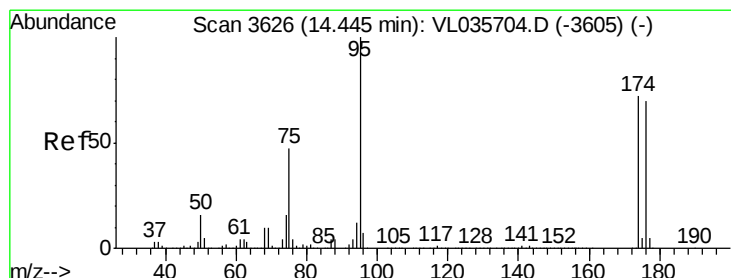
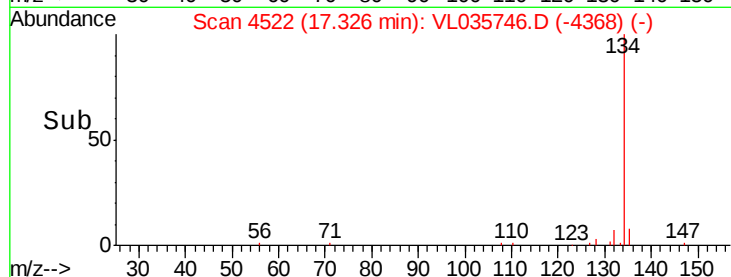
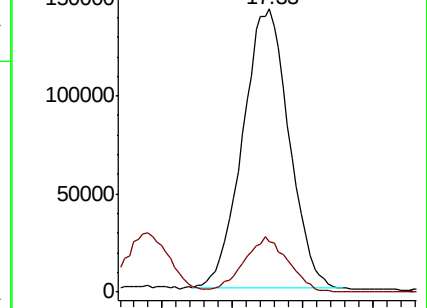
105 100

134 19.0 17.6 26.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.247 ppbv

RT: 14.44 min Scan# 3625

Delta R.T. -0.00 min

Lab File: VL035746.D

Acq: 8 Oct 2020 15:36

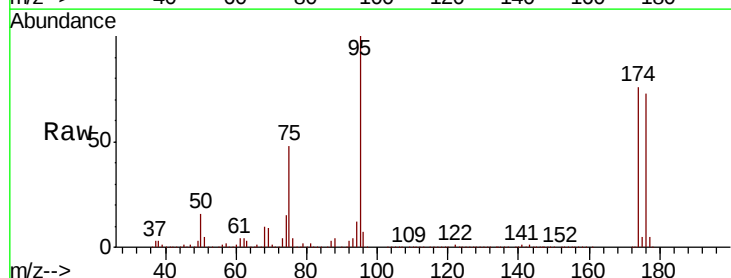
Tgt Ion: 95 Resp: 3076202

Ion Ratio Lower Upper

95 100

174 75.2 59.6 89.4

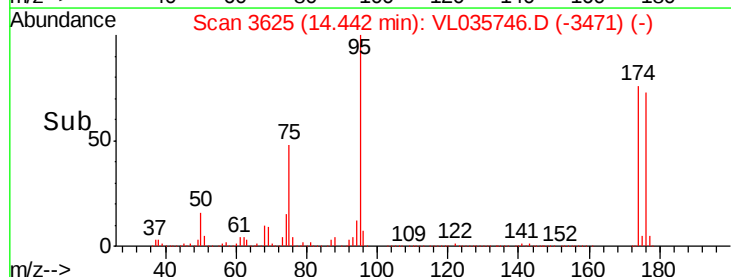
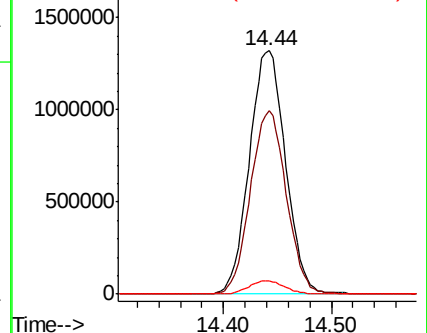
175 5.4 4.2 6.4

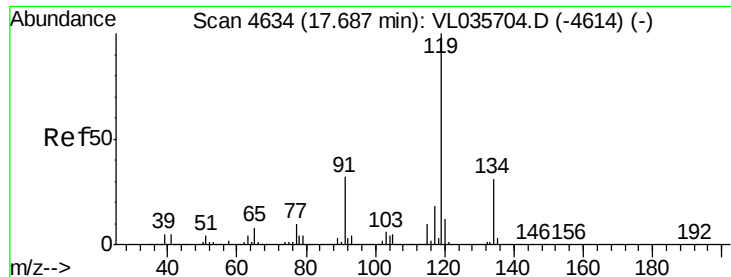


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

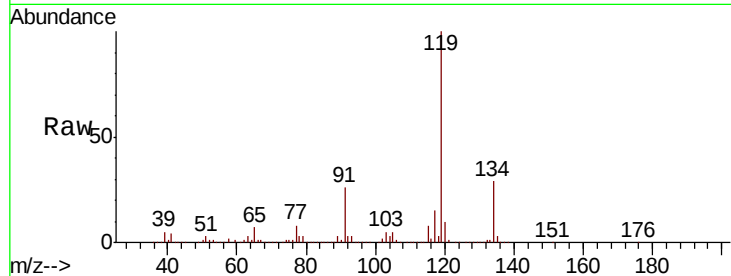




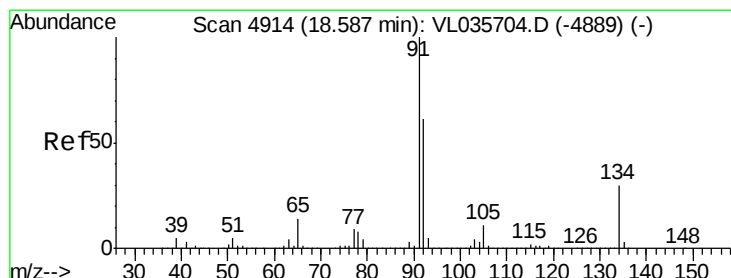
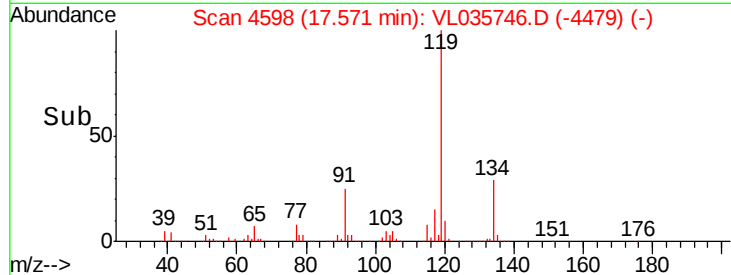
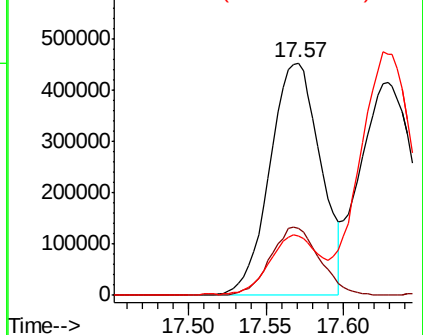
#69
 p-Isopropyltoluene
 Concen: 1.829 ppbv
 RT: 17.57 min Scan# 4598
 Delta R.T. -0.12 min
 Lab File: VL035746.D
 Acq: 8 Oct 2020 15:36

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:119 Resp: 1029269
 Ion Ratio Lower Upper
 119 100
 134 28.6 23.9 35.9
 91 23.9 23.8 35.6

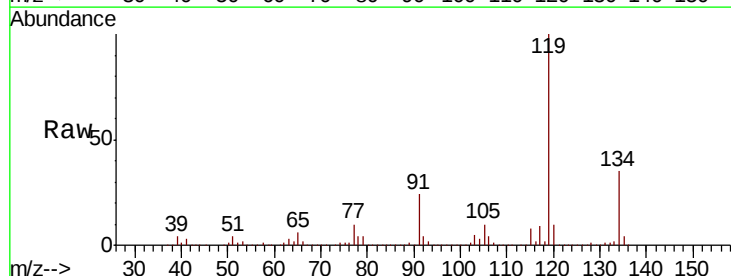


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

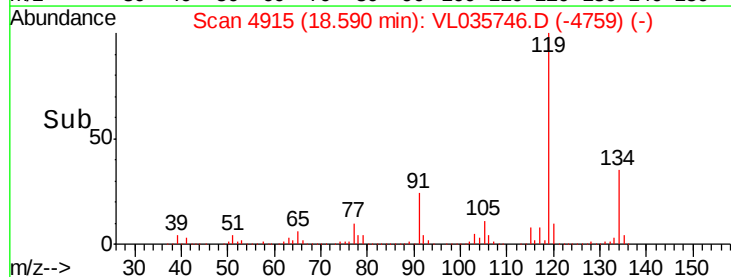
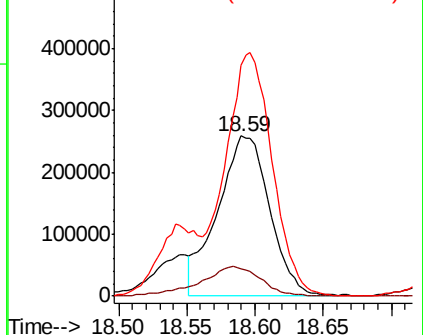


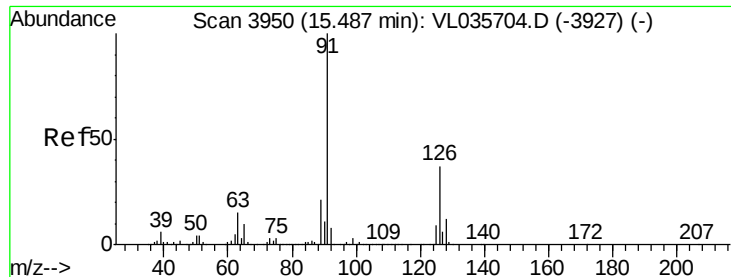
#70
 n-Butylbenzene
 Concen: 1.172 ppbv
 RT: 18.59 min Scan# 4915
 Delta R.T. 0.00 min
 Lab File: VL035746.D
 Acq: 8 Oct 2020 15:36

Tgt Ion: 91 Resp: 679118
 Ion Ratio Lower Upper
 91 100
 92 22.1 47.0 70.4#
 134 174.3 21.9 32.9#



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

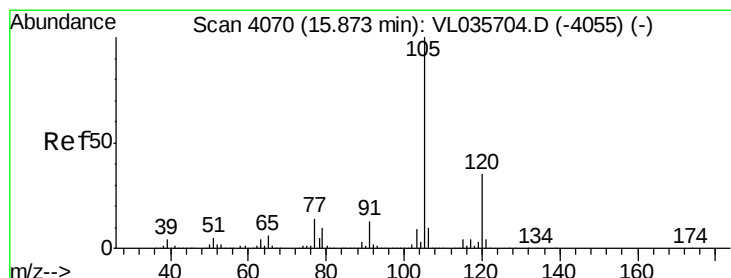
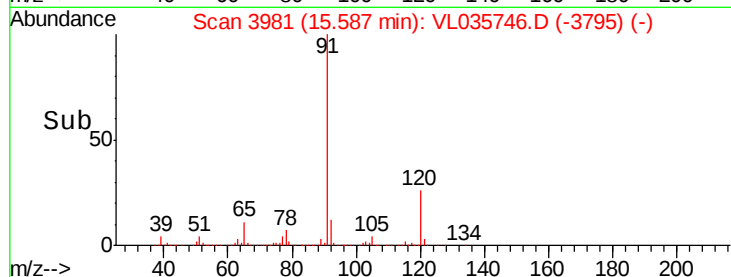
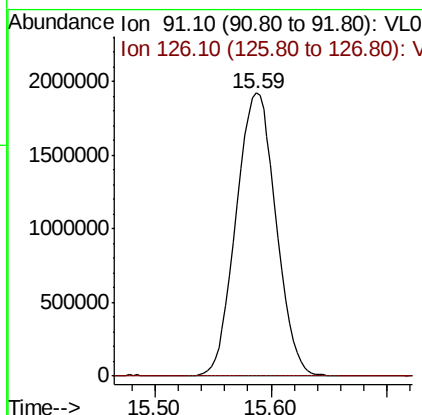
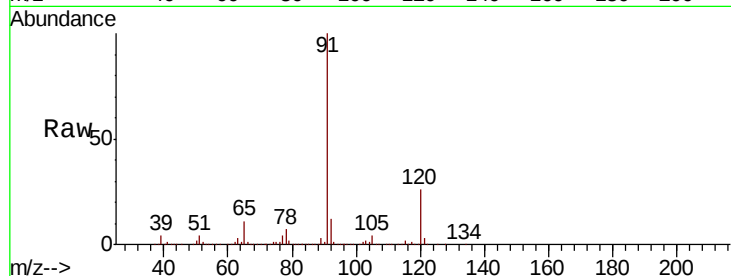




#71
2-Chlorotoluene
Concen: 11.408 ppbv
RT: 15.59 min Scan# 3981
Delta R.T. 0.10 min
Lab File: VL035746.D
Acq: 8 Oct 2020 15:36

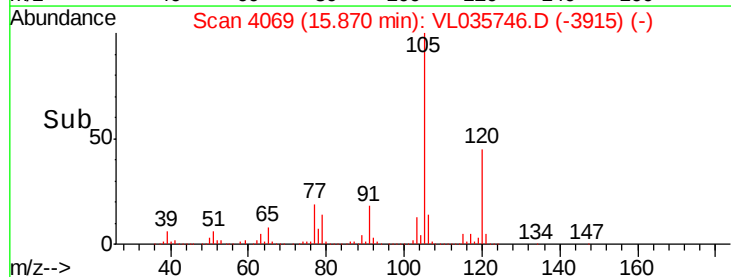
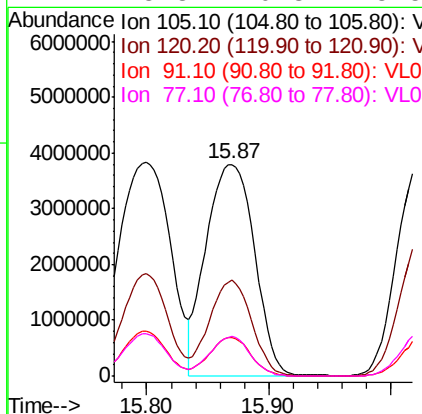
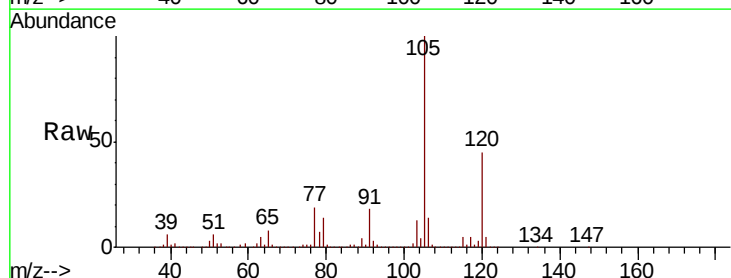
Instrument :
MSVOA_L
ClientSampleId :

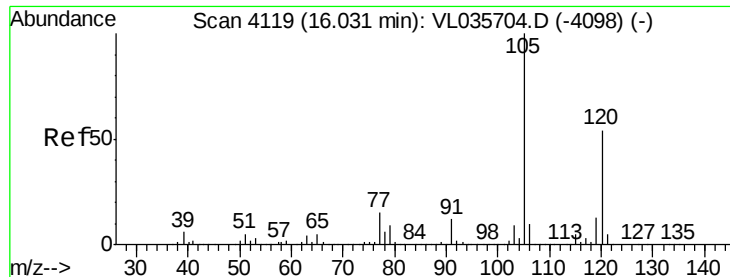
Tot Ion: 91 Resp: 4584798
Ion Ratio Lower Upper
91 100
126 0.0 14.4 57.4#



#72
4-Ethyltoluene
Concen: 24.889 ppbv
RT: 15.87 min Scan# 4069
Delta R.T. -0.00 min
Lab File: VL035746.D
Acq: 8 Oct 2020 15:36

Tgt Ion: 105 Resp: 10473883
Ion Ratio Lower Upper
105 100
120 39.7 26.5 39.7#
91 15.6 10.2 15.2#
77 15.8 10.3 15.5#





#73

1,3,5-Trimethylbenzene

Concen: 29.116 ppbv

RT: 16.03 min Scan# 4118

Delta R.T. -0.00 min

Lab File: VL035746.D

Acq: 8 Oct 2020 15:36

Instrument :

MSVOA_L

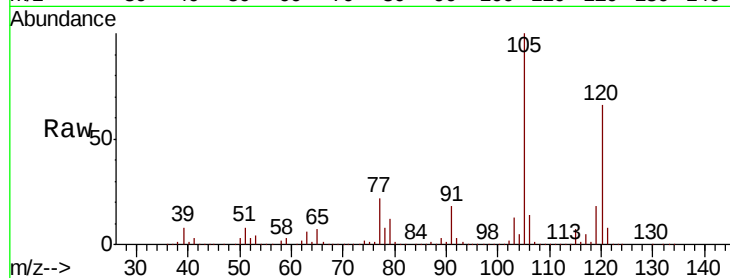
ClientSampled :

Tot Ion:105 Resp:11578417

Ion Ratio Lower Upper

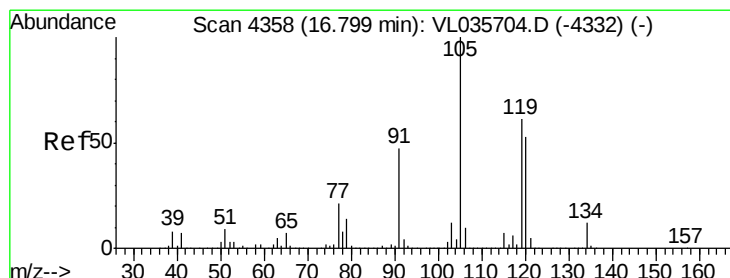
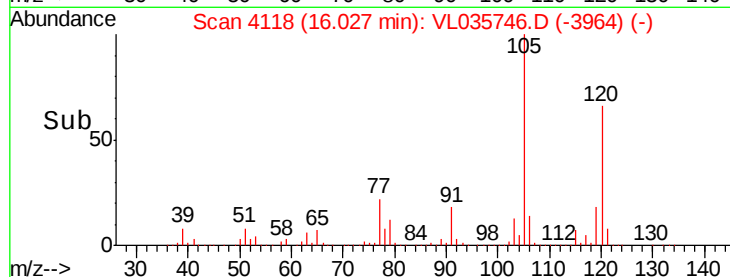
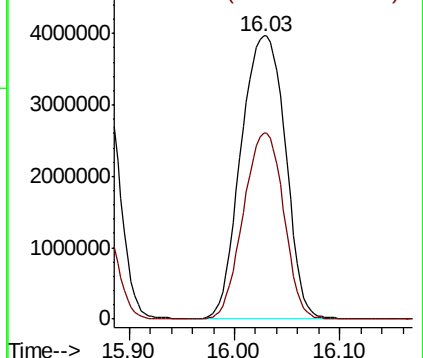
105 100

120 65.8 43.0 64.4#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 39.136 ppbv

RT: 16.80 min Scan# 4358

Delta R.T. -0.00 min

Lab File: VL035746.D

Acq: 8 Oct 2020 15:36

Tgt Ion:105 Resp:17544046

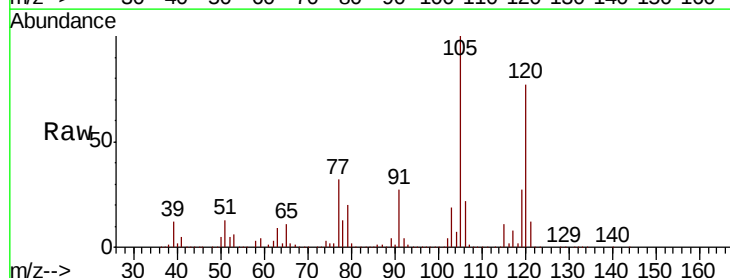
Ion Ratio Lower Upper

105 100

120 77.2 42.5 63.7#

91 27.2 37.7 56.5#

77 31.7 16.7 25.1#

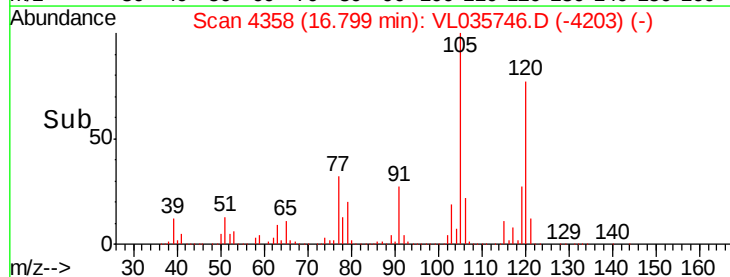
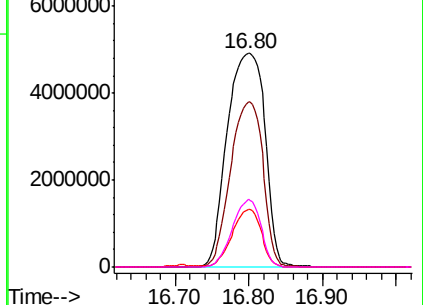


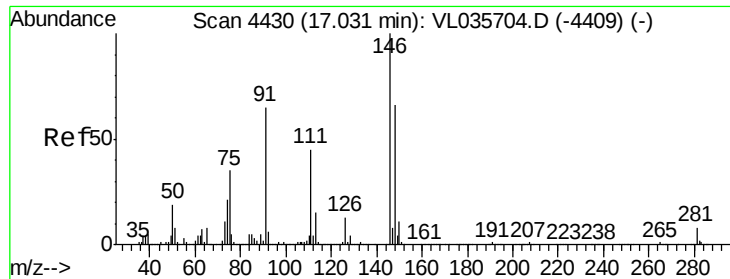
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#75

1,3-Dichlorobenzene

Concen: 0.048 ppbv

RT: 17.02 min Scan# 4428

Delta R.T. -0.01 min

Lab File: VL035746.D

Acq: 8 Oct 2020 15:36

Instrument :

MSVOA_L

ClientSampleId :

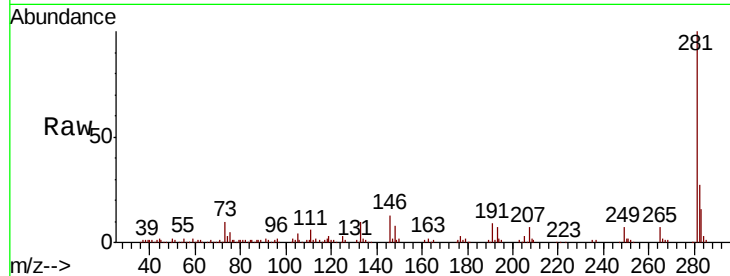
Tot Ion:146 Resp: 14636

Ion Ratio Lower Upper

146 100

111 100.1 22.4 67.0#

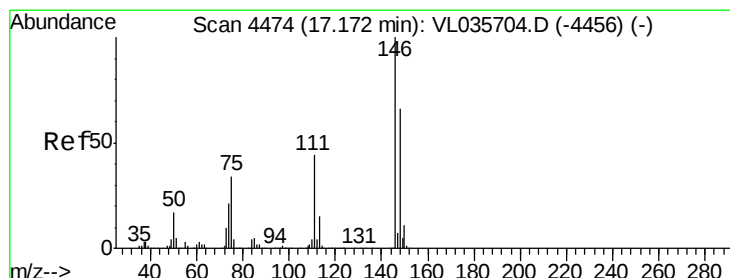
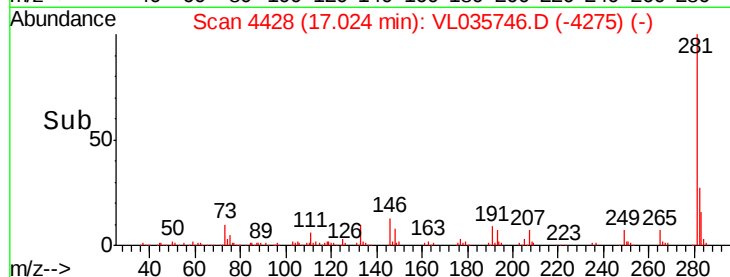
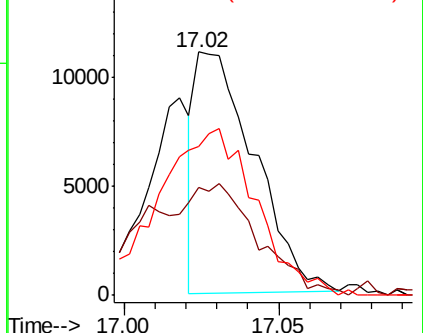
148 118.6 33.0 99.0#



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



#76

1,4-Dichlorobenzene

Concen: 0.676 ppbv

RT: 17.17 min Scan# 4472

Delta R.T. -0.01 min

Lab File: VL035746.D

Acq: 8 Oct 2020 15:36

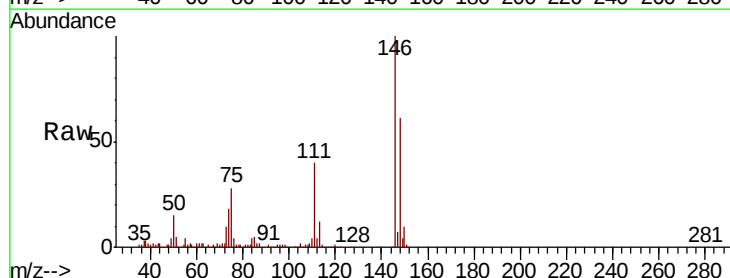
Tgt Ion:146 Resp: 197832

Ion Ratio Lower Upper

146 100

111 41.0 21.4 64.3

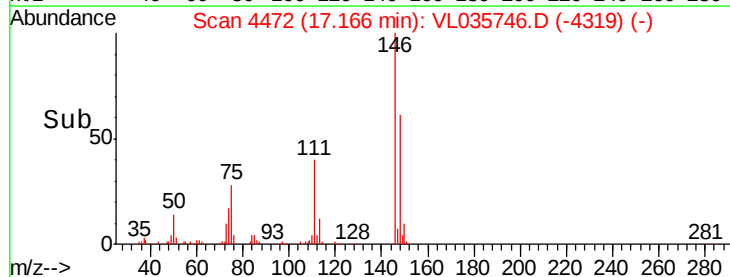
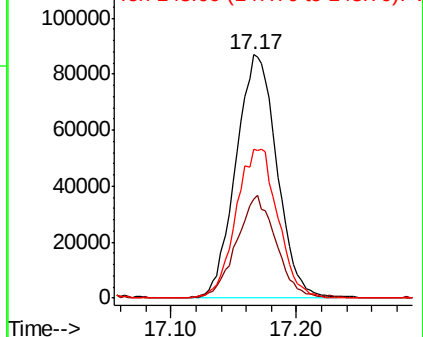
148 62.7 32.6 98.0

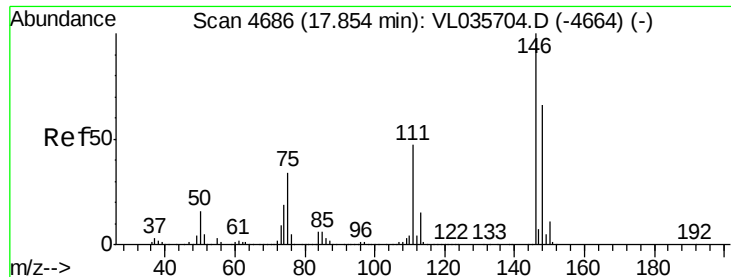


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 0.742 ppbv

RT: 17.85 min Scan# 4684

Delta R.T. -0.01 min

Lab File: VL035746.D

Acq: 8 Oct 2020 15:36

Instrument :

MSVOA_L

ClientSampleId :

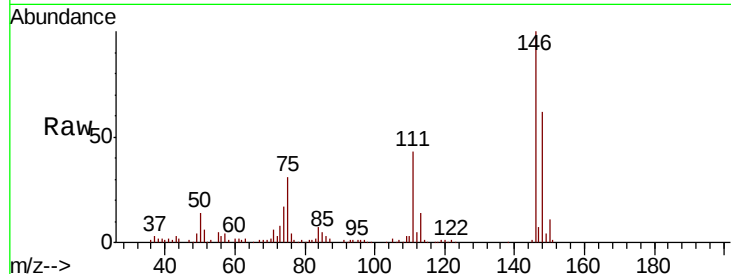
Tot Ion:146 Resp: 214466

Ion Ratio Lower Upper

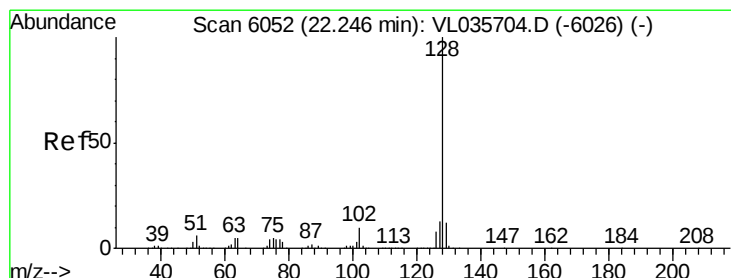
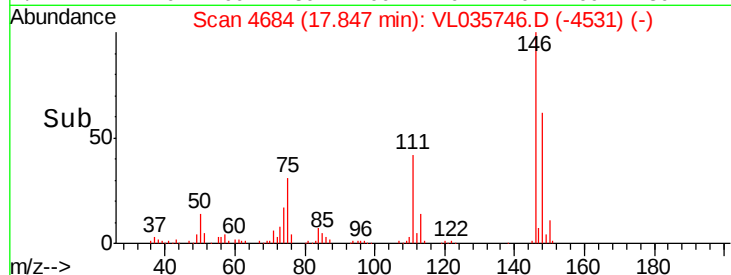
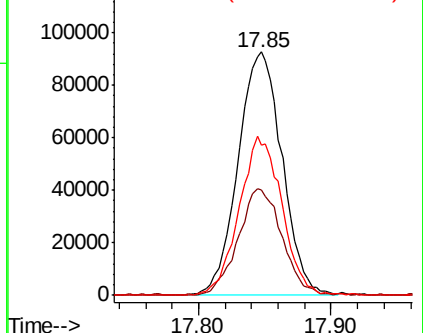
146 100

111 44.2 22.9 68.5

148 63.2 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



#79

Naphthalene

Concen: 0.549 ppbv

RT: 22.23 min Scan# 6048

Delta R.T. -0.01 min

Lab File: VL035746.D

Acq: 8 Oct 2020 15:36

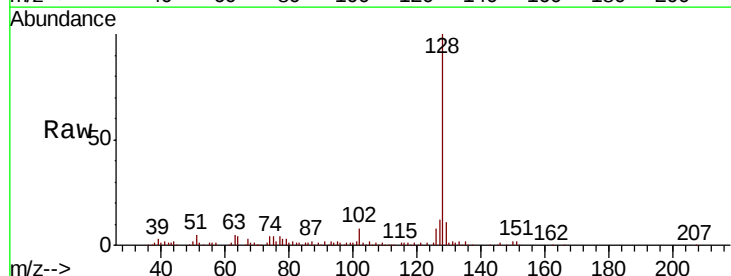
Tgt Ion:128 Resp: 234877

Ion Ratio Lower Upper

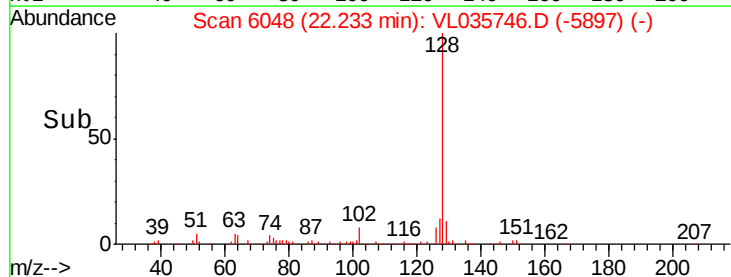
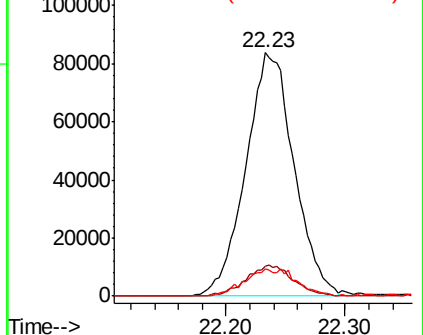
128 100

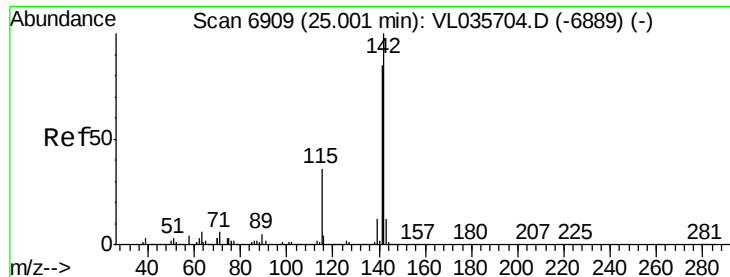
127 12.2 10.6 15.8

129 11.2 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: 0.157 ppbv

RT: 25.00 min Scan# 6908

Delta R.T. -0.00 min

Lab File: VL035746.D

Acq: 8 Oct 2020 15:36

Instrument :

MSVOA_L

ClientSampleId :

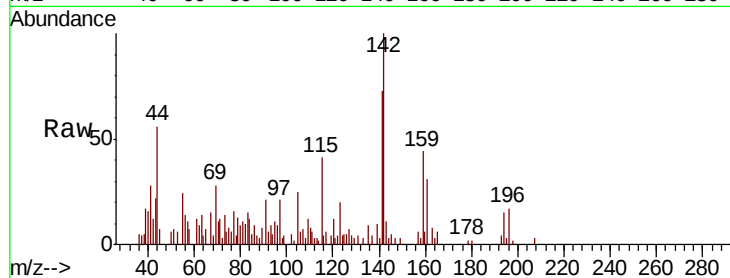
Tot Ion:142 Resp: 15853

Ion Ratio Lower Upper

142 100

141 97.1 68.2 102.4

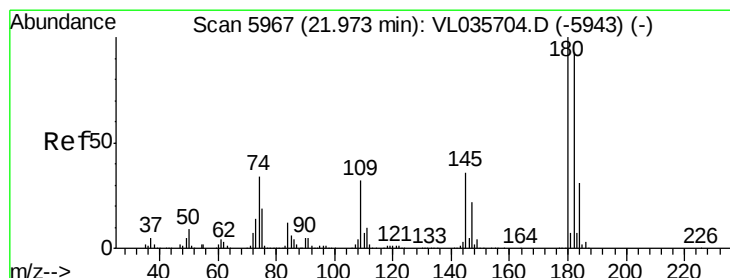
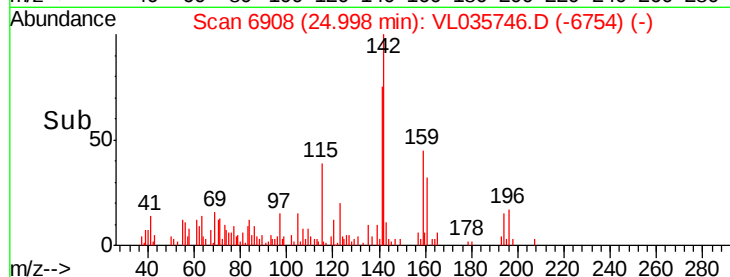
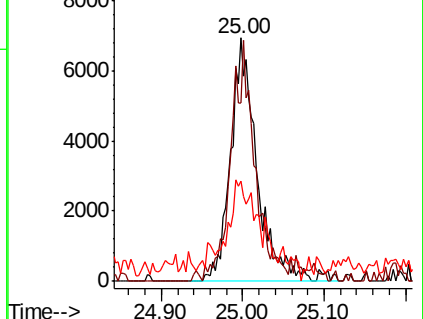
115 57.4 27.8 41.6#



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: 0.046 ppbv

RT: 21.96 min Scan# 5964

Delta R.T. -0.01 min

Lab File: VL035746.D

Acq: 8 Oct 2020 15:36

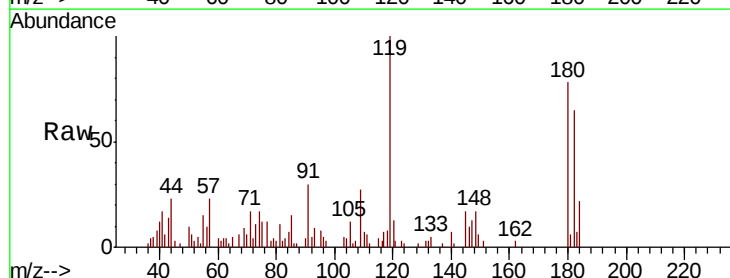
Tgt Ion:180 Resp: 10162

Ion Ratio Lower Upper

180 100

182 156.0 76.2 114.2#

184 48.4 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

