

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061621\
 Data File : VL037187.D
 Acq On : 17 Jun 2021 2:12
 Operator : SY/AP
 Sample : M2721-04
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jun 17 04:42:58 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jun 16 14:06:32 2021
 QLast Update : Wed Jun 16 14:06:32 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1517343	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	4483957	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	4001097	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	3160850	10.43	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	54112	0.205	ppbv	99
3) Chlorodifluoromethane	2.96	51	8383734	28.415	ppbv #	57
4) Chloromethane	3.14	50	63316	0.644	ppbv	94
9) Propene	3.20	41	1168134	12.383	ppbv	99
10) Heptane	8.12	43	78490	0.344	ppbv	98
11) Trichlorofluoromethane	3.95	101	53636	0.190	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.49	101	4836	0.024	ppbv #	1
13) Ethanol	3.61	45	2643020	181.111	ppbv	48
15) Acetone	3.84	43	5663314	33.098	ppbv	93
16) 1,3-Butadiene	3.31	39	12604	0.125	ppbv #	11
17) tert-Butyl alcohol	4.30	59	687820	4.349	ppbv	100
19) Isopropyl Alcohol	3.97	45	727107	7.016	ppbv #	1
20) Methylene Chloride	4.34	84	789855	7.711	ppbv	97
21) Allyl Chloride	4.36	41	7896	0.061	ppbv #	18
23) Vinyl Acetate	5.06	43	174592	0.712	ppbv #	3
25) Ethyl Acetate	5.67	43	6149497	16.601	ppbv	99
26) Hexane	5.68	57	2728304	14.573	ppbv	93
27) Carbon Disulfide	4.56	76	45524	0.248	ppbv #	91
30) Cyclohexane	7.13	84	434699	2.787	ppbv	86
31) cis-1,2-Dichloroethene	5.67	61	582462	3.386	ppbv #	23
34) 2-Butanone	5.24	43	908210	5.208	ppbv	98
35) Carbon Tetrachloride	7.01	117	8438	0.028	ppbv #	72
36) Benzene	6.89	78	57965	0.160	ppbv	100
37) 1,2-Dichloroethane	6.31	62	15916	0.076	ppbv #	90
39) 1,2-Dichloropropane	7.18	63	1086283	8.062	ppbv #	24
41) Tetrahydrofuran	6.05	42	78329	0.967	ppbv #	81
43) Methyl Methacrylate	8.02	69	4382	0.035	ppbv #	1
44) 2,2,4-Trimethylpentane	7.87	57	53426	0.088	ppbv #	1
50) 4-Methyl-2-Pentanone	8.74	43	11882	0.050	ppbv #	39
51) 2-Hexanone	10.06	43	50499	0.433	ppbv #	59
53) Toluene	9.81	91	1594489	3.681	ppbv	98
58) Ethyl Benzene	12.71	91	417340	0.758	ppbv	96
59) m/p-Xylene	12.97	91	1233214	2.642	ppbv	97
60) o-Xylene	13.69	91	522794	1.176	ppbv	99
61) Styrene	13.53	104	6715531	29.276	ppbv	96
62) Isopropylbenzene	14.66	105	127458	0.202	ppbv	99
64) n-propylbenzene	15.56	120	34926	0.221	ppbv #	1
65) tert-Butylbenzene	16.77	119	120445	0.215	ppbv #	65
66) Benzyl Chloride	16.81	91	1600	0.067	ppbv #	68
67) sec-Butylbenzene	17.30	105	89610	0.120	ppbv	96
69) p-Isopropyltoluene	17.65	119	115597	0.183	ppbv	94

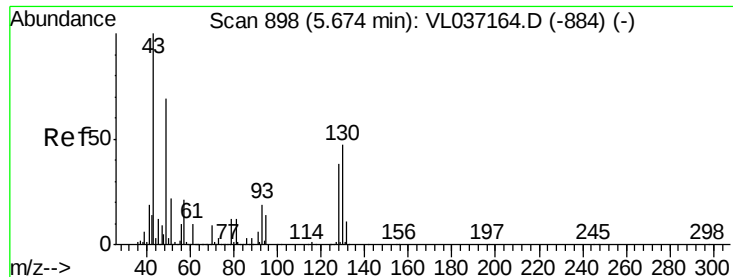
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061621\
 Data File : VL037187.D
 Acq On : 17 Jun 2021 2:12
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Quant Time: Jun 17 04:42:58 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL061621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jun 16 14:06:32 2021
 QLast Update : Wed Jun 16 14:06:32 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) n-Butylbenzene	18.56	91	153895	0.263	ppbv #	53
71) 2-Chlorotoluene	15.78	91	29638	0.067	ppbv	85
72) 4-Ethyltoluene	15.84	105	289983	0.574	ppbv #	95
73) 1,3,5-Trimethylbenzene	16.00	105	338679	0.694	ppbv	90
74) 1,2,4-Trimethylbenzene	16.76	105	1014864	2.018	ppbv #	73
76) 1,4-Dichlorobenzene	17.14	146	33946	0.111	ppbv #	1
79) Naphthalene	22.21	128	16891	0.040	ppbv	95

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. -0.01 min

Lab File: VL037187.D

Acq: 17 Jun 2021 2:12

Instrument :

MSVOA_L

ClientSampleId :

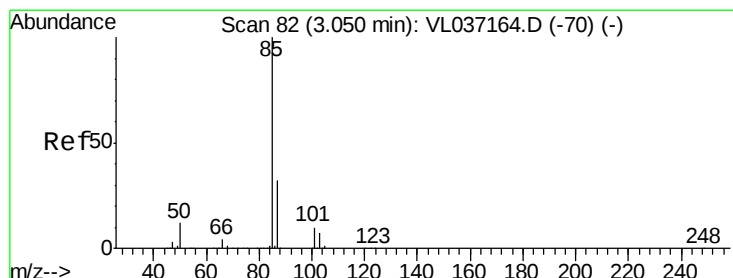
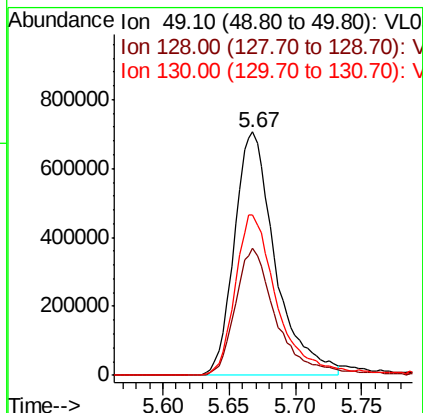
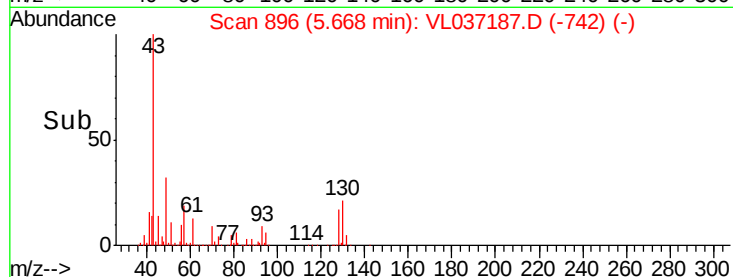
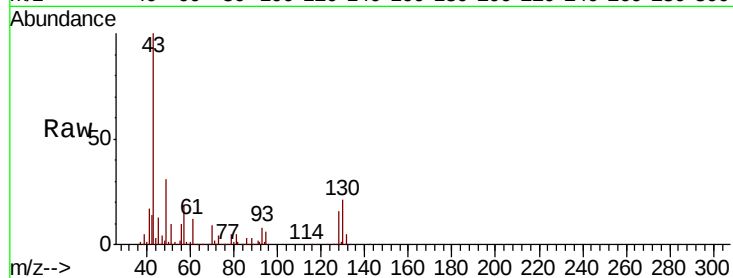
Tot Ion: 49 Resp: 1517343

Ion Ratio Lower Upper

49 100

128 54.1 29.3 88.0

130 69.4 35.9 107.8



#2

Dichlorodifluoromethane

Concen: 0.205 ppbv

RT: 3.04 min Scan# 80

Delta R.T. -0.01 min

Lab File: VL037187.D

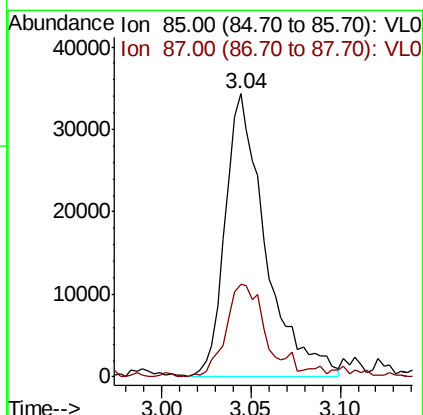
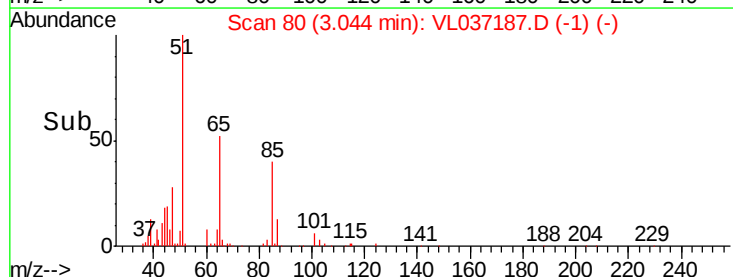
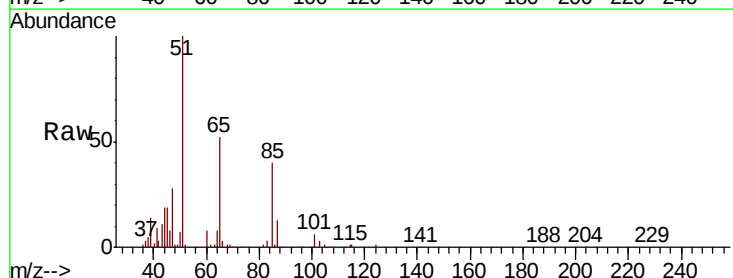
Acq: 17 Jun 2021 2:12

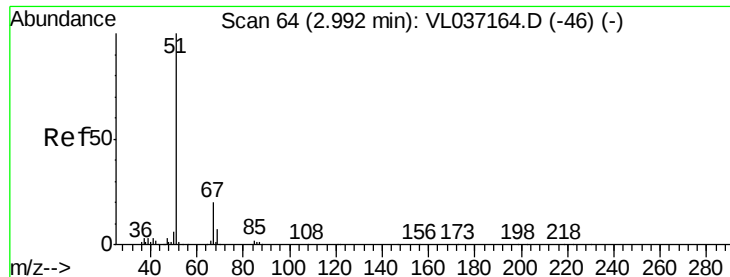
Tgt Ion: 85 Resp: 54112

Ion Ratio Lower Upper

85 100

87 32.6 25.8 38.6





#3

Chlorodifluoromethane

Concen: 28.415 ppbv

RT: 2.96 min Scan# 54

Delta R.T. -0.03 min

Lab File: VL037187.D

Acq: 17 Jun 2021 2:12

Instrument :

MSVOA_L

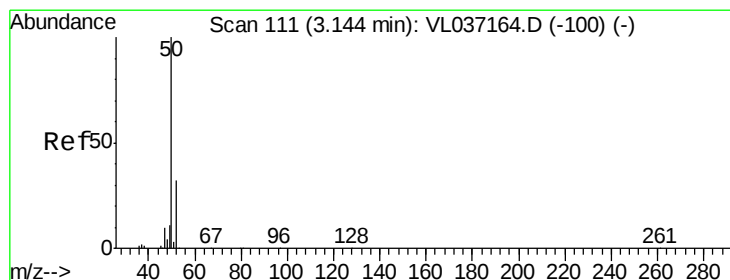
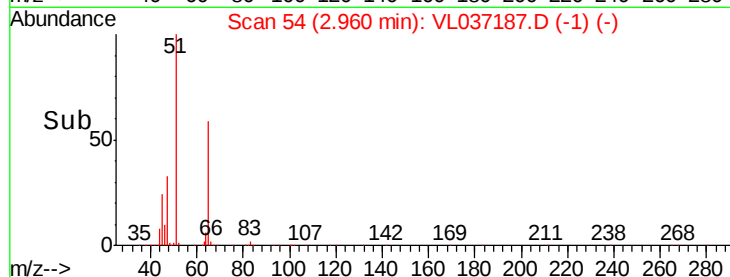
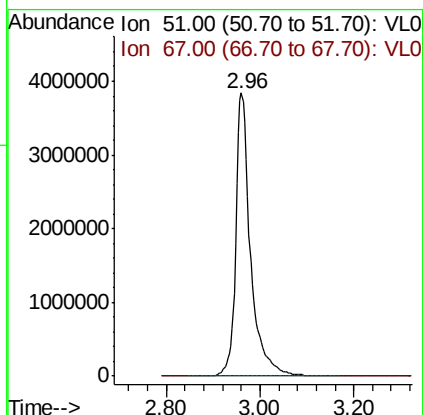
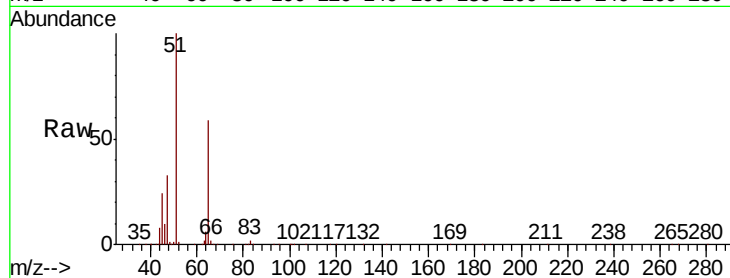
ClientSampleId :

Tot Ion: 51 Resp: 8383734

Ion Ratio Lower Upper

51 100

67 0.2 15.8 23.6#



#4

Chloromethane

Concen: 0.644 ppbv

RT: 3.14 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL037187.D

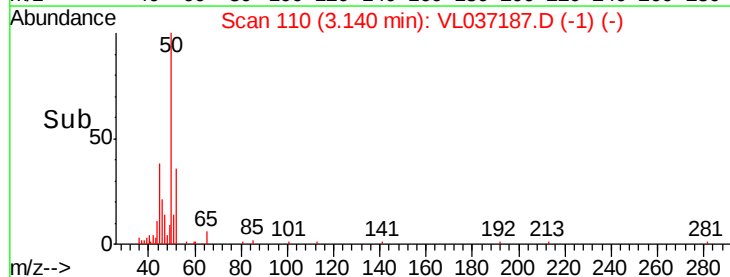
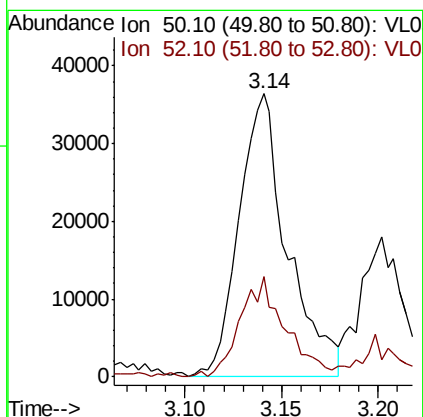
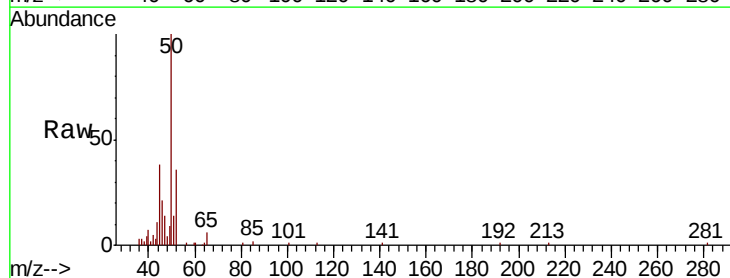
Acq: 17 Jun 2021 2:12

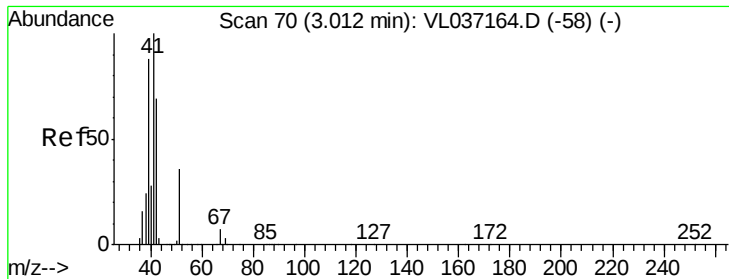
Tgt Ion: 50 Resp: 63316

Ion Ratio Lower Upper

50 100

52 35.6 25.8 38.8





#9

Propene

Concen: 12.383 ppbv

RT: 3.20 min Scan# 129

Delta R.T. 0.19 min

Lab File: VL037187.D

Acq: 17 Jun 2021 2:12

Instrument :

MSVOA_L

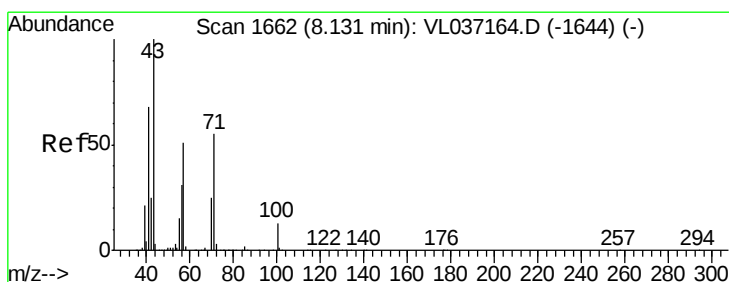
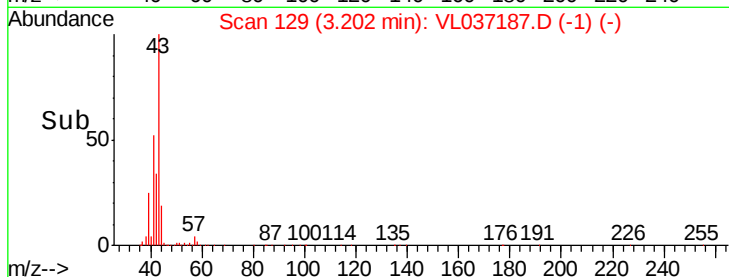
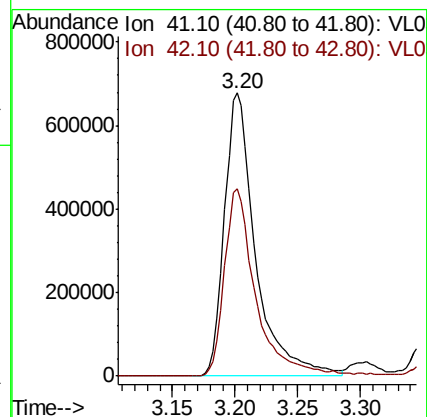
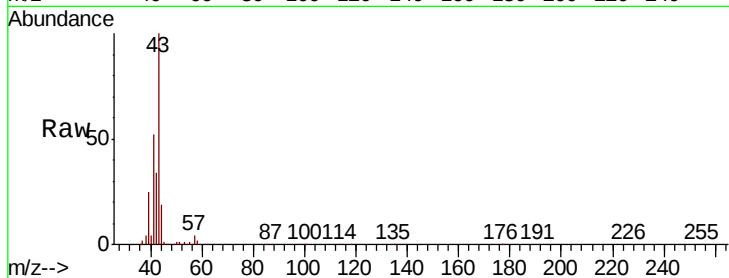
ClientSampleId :

Tot Ion: 41 Resp: 1168134

Ion Ratio Lower Upper

41 100

42 67.0 54.5 81.7



#10

Heptane

Concen: 0.344 ppbv

RT: 8.12 min Scan# 1659

Delta R.T. -0.01 min

Lab File: VL037187.D

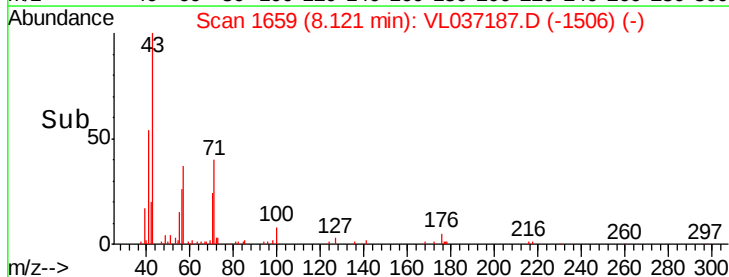
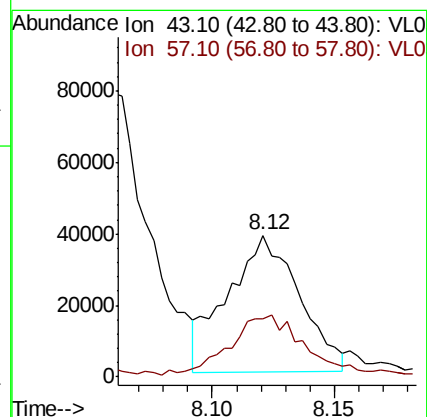
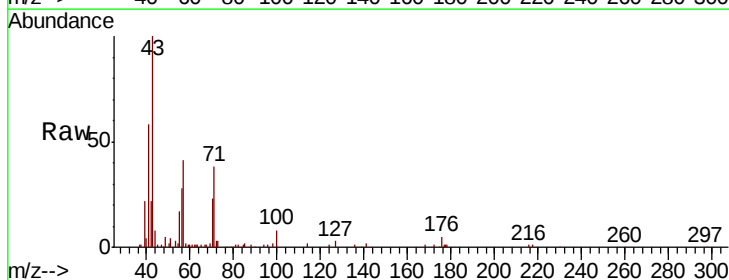
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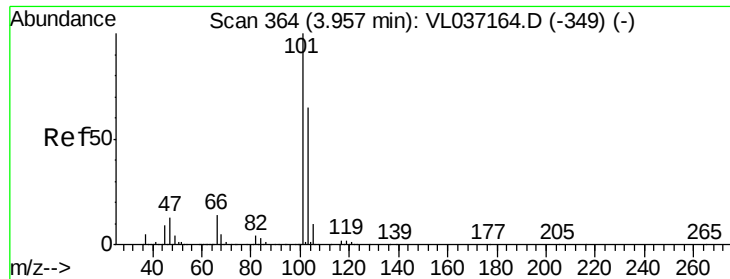
Tgt Ion: 43 Resp: 78490

Ion Ratio Lower Upper

43 100

57 49.3 40.6 61.0

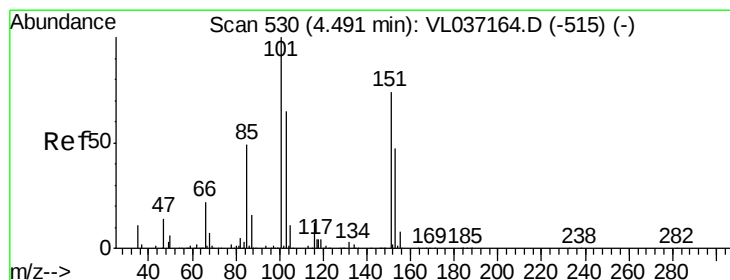
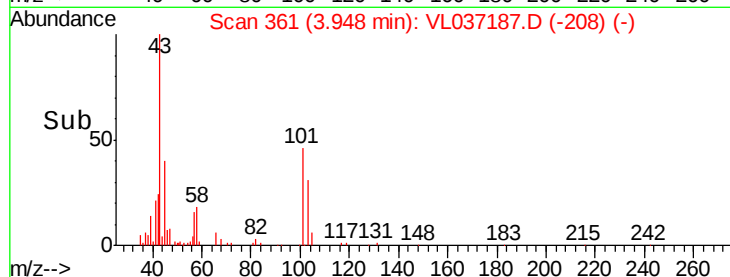
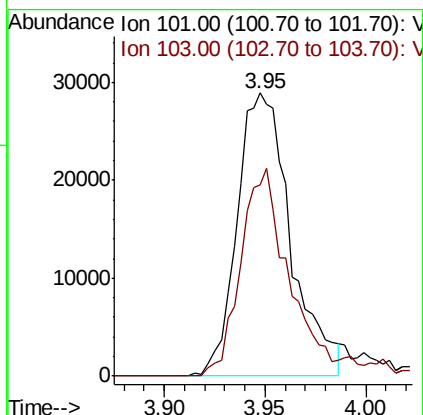
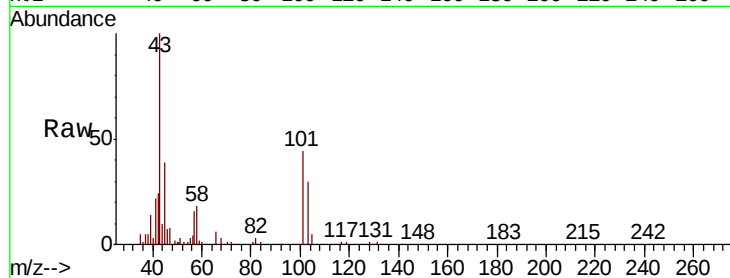




#11
 Trichlorofluoromethane
 Concen: 0.190 ppbv
 RT: 3.95 min Scan# 361
 Delta R.T. -0.01 min
 Lab File: VL037187.D
 Acq: 17 Jun 2021 2:12

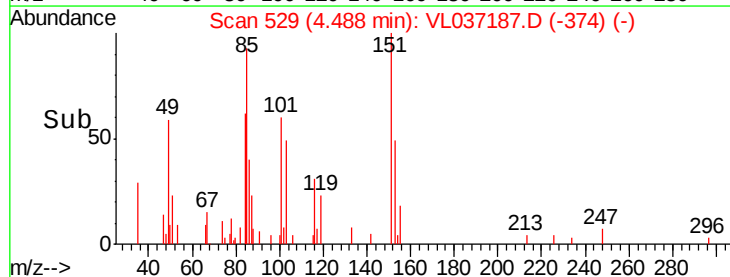
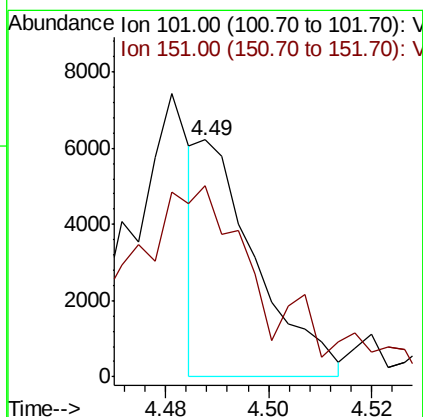
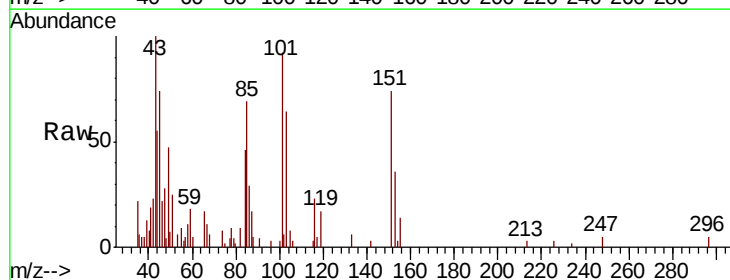
Instrument :
 MSVOA_L
 ClientSampleId :

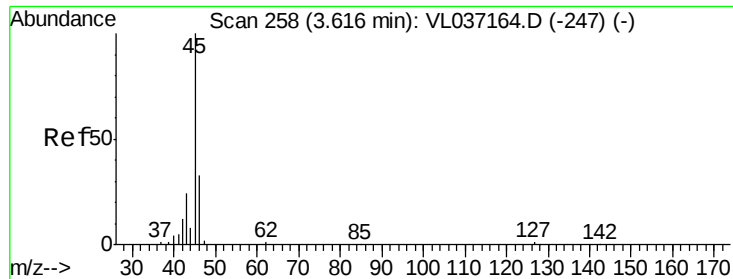
Tot Ion:101 Resp: 53636
 Ion Ratio Lower Upper
 101 100
 103 67.6 52.2 78.4



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.024 ppbv
 RT: 4.49 min Scan# 529
 Delta R.T. -0.00 min
 Lab File: VL037187.D
 Acq: 17 Jun 2021 2:12

Tgt Ion:101 Resp: 4836
 Ion Ratio Lower Upper
 101 100
 151 204.9 59.1 88.7#





#13

Ethanol

Concen: 181.111 ppbv

RT: 3.61 min Scan# 255

Delta R.T. -0.01 min

Lab File: VL037187.D

Acq: 17 Jun 2021 2:12

Instrument :

MSVOA_L

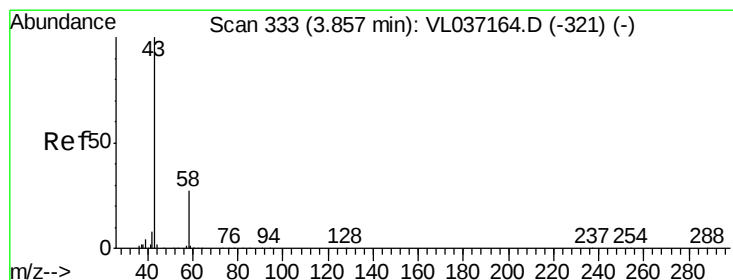
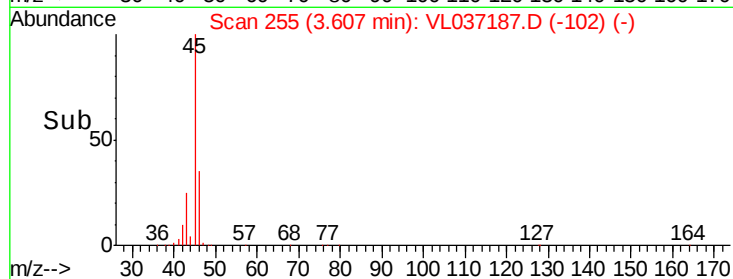
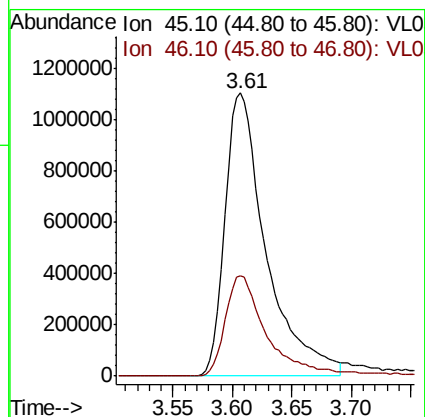
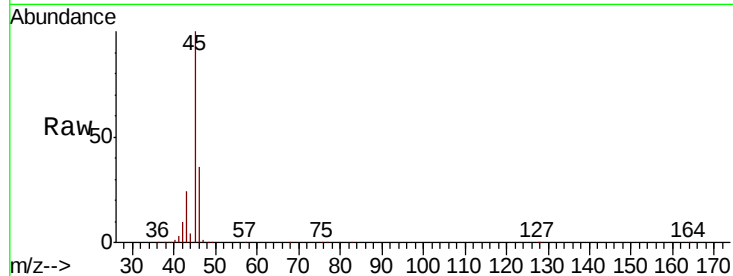
ClientSampleId :

Tot Ion: 45 Resp: 2643020

Ion Ratio Lower Upper

45 100

46 37.8 34.2 137.0



#15

Acetone

Concen: 33.098 ppbv

RT: 3.84 min Scan# 329

Delta R.T. -0.01 min

Lab File: VL037187.D

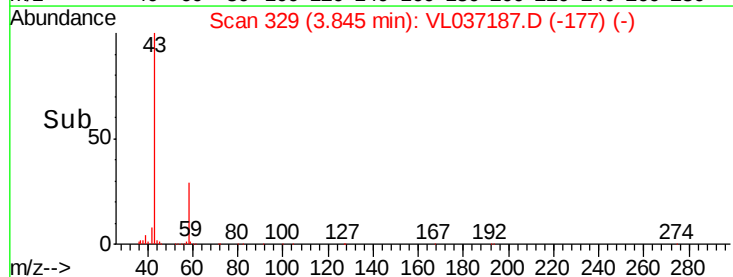
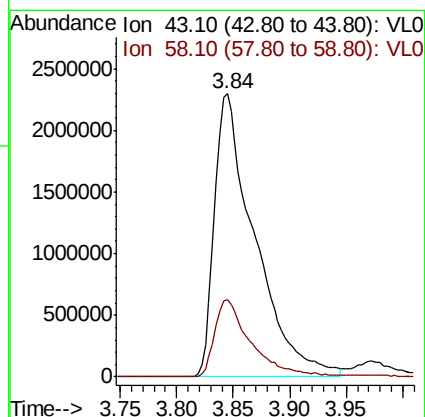
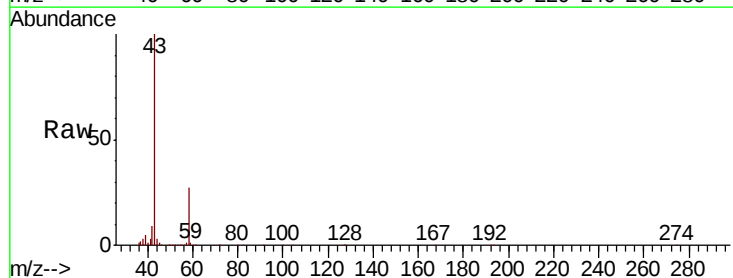
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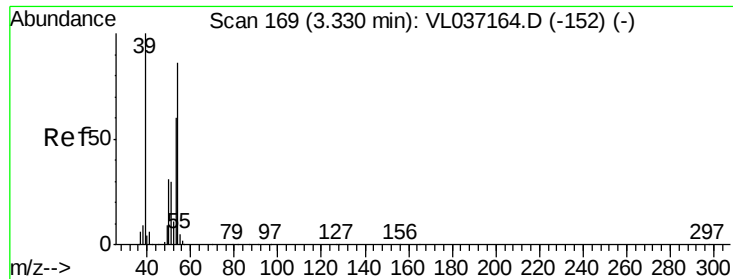
Tgt Ion: 43 Resp: 5663314

Ion Ratio Lower Upper

43 100

58 25.8 23.7 35.5

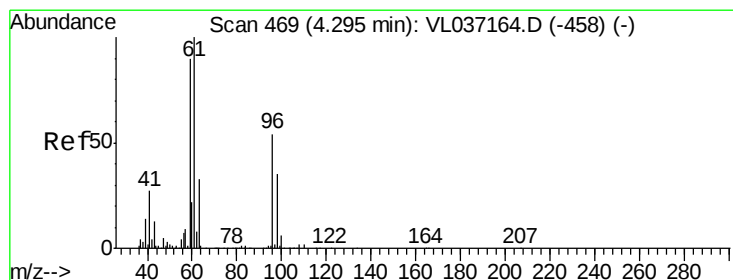
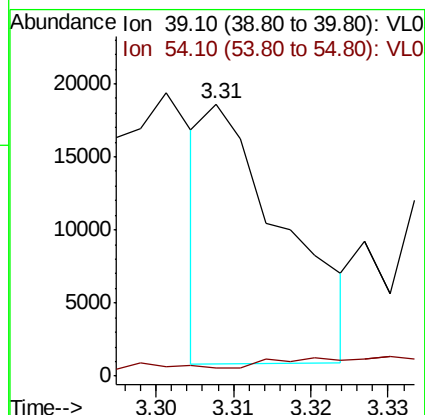
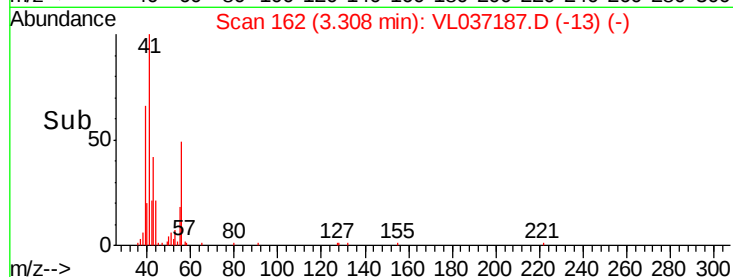
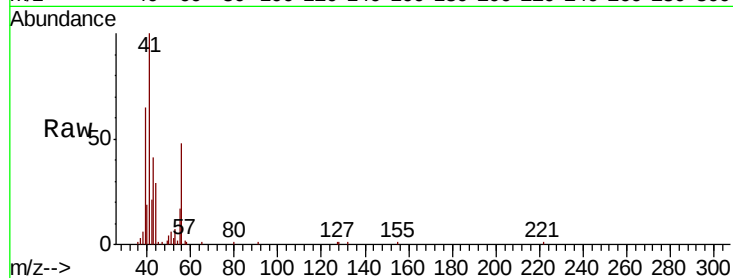




#16
1,3-Butadiene
Concen: 0.125 ppbv
RT: 3.31 min Scan# 162
Delta R.T. -0.02 min
Lab File: VL037187.D
Acq: 17 Jun 2021 2:12

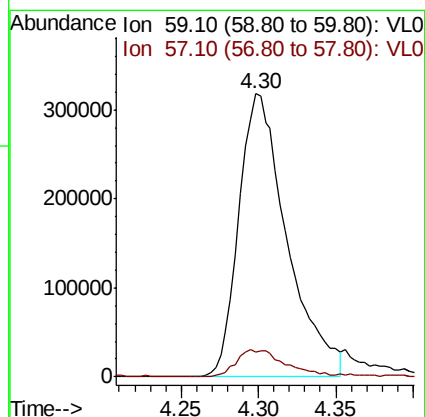
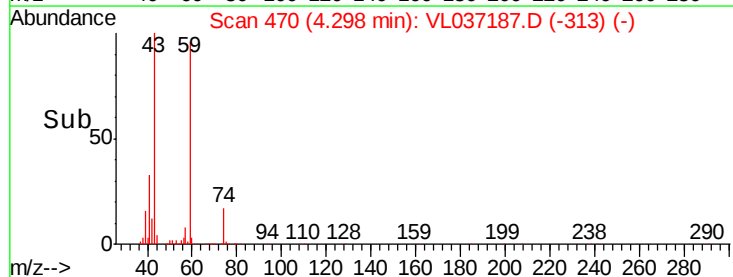
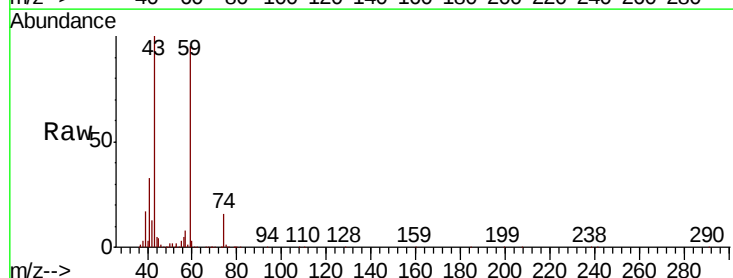
Instrument :
MSVOA_L
ClientSampled :

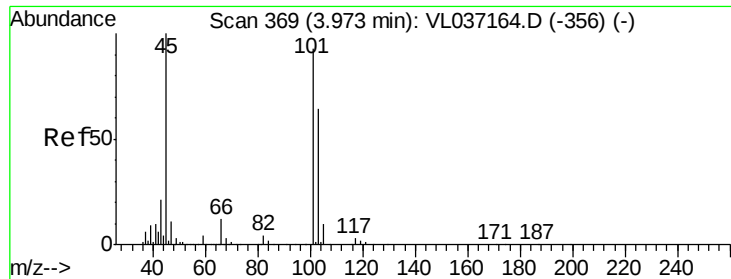
Tot Ion: 39 Resp: 12604
Ion Ratio Lower Upper
39 100
54 0.0 61.2 91.8#



#17
tert-Butyl alcohol
Concen: 4.349 ppbv
RT: 4.30 min Scan# 470
Delta R.T. 0.00 min
Lab File: VL037187.D
Acq: 17 Jun 2021 2:12

Tgt Ion: 59 Resp: 687820
Ion Ratio Lower Upper
59 100
57 10.9 8.8 13.2



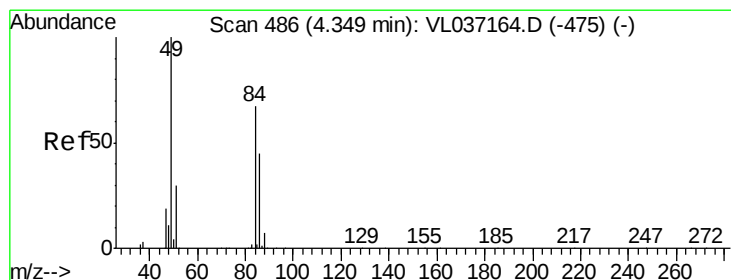
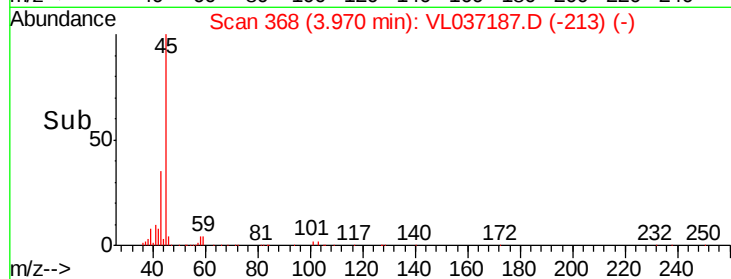
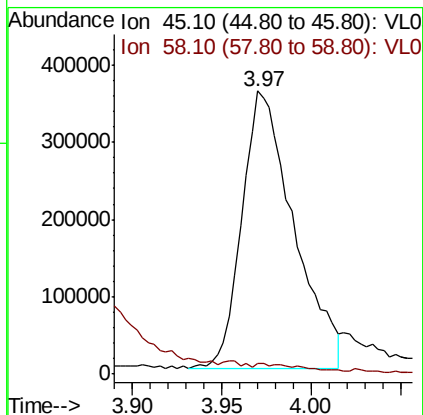
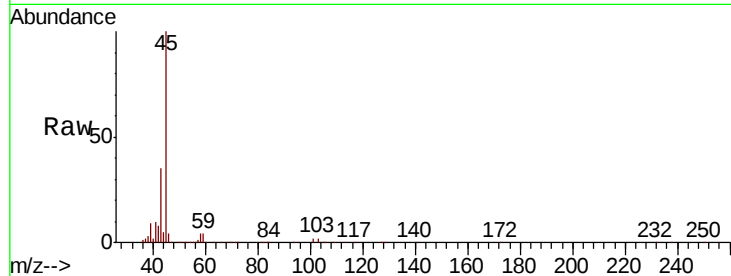


#19

Isopropyl Alcohol
 Concen: 7.016 ppbv
 RT: 3.97 min Scan# 368
 Delta R.T. -0.00 min
 Lab File: VL037187.D
 Acq: 17 Jun 2021 2:12

Instrument :
 MSVOA_L
 ClientSampleId :

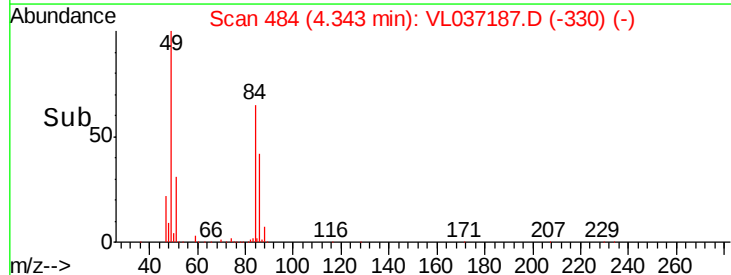
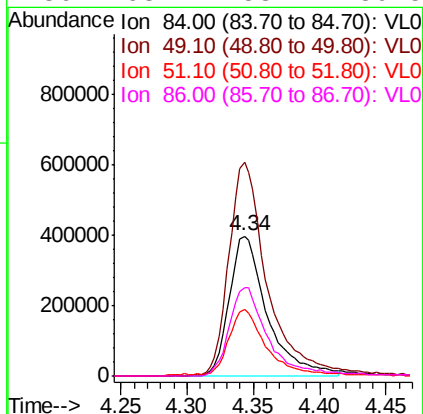
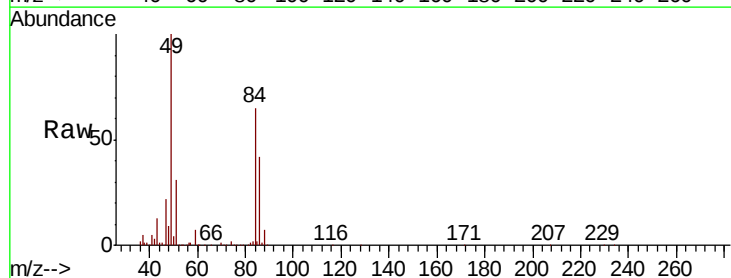
Tot Ion: 45 Resp: 727107
 Ion Ratio Lower Upper
 45 100
 58 201.1 2.4 3.6#

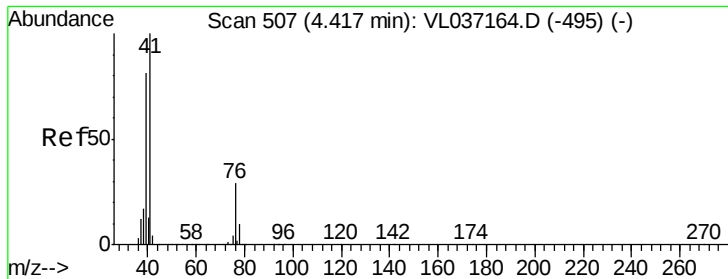


#20

Methylene Chloride
 Concen: 7.711 ppbv
 RT: 4.34 min Scan# 484
 Delta R.T. -0.01 min
 Lab File: VL037187.D
 Acq: 17 Jun 2021 2:12

Tgt Ion: 84 Resp: 789855
 Ion Ratio Lower Upper
 84 100
 49 152.5 119.7 179.5
 51 46.7 36.1 54.1
 86 63.7 53.7 80.5





#21

Allvl Chloride

Concen: 0.061 ppbv

RT: 4.36 min Scan# 490

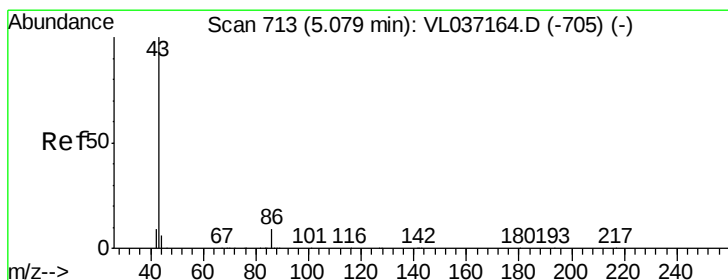
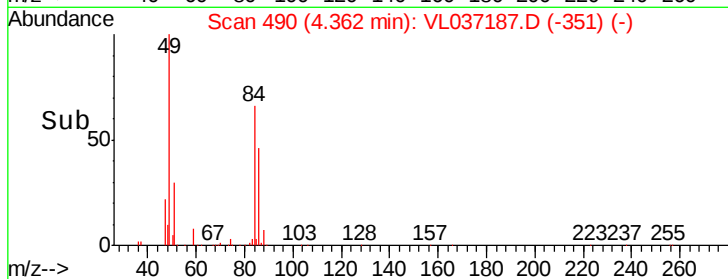
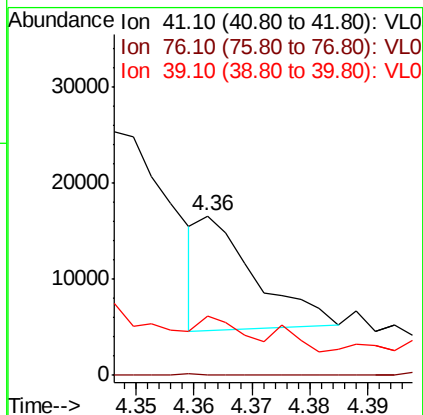
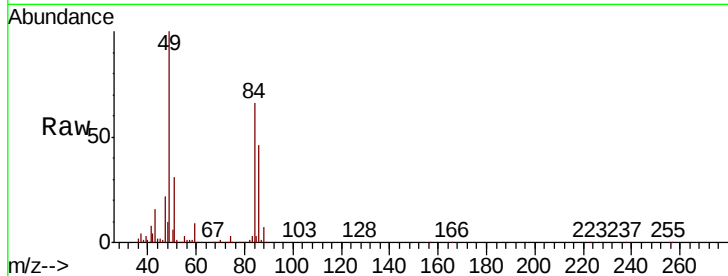
Delta R.T. -0.05 min

Lab File: VL037187.D

Acq: 17 Jun 2021 2:12

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:	41	Resp:	7896
Ion	Ratio	Lower	Upper
41	100		
76	0.0	24.6	37.0#
39	0.0	65.4	98.0#



#23

Vinyl Acetate

Concen: 0.712 ppbv

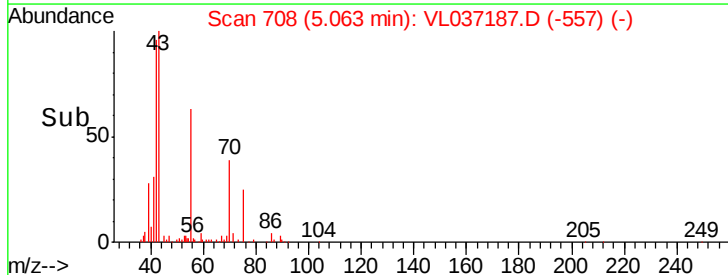
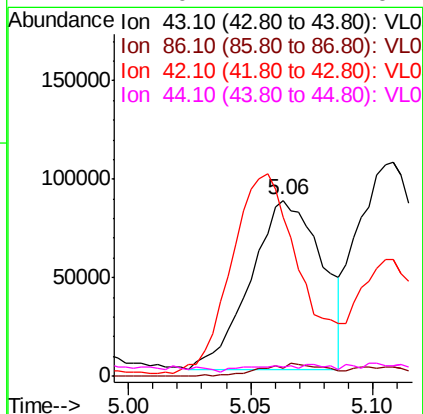
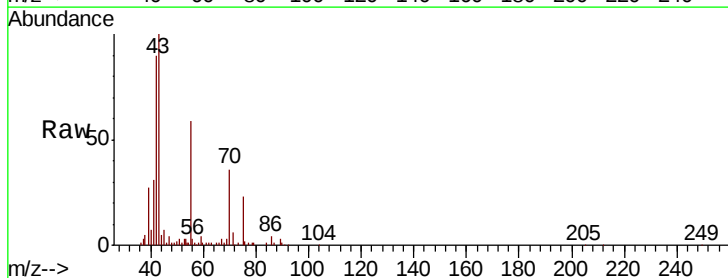
RT: 5.06 min Scan# 708

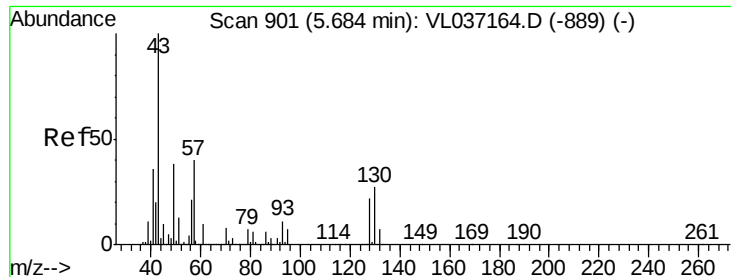
Delta R.T. -0.02 min

Lab File: VL037187.D

Acq: 17 Jun 2021 2:12

Tgt Ion:	43	Resp:	174592
Ion	Ratio	Lower	Upper
43	100		
86	4.6	5.8	8.8#
42	87.2	8.2	12.2#
44	2.0	4.2	6.4#



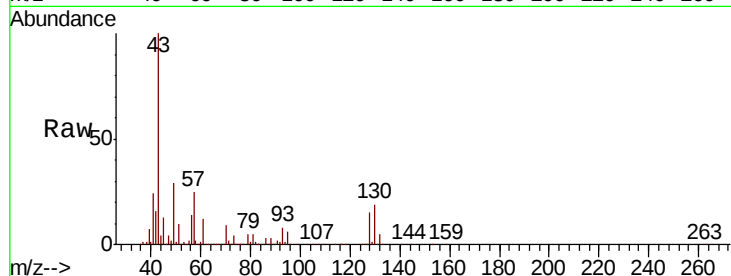


#25
Ethyl Acetate
Concen: 16.601 ppbv
RT: 5.67 min Scan# 897
Delta R.T. -0.01 min
Lab File: VL037187.D
Acq: 17 Jun 2021 2:12

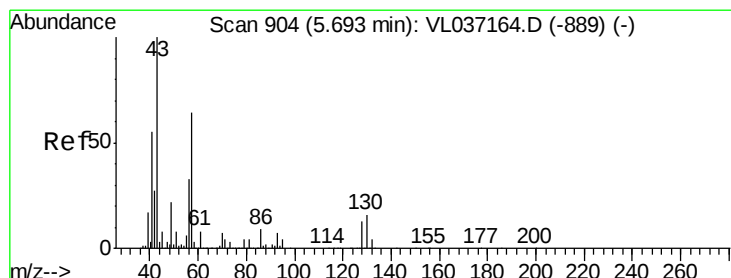
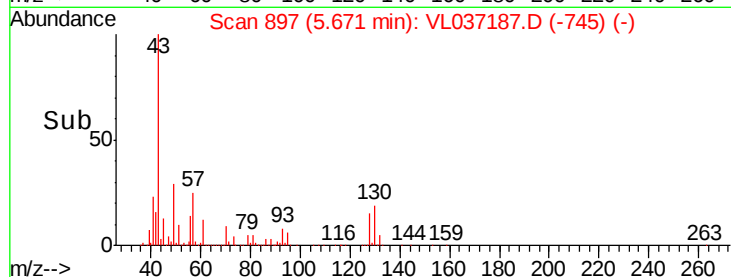
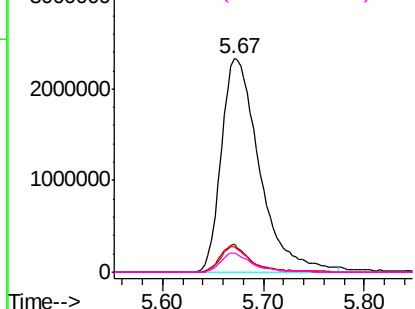
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 6149497

Ion	Ratio	Lower	Upper
43	100		
45	10.5	8.0	12.0
61	9.8	8.1	12.1
70	7.8	5.5	8.3



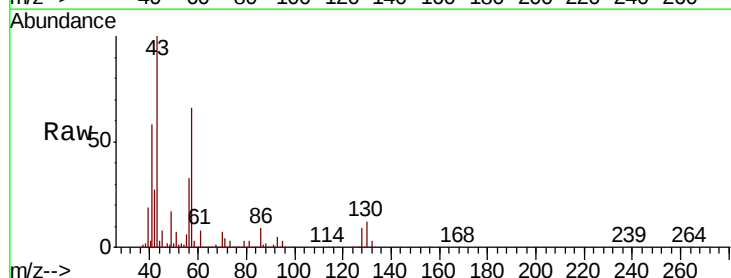
Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0



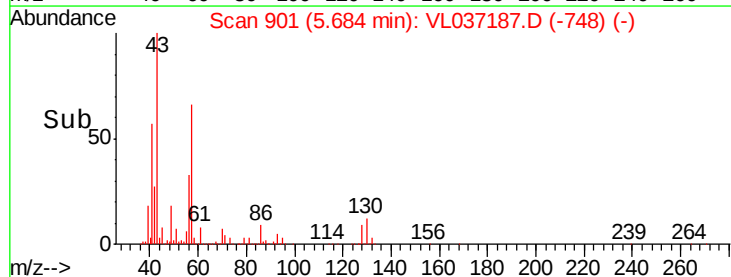
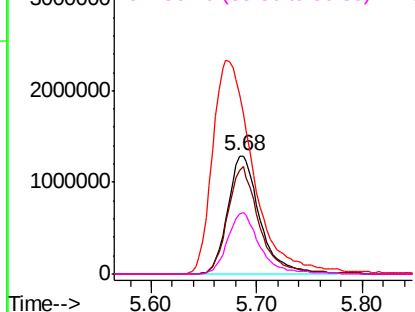
#26
Hexane
Concen: 14.573 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.01 min
Lab File: VL037187.D
Acq: 17 Jun 2021 2:12

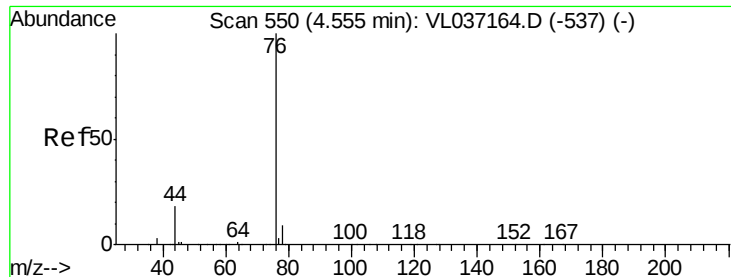
Tgt Ion: 57 Resp: 2728304

Ion	Ratio	Lower	Upper
57	100		
41	90.1	73.5	110.3
43	230.3	170.7	256.1
56	52.3	42.4	63.6



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: 0.248 ppbv

RT: 4.56 min Scan# 550

Delta R.T. 0.00 min

Lab File: VL037187.D

Acq: 17 Jun 2021 2:12

Instrument :

MSVOA_L

ClientSampleId :

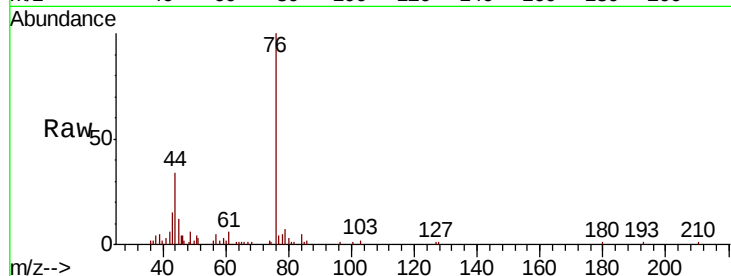
Tot Ion: 76 Resp: 45524

Ion Ratio Lower Upper

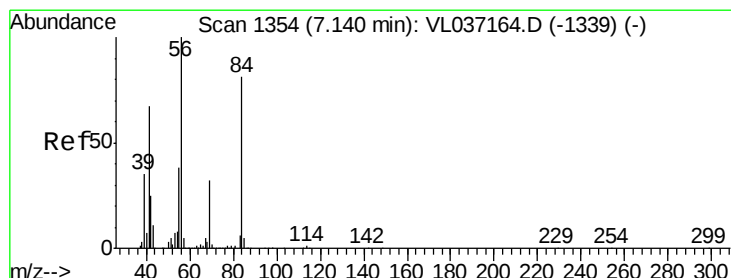
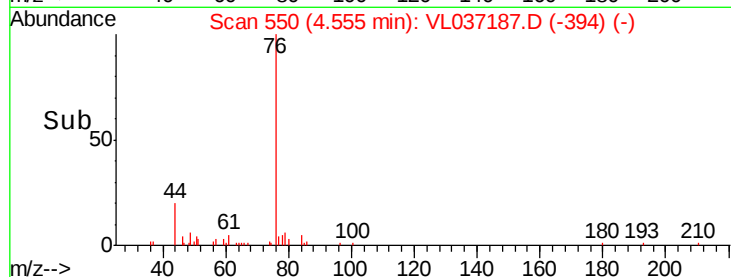
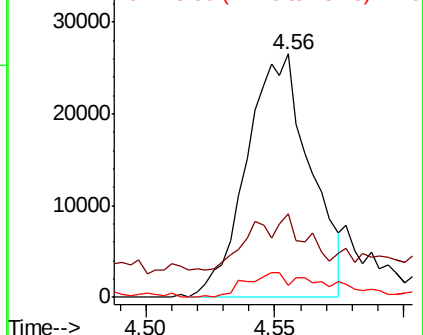
76 100

44 22.9 15.4 23.2

78 13.7 8.0 12.0#



Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#30

Cyclohexane

Concen: 2.787 ppbv

RT: 7.13 min Scan# 1350

Delta R.T. -0.01 min

Lab File: VL037187.D

Acq: 17 Jun 2021 2:12

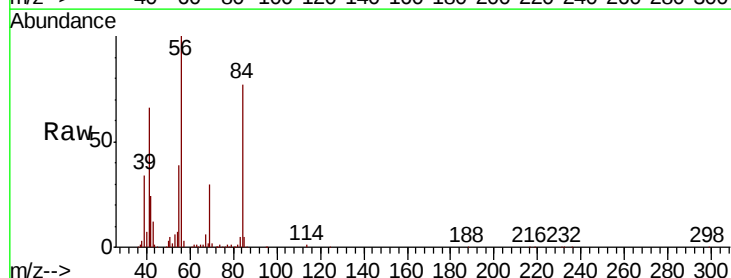
Tgt Ion: 84 Resp: 434699

Ion Ratio Lower Upper

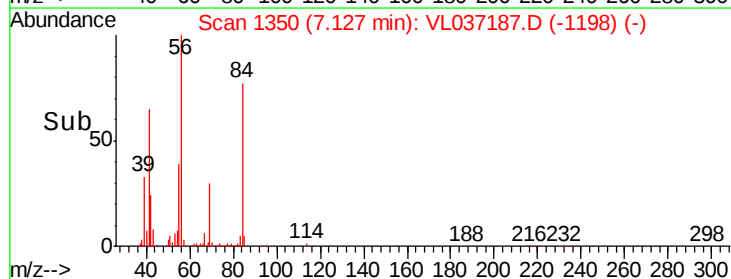
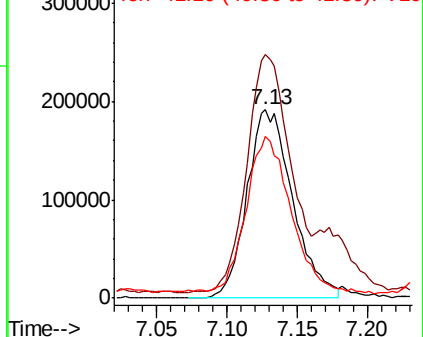
84 100

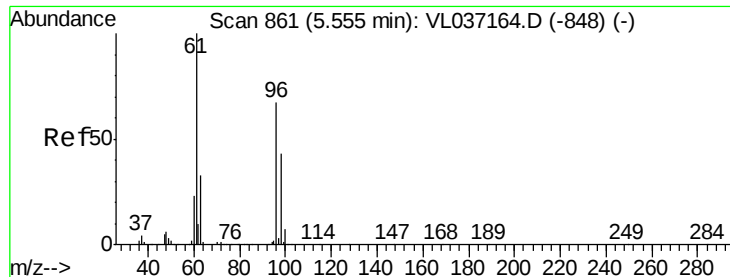
56 157.9 107.7 161.5

41 90.2 69.0 103.6



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



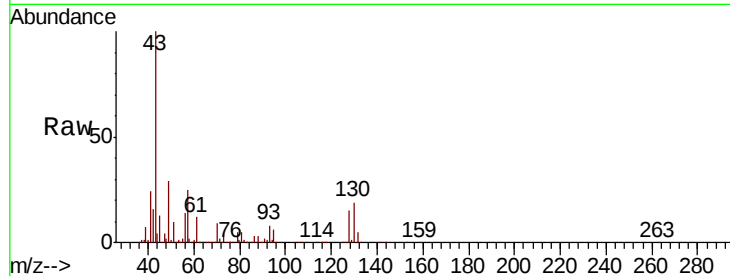


#31

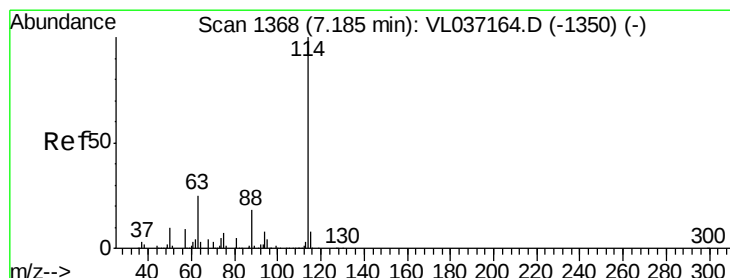
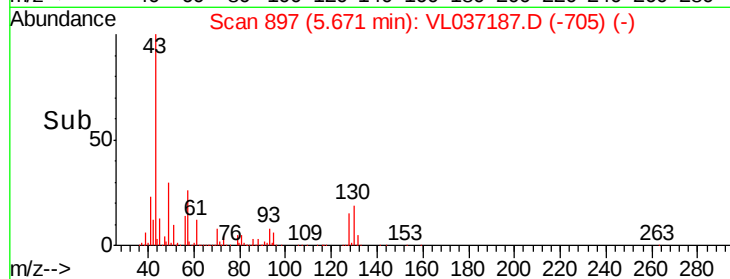
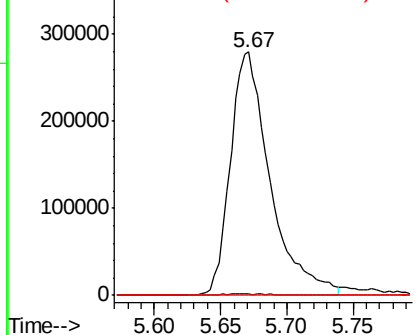
cis-1,2-Dichloroethene
 Concen: 3.386 ppbv
 RT: 5.67 min Scan# 897
 Delta R.T. 0.12 min
 Lab File: VL037187.D
 Acq: 17 Jun 2021 2:12

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
61	100		
96	0.7	53.6	80.4#
98	0.1	34.7	52.1#



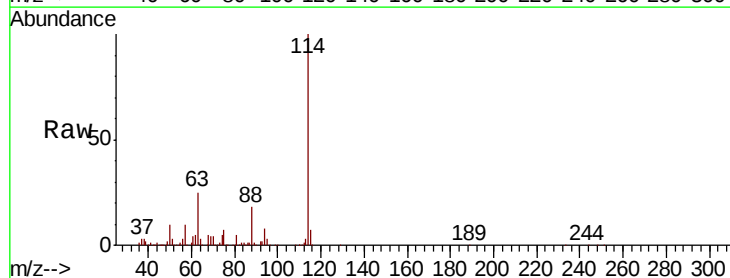
Abundance Ion 61.10 (60.80 to 61.80): VL0
 Ion 96.00 (95.70 to 96.70): VL0
 Ion 98.00 (97.70 to 98.70): VL0



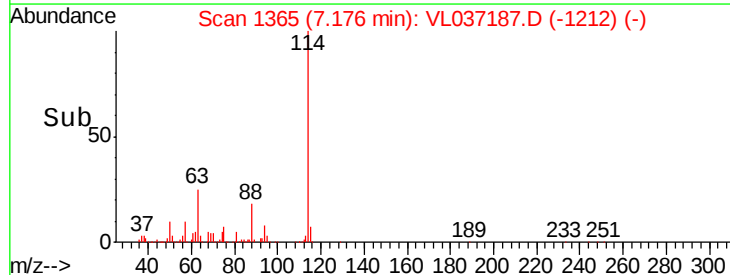
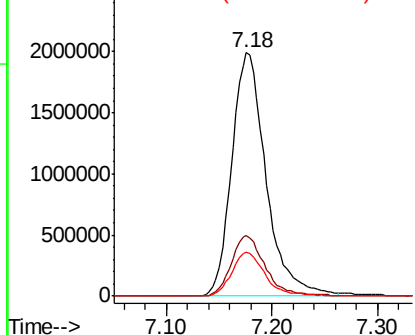
#33

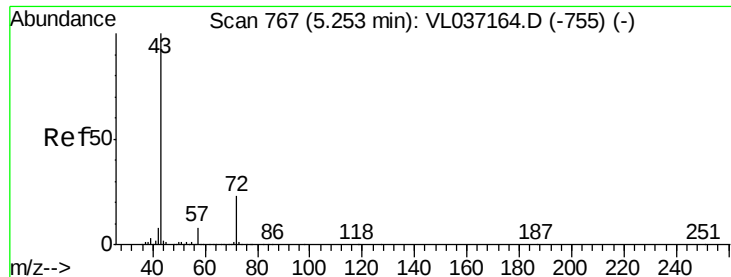
1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. -0.01 min
 Lab File: VL037187.D
 Acq: 17 Jun 2021 2:12

Tgt Ion	Ratio	Lower	Upper
114	100		
63	24.9	19.6	29.4
88	17.8	14.2	21.2



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

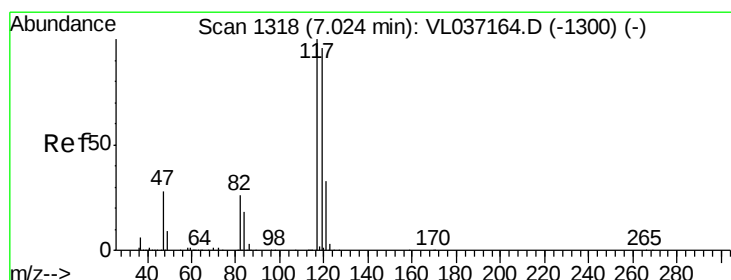
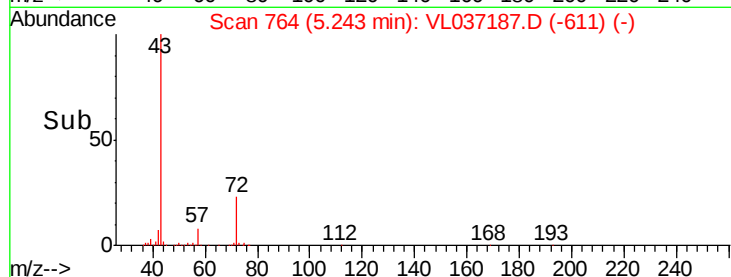
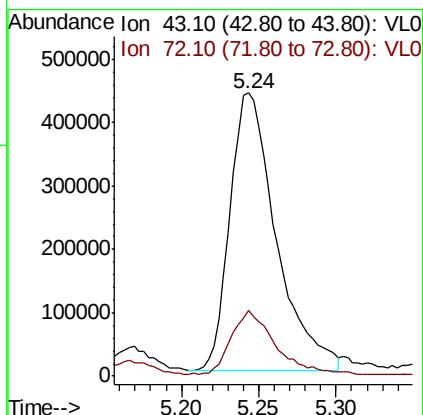
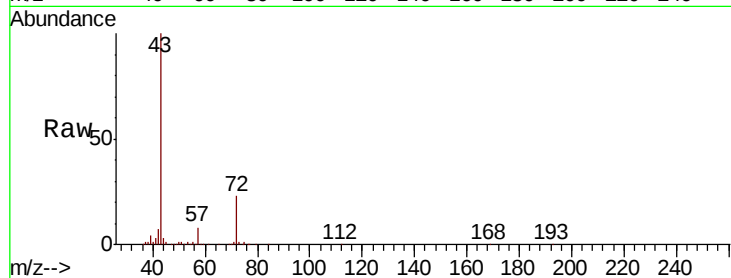




#34
2-Butanone
Concen: 5.208 ppbv
RT: 5.24 min Scan# 764
Delta R.T. -0.01 min
Lab File: VL037187.D
Acq: 17 Jun 2021 2:12

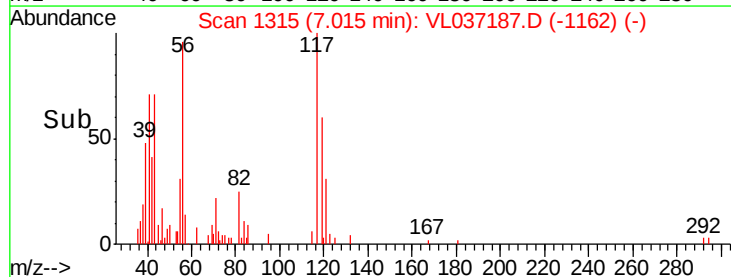
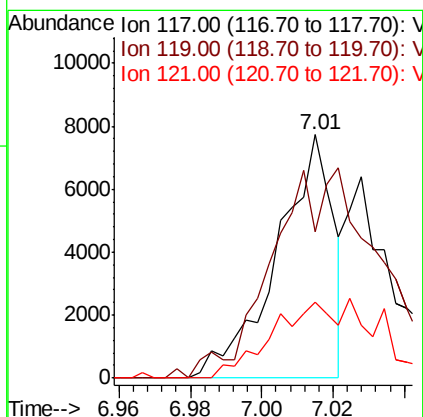
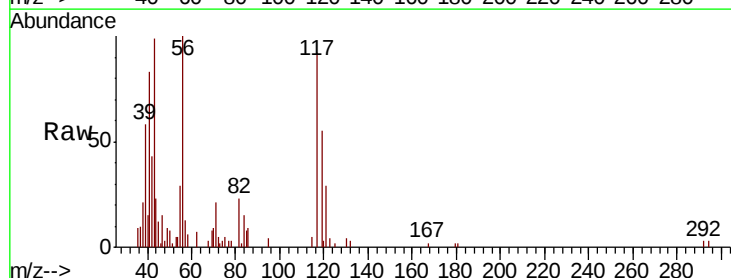
Instrument :
MSVOA_L
ClientSampled :

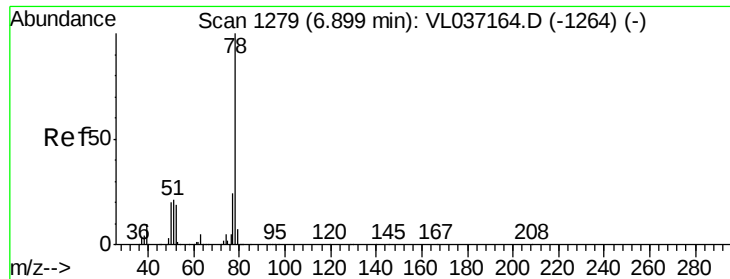
Tot Ion: 43 Resp: 908210
Ion Ratio Lower Upper
43 100
72 22.8 18.9 28.3



#35
Carbon Tetrachloride
Concen: 0.028 ppbv
RT: 7.01 min Scan# 1315
Delta R.T. -0.01 min
Lab File: VL037187.D
Acq: 17 Jun 2021 2:12

Tgt Ion: 117 Resp: 8438
Ion Ratio Lower Upper
117 100
119 60.3 76.6 114.8#
121 31.0 26.4 39.6

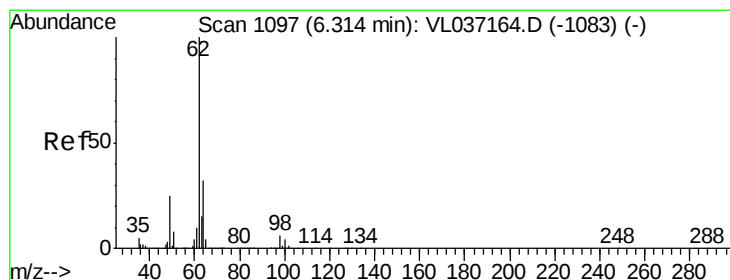
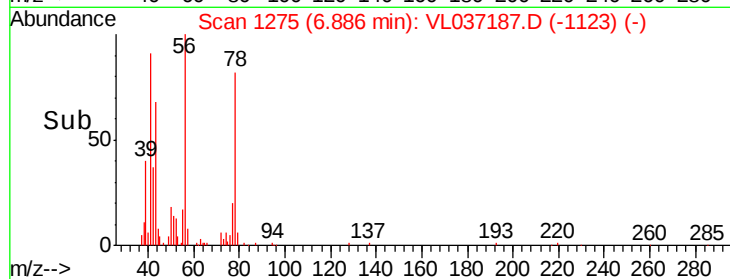
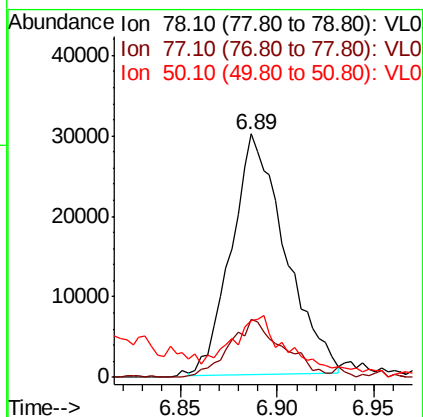
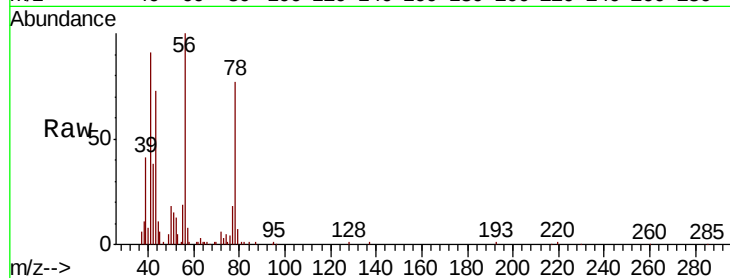




#36
Benzene
Concen: 0.160 ppbv
RT: 6.89 min Scan# 1275
Delta R.T. -0.01 min
Lab File: VL037187.D
Acq: 17 Jun 2021 2:12

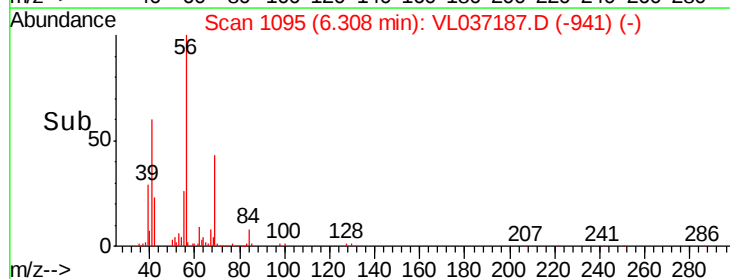
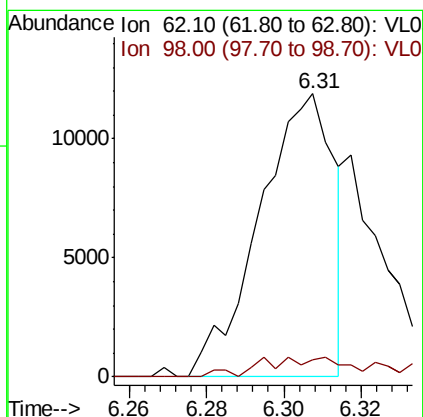
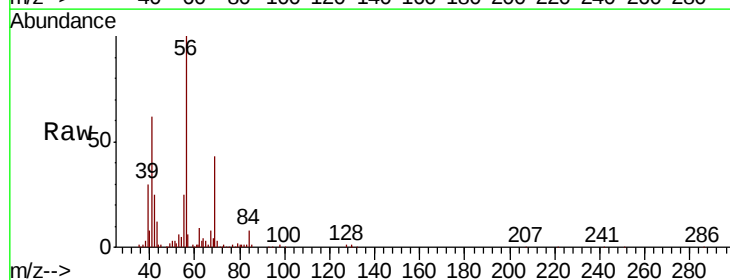
Instrument :
MSVOA_L
ClientSampleId :

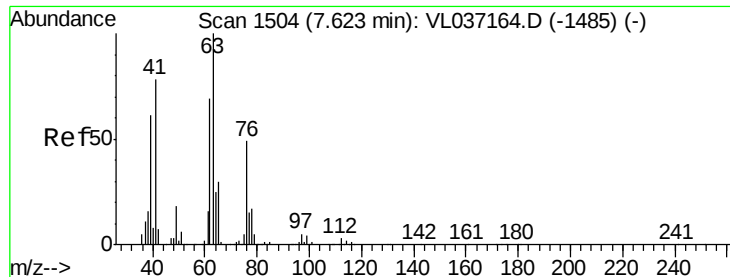
Tot Ion	Ratio	Lower	Upper
78	100		
77	23.5	19.0	28.6
50	19.5	15.7	23.5



#37
1,2-Dichloroethane
Concen: 0.076 ppbv
RT: 6.31 min Scan# 1095
Delta R.T. -0.01 min
Lab File: VL037187.D
Acq: 17 Jun 2021 2:12

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.8	5.0	7.6#





#39

1,2-Dichloropropane

Concen: 8.062 ppbv

RT: 7.18 min Scan# 1365

Delta R.T. -0.45 min

Lab File: VL037187.D

Acq: 17 Jun 2021 2:12

Instrument :

MSVOA_L

ClientSampleId :

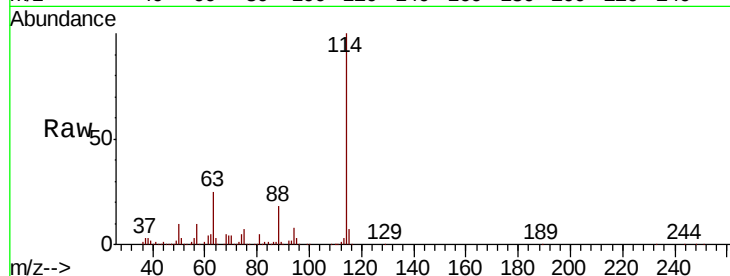
Tot Ion: 63 Resp: 1086283

Ion Ratio Lower Upper

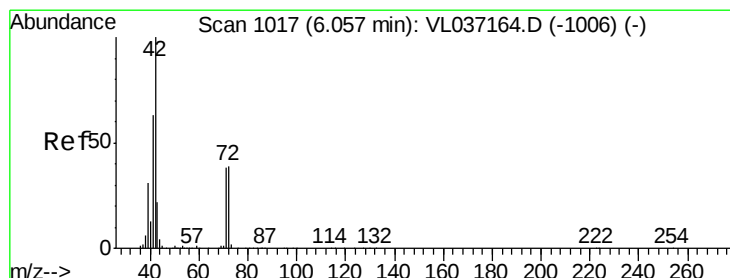
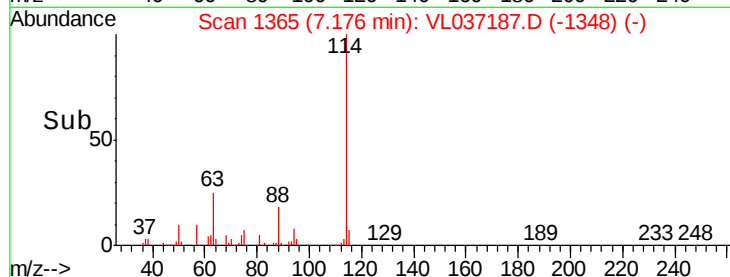
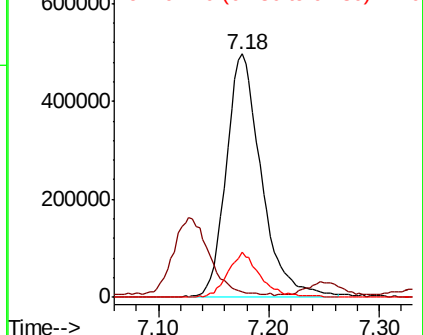
63 100

41 0.0 62.0 93.0#

62 18.4 54.9 82.3#



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



#41

Tetrahydrofuran

Concen: 0.967 ppbv

RT: 6.05 min Scan# 1016

Delta R.T. -0.00 min

Lab File: VL037187.D

Acq: 17 Jun 2021 2:12

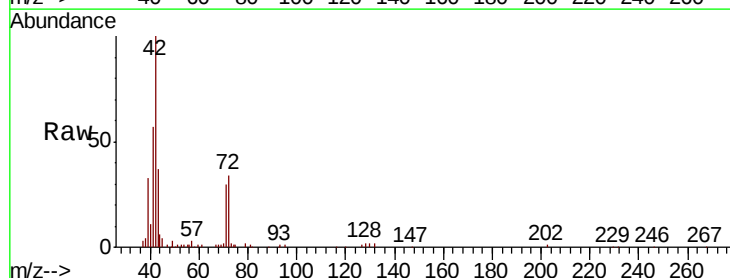
Tgt Ion: 42 Resp: 78329

Ion Ratio Lower Upper

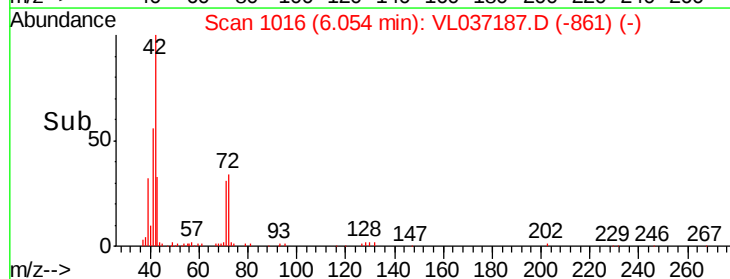
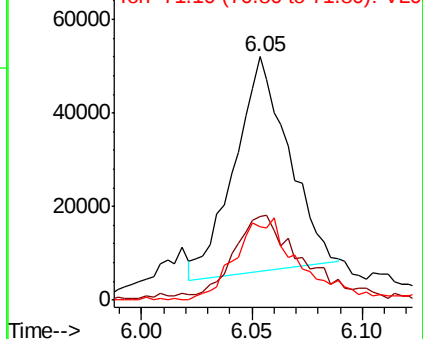
42 100

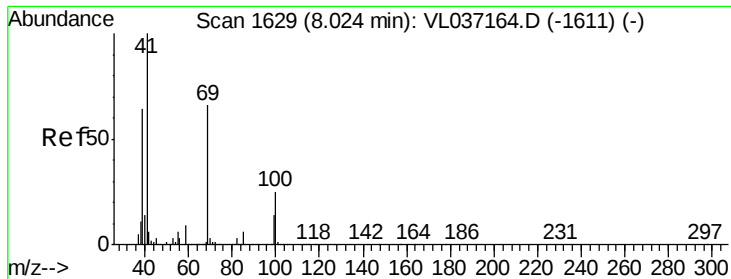
72 56.3 33.0 49.4#

71 46.6 31.0 46.6#



Abundance Ion 42.10 (41.80 to 42.80): VL0
Ion 72.10 (71.80 to 72.80): VL0
Ion 71.10 (70.80 to 71.80): VL0





#43

Methyl Methacrylate

Concen: 0.035 ppbv

RT: 8.02 min Scan# 1627

Delta R.T. -0.01 min

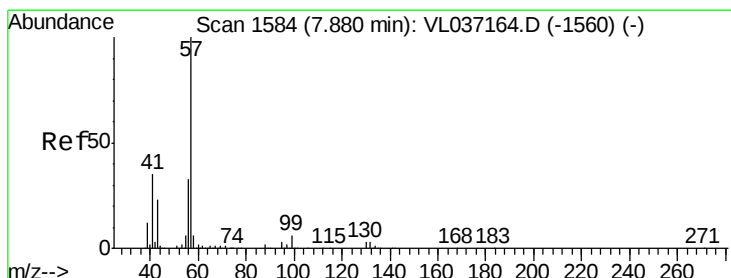
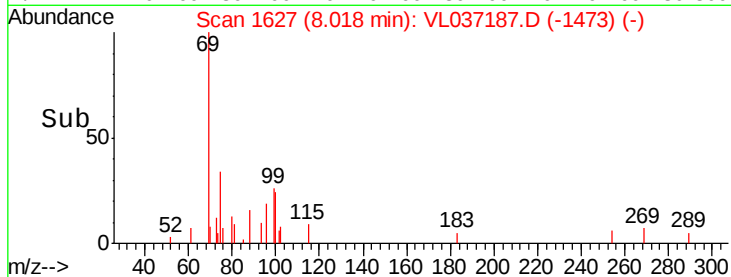
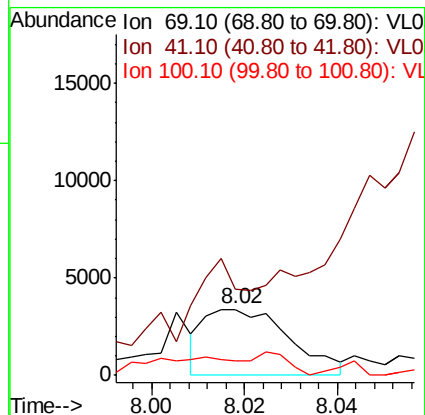
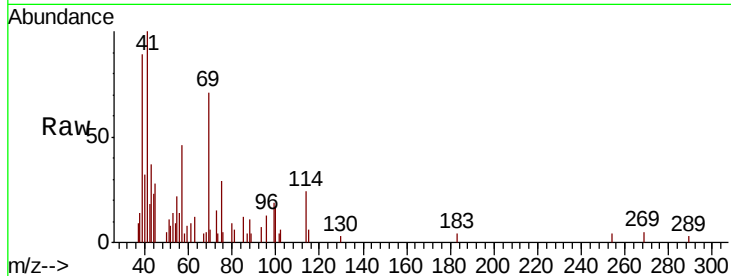
Lab File: VL037187.D

Acq: 17 Jun 2021 2:12

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 69 Resp: 4382

Ion	Ratio	Lower	Upper
69	100		
41	0.0	119.4	179.0#
100	56.3	28.6	43.0#



#44

2,2,4-Trimethylpentane

Concen: 0.088 ppbv

RT: 7.87 min Scan# 1582

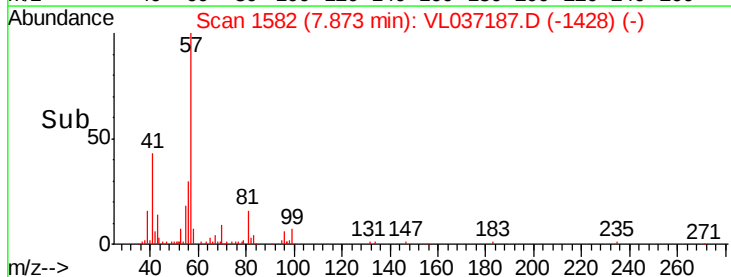
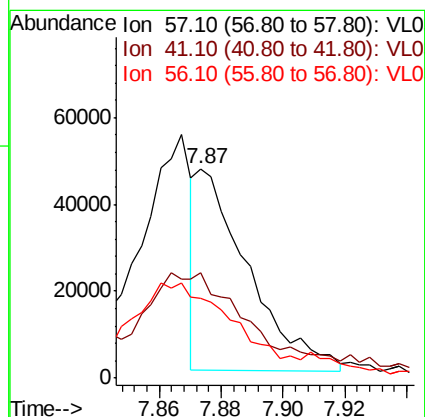
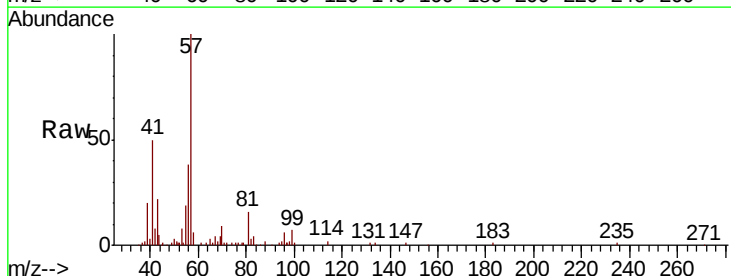
Delta R.T. -0.01 min

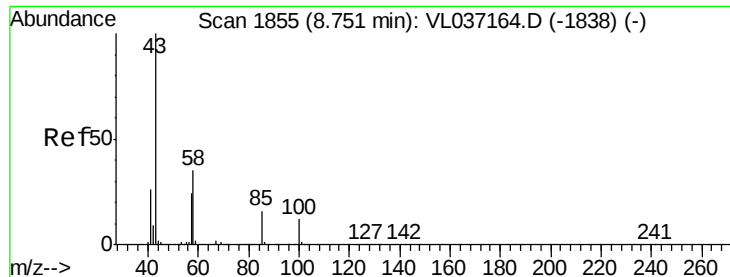
Lab File: VL037187.D

Acq: 17 Jun 2021 2:12

Tgt Ion: 57 Resp: 53426

Ion	Ratio	Lower	Upper
57	100		
41	123.9	27.6	41.4#
56	0.0	25.3	37.9#





#50

4-Methyl-2-Pentanone

Concen: 0.050 ppbv

RT: 8.74 min Scan# 1852

Delta R.T. -0.01 min

Lab File: VL037187.D

Acq: 17 Jun 2021 2:12

Instrument :

MSVOA_L

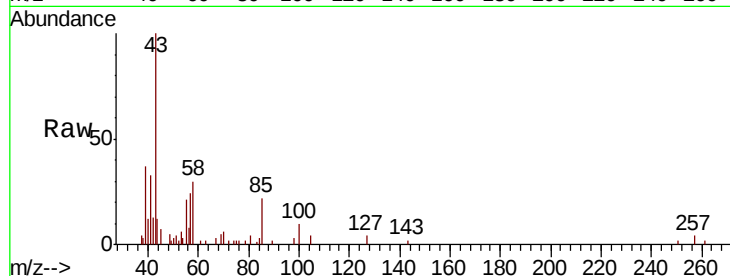
ClientSampleId :

Tot Ion: 43 Resp: 11882

Ion Ratio Lower Upper

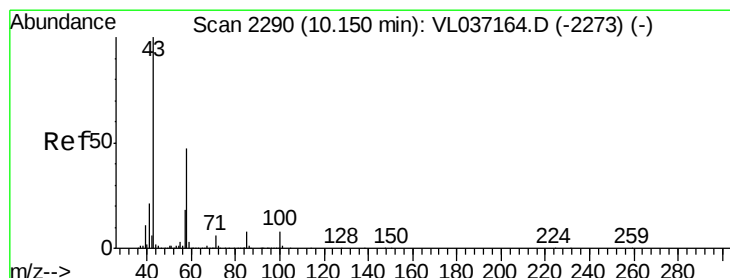
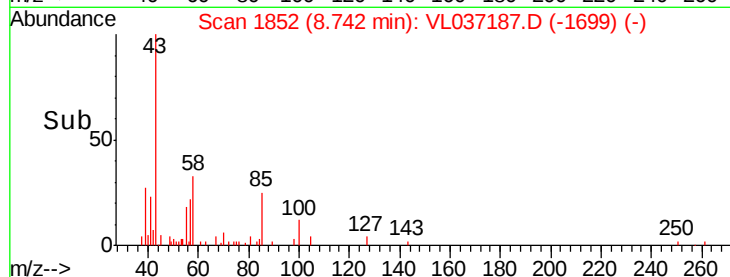
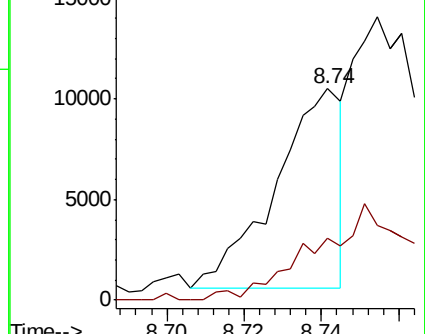
43 100

58 0.0 28.4 42.6#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#51

2-Hexanone

Concen: 0.433 ppbv

RT: 10.06 min Scan# 2261

Delta R.T. -0.09 min

Lab File: VL037187.D

Acq: 17 Jun 2021 2:12

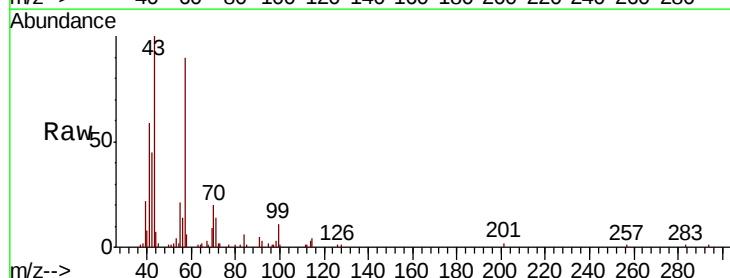
Tgt Ion: 43 Resp: 50499

Ion Ratio Lower Upper

43 100

58 20.4 38.4 57.6#

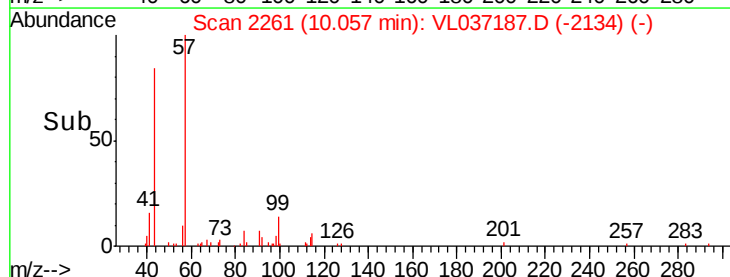
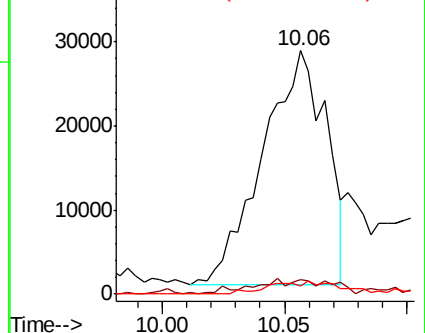
98 7.5 0.3 0.5#

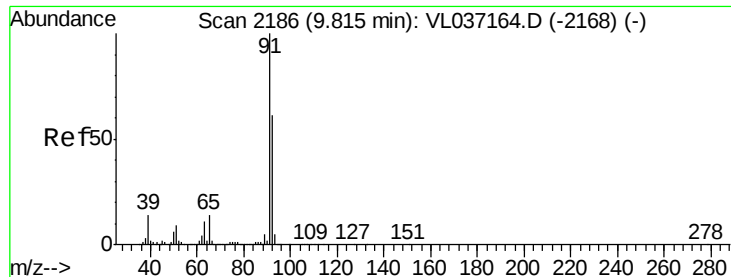


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 98.20 (97.90 to 98.90): VL0





#53

Toluene

Concen: 3.681 ppbv

RT: 9.81 min Scan# 2183

Delta R.T. -0.01 min

Lab File: VL037187.D

Acq: 17 Jun 2021 2:12

Instrument :

MSVOA_L

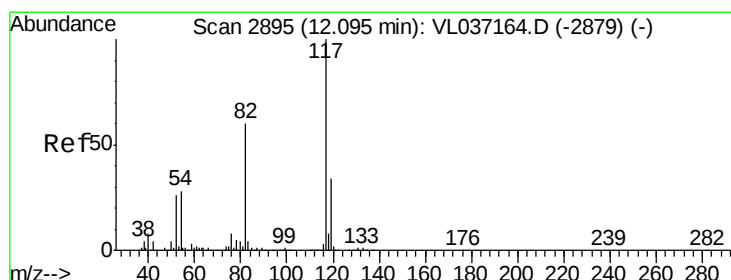
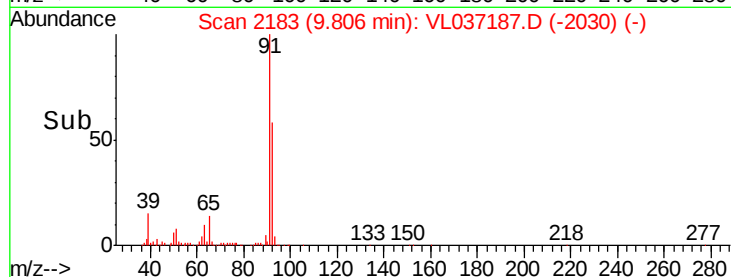
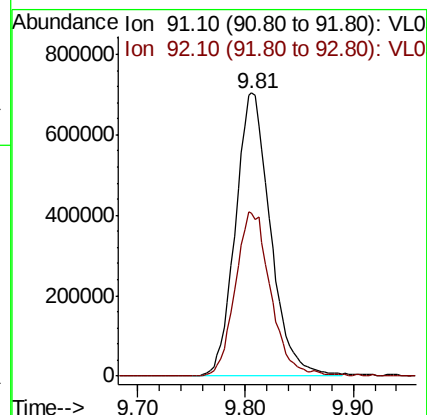
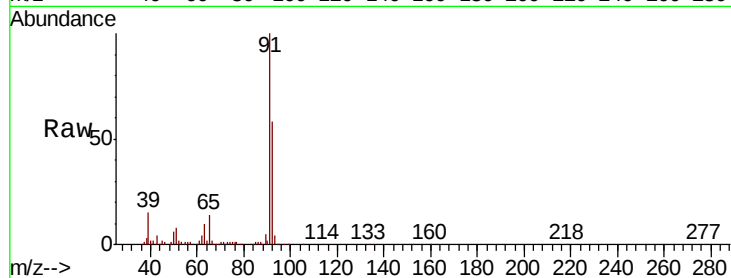
ClientSampleId :

Tot Ion: 91 Resp: 1594489

Ion Ratio Lower Upper

91 100

92 59.1 48.3 72.5



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2892

Delta R.T. -0.01 min

Lab File: VL037187.D

Acq: 17 Jun 2021 2:12

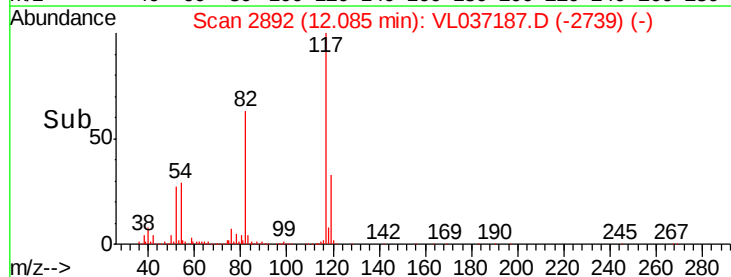
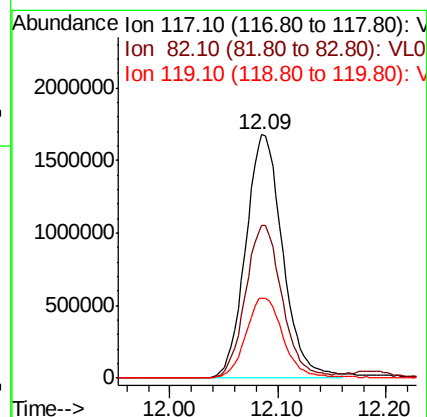
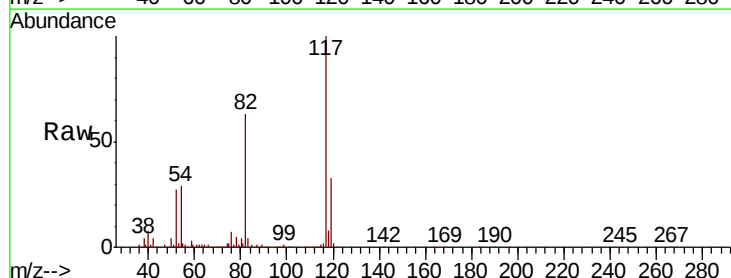
Tgt Ion: 117 Resp: 4001097

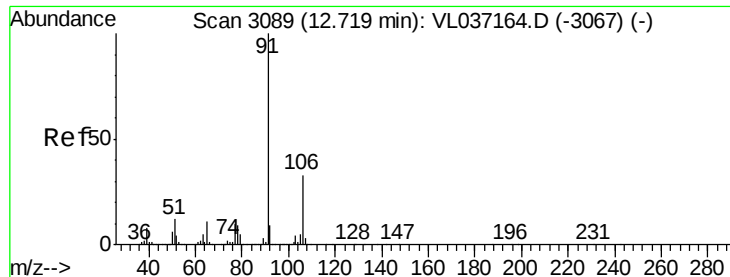
Ion Ratio Lower Upper

117 100

82 62.3 51.7 77.5

119 33.7 47.6 71.4#





#58

Ethyl Benzene

Concen: 0.758 ppbv

RT: 12.71 min Scan# 3087

Delta R.T. -0.01 min

Lab File: VL037187.D

Acq: 17 Jun 2021 2:12

Instrument :

MSVOA_L

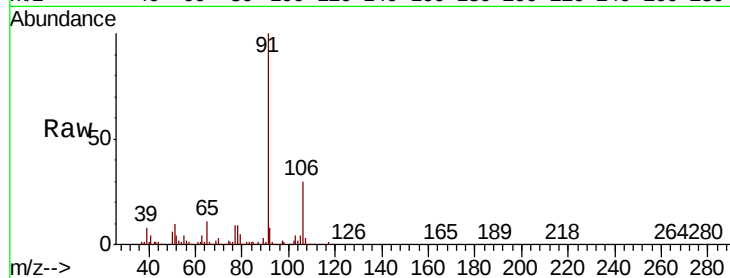
ClientSampleId :

Tot Ion: 91 Resp: 417340

Ion Ratio Lower Upper

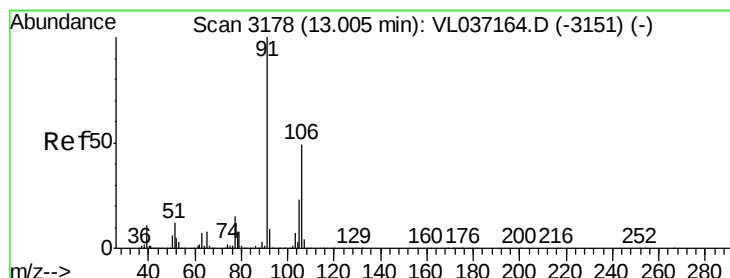
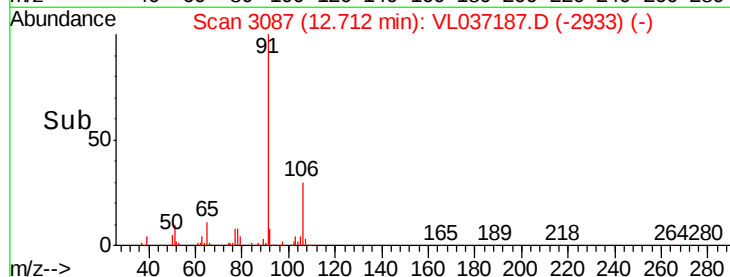
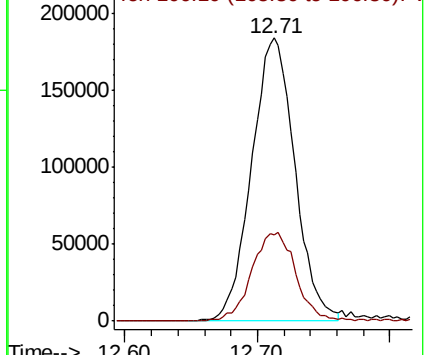
91 100

106 30.5 26.3 39.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 2.642 ppbv

RT: 12.97 min Scan# 3166

Delta R.T. -0.04 min

Lab File: VL037187.D

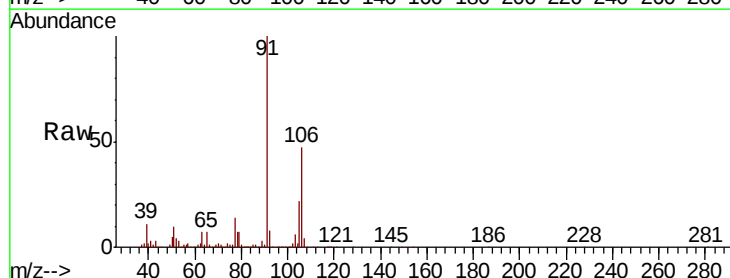
Acq: 17 Jun 2021 2:12

Tgt Ion: 91 Resp: 1233214

Ion Ratio Lower Upper

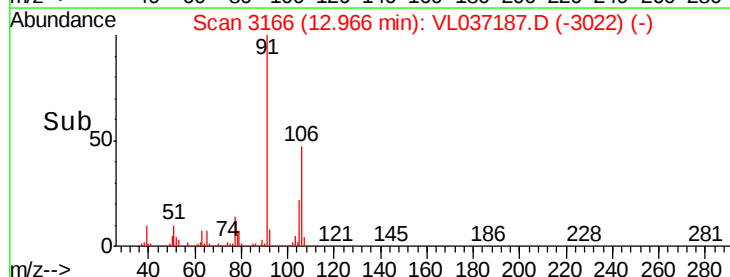
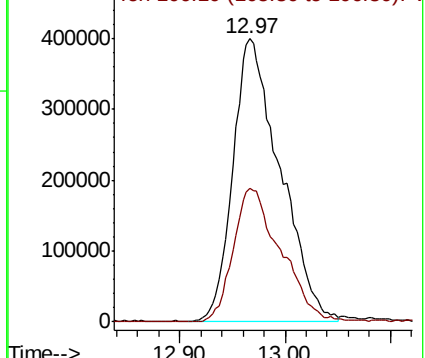
91 100

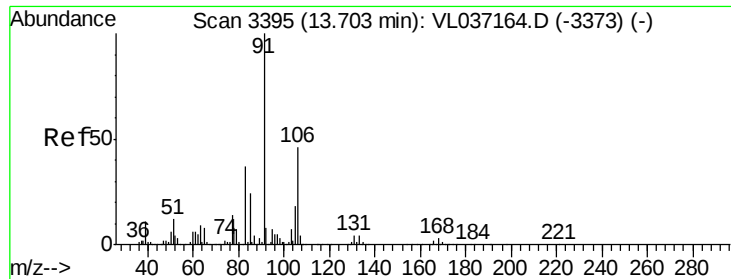
106 48.1 37.0 55.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

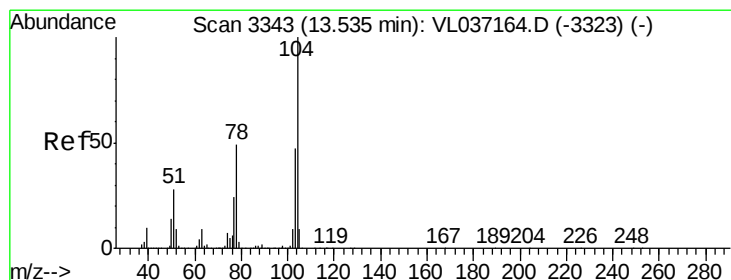
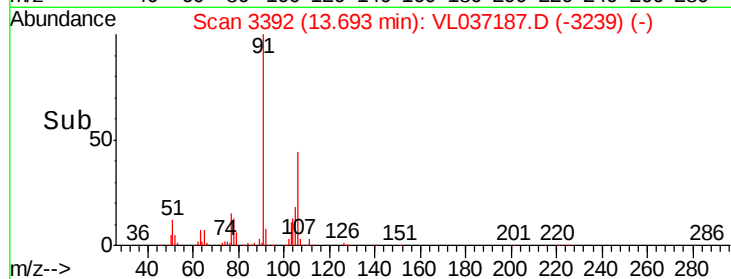
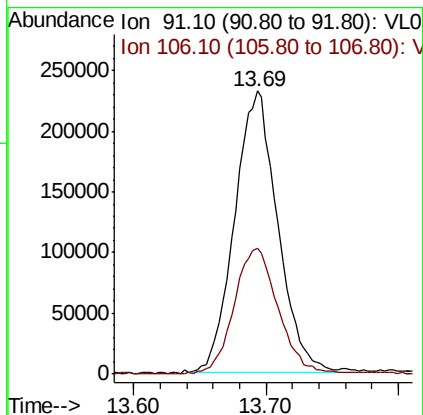
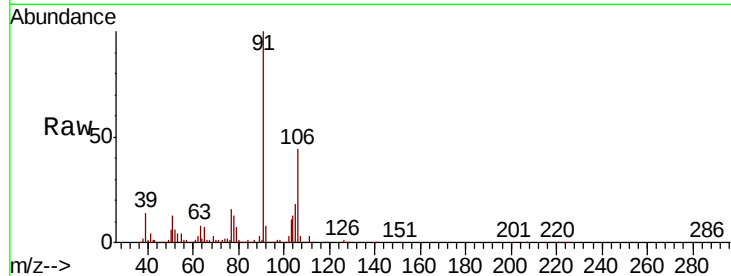




#60
o-Xylene
Concen: 1.176 ppbv
RT: 13.69 min Scan# 3392
Delta R.T. -0.01 min
Lab File: VL037187.D
Acq: 17 Jun 2021 2:12

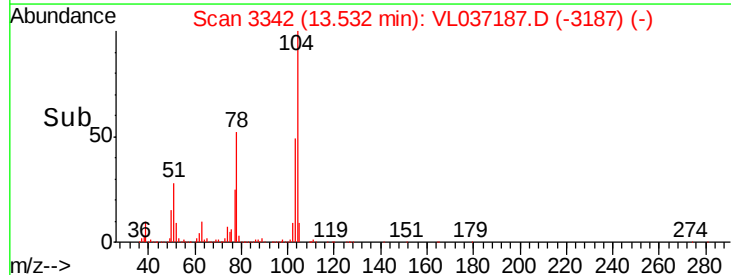
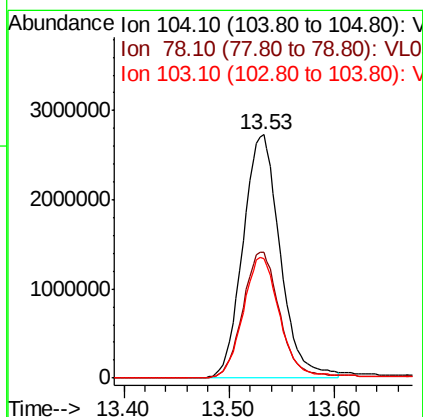
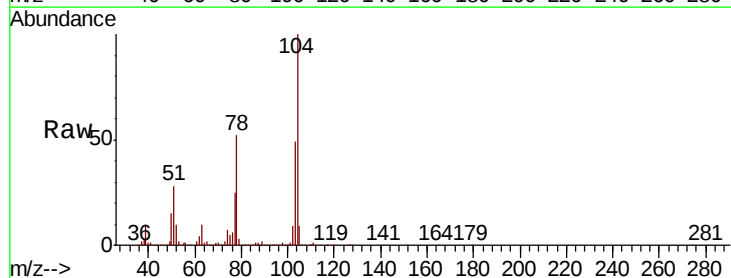
Instrument :
MSVOA_L
ClientSampled :

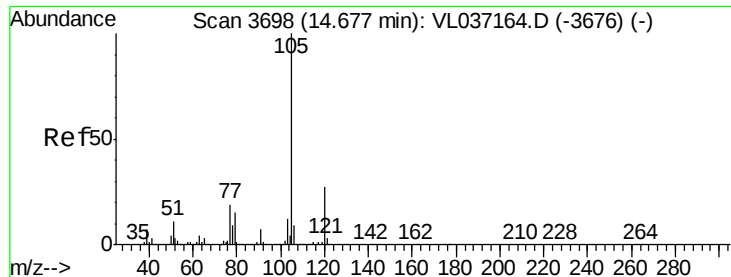
Tot Ion: 91 Resp: 522794
Ion Ratio Lower Upper
91 100
106 46.7 23.0 69.0



#61
Styrene
Concen: 29.276 ppbv
RT: 13.53 min Scan# 3342
Delta R.T. -0.00 min
Lab File: VL037187.D
Acq: 17 Jun 2021 2:12

Tgt Ion: 104 Resp: 6715531
Ion Ratio Lower Upper
104 100
78 52.1 39.7 59.5
103 49.9 37.6 56.4





#62

Isopropylbenzene

Concen: 0.202 ppbv

RT: 14.66 min Scan# 3694

Delta R.T. -0.01 min

Lab File: VL037187.D

Acq: 17 Jun 2021 2:12

Instrument :

MSVOA_L

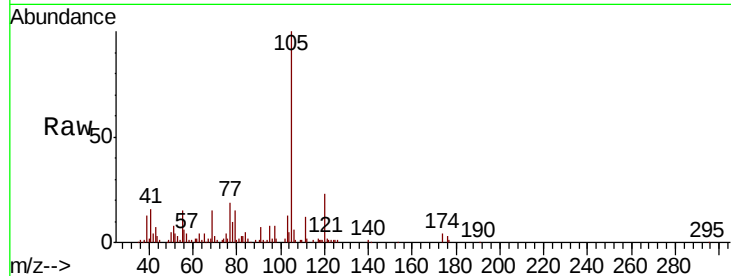
ClientSampleId :

Tot Ion:105 Resp: 127458

Ion Ratio Lower Upper

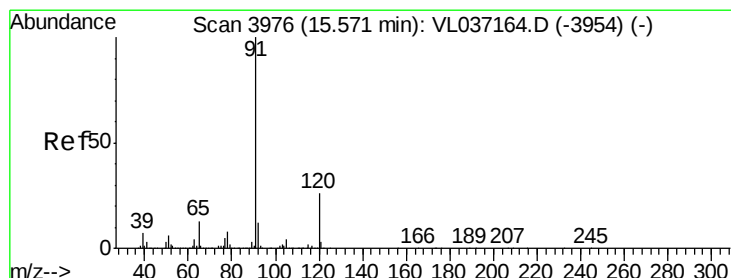
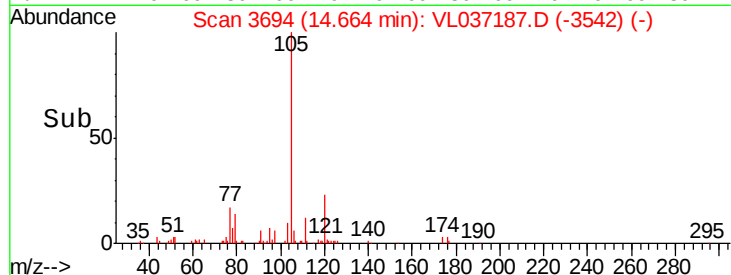
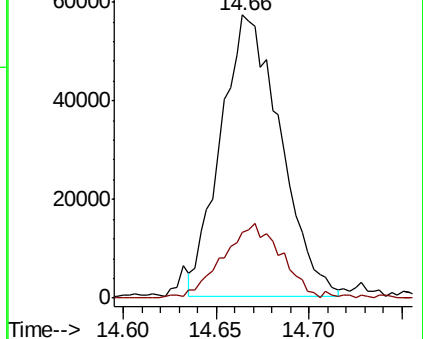
105 100

120 26.5 21.6 32.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#64

n-propylbenzene

Concen: 0.221 ppbv

RT: 15.56 min Scan# 3973

Delta R.T. -0.01 min

Lab File: VL037187.D

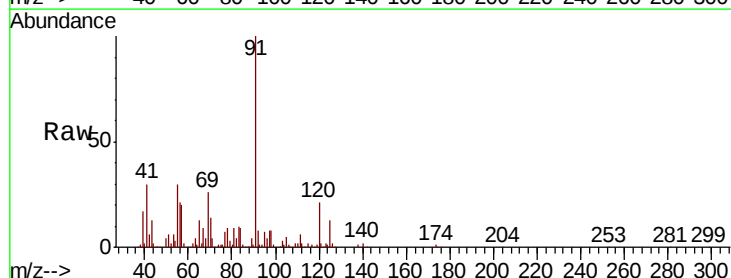
Acq: 17 Jun 2021 2:12

Tgt Ion:120 Resp: 34926

Ion Ratio Lower Upper

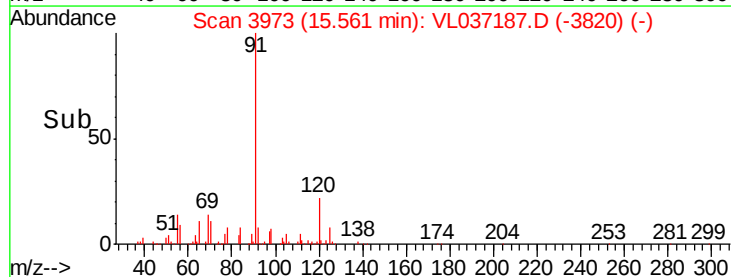
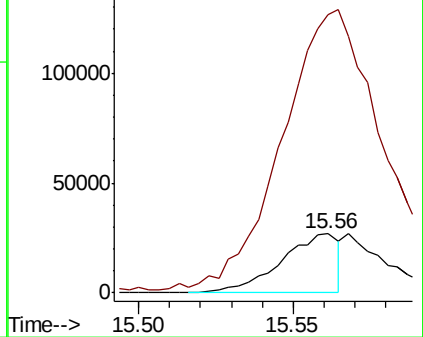
120 100

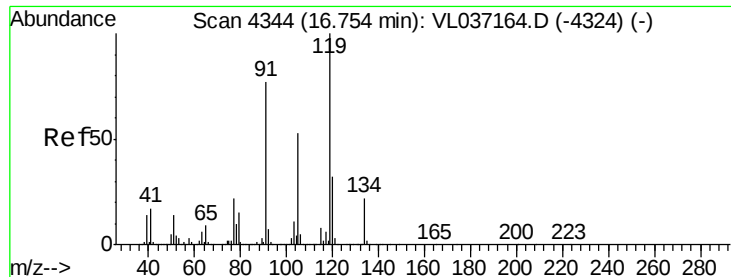
91 0.0 343.3 514.9#



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VLO

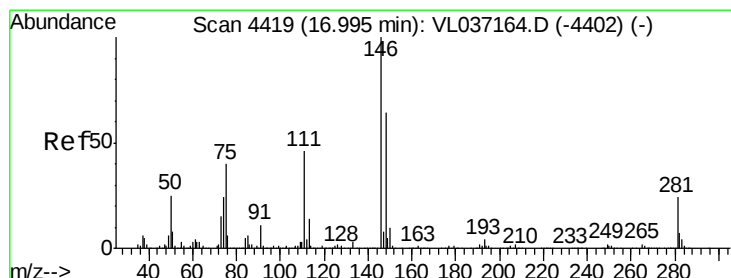
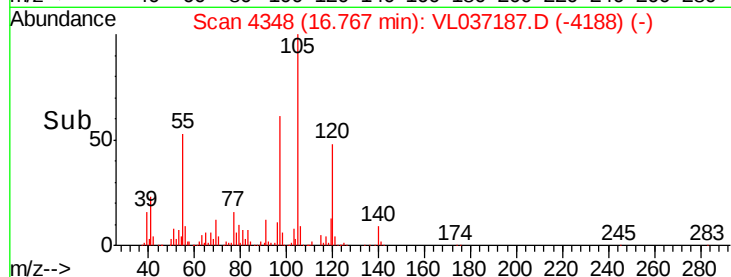
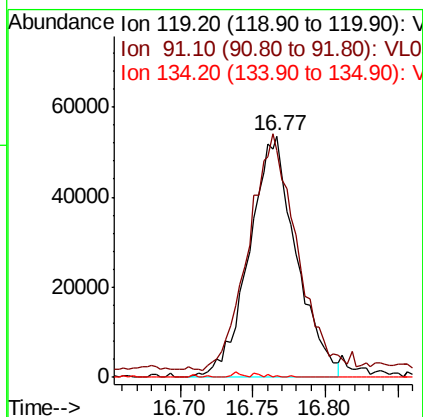
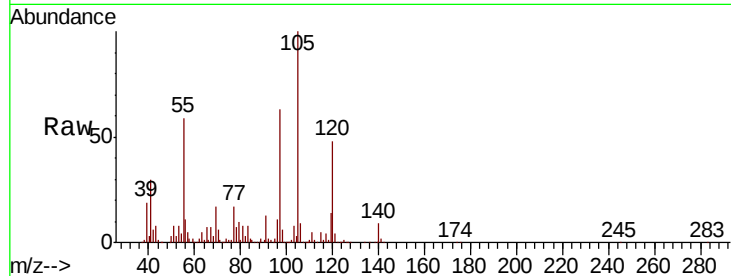




#65
tert-Butylbenzene
Concen: 0.215 ppbv
RT: 16.77 min Scan# 4348
Delta R.T. 0.01 min
Lab File: VL037187.D
Acq: 17 Jun 2021 2:12

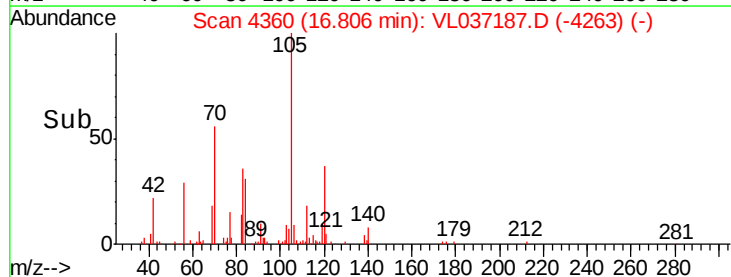
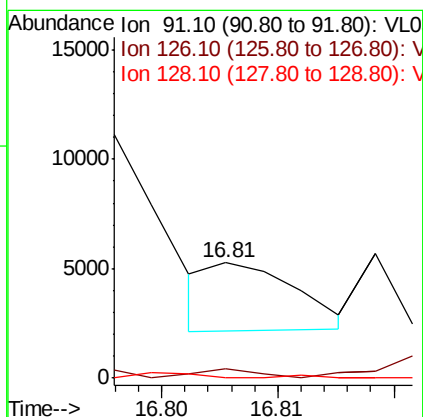
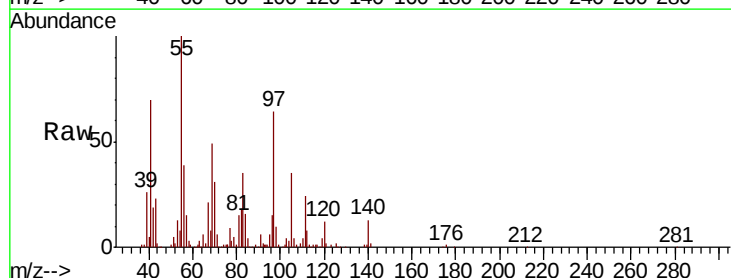
Instrument :
MSVOA_L
ClientSampleId :

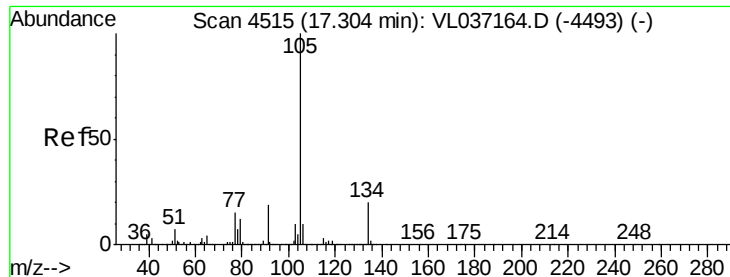
Tot Ion:119 Resp: 120445
Ion Ratio Lower Upper
119 100
91 106.9 62.6 93.8#
134 1.1 16.2 24.4#



#66
Benzyl Chloride
Concen: 0.067 ppbv
RT: 16.81 min Scan# 4360
Delta R.T. -0.19 min
Lab File: VL037187.D
Acq: 17 Jun 2021 2:12

Tgt Ion: 91 Resp: 1600
Ion Ratio Lower Upper
91 100
126 0.0 15.5 23.3#
128 7.5 5.7 8.5





#67

sec-Butylbenzene

Concen: 0.120 ppbv

RT: 17.30 min Scan# 4513

Delta R.T. -0.01 min

Lab File: VL037187.D

Acq: 17 Jun 2021 2:12

Instrument :

MSVOA_L

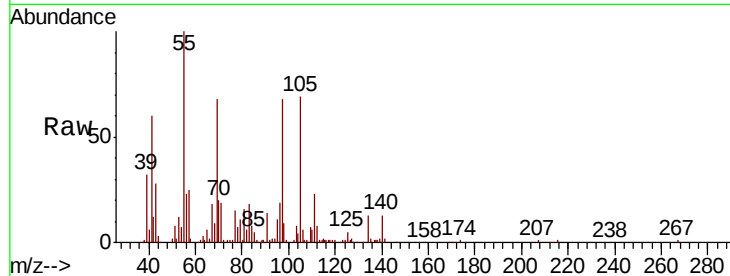
ClientSampleId :

Tot Ion:105 Resp: 89610

Ion Ratio Lower Upper

105 100

134 21.7 15.8 23.6



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

17.30

40000

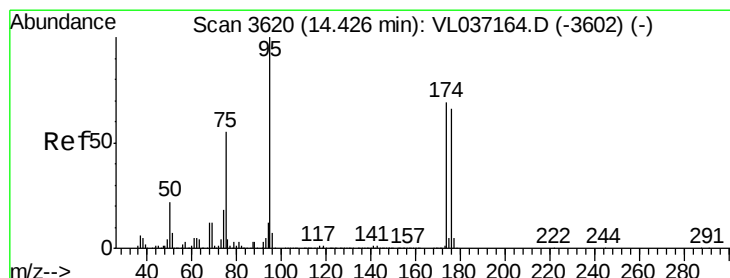
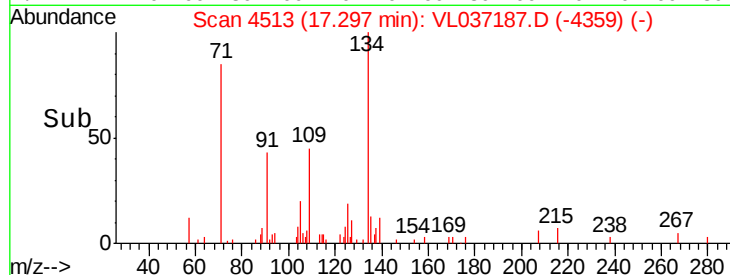
30000

20000

10000

0

Time--> 17.20 17.25 17.30 17.35



#68

1-Bromo-4-Fluorobenzene

Concen: 10.425 ppbv

RT: 14.42 min Scan# 3617

Delta R.T. -0.01 min

Lab File: VL037187.D

Acq: 17 Jun 2021 2:12

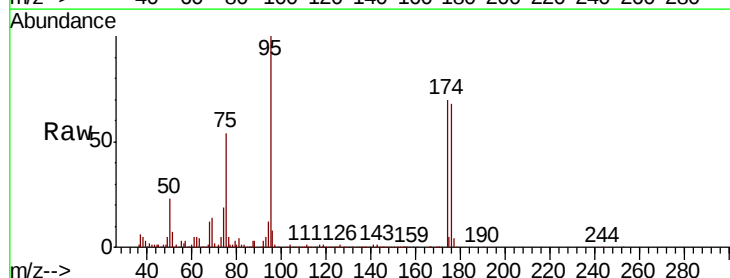
Tgt Ion: 95 Resp: 3160850

Ion Ratio Lower Upper

95 100

174 71.8 57.0 85.4

175 5.3 4.4 6.6



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

14.42

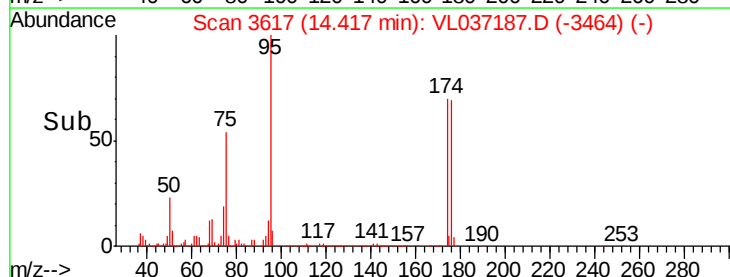
1500000

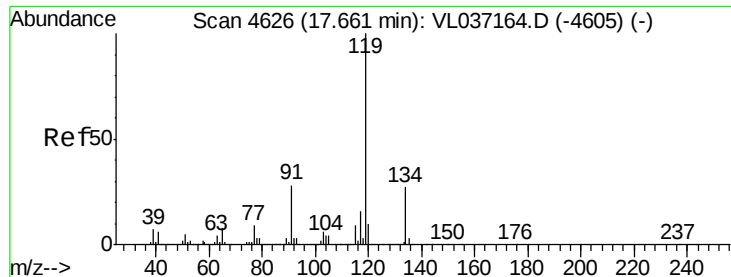
1000000

500000

0

Time--> 14.30 14.40 14.50

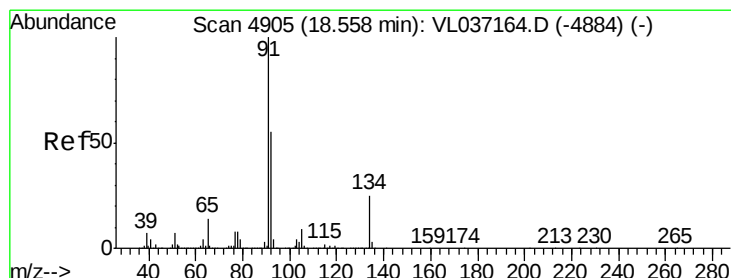
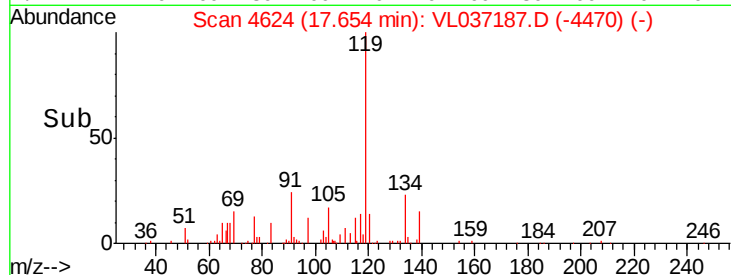
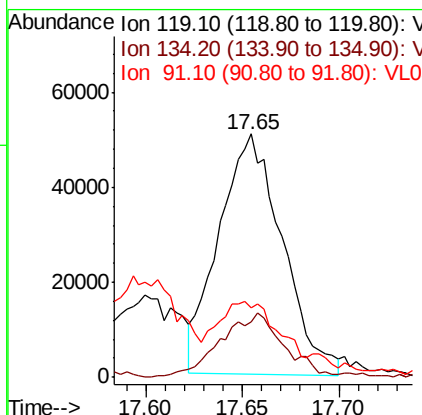
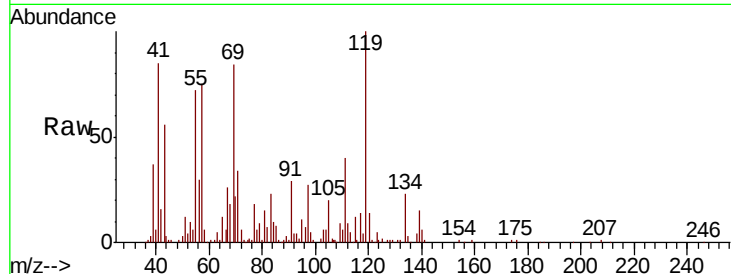




#69
 p-Isopropyltoluene
 Concen: 0.183 ppbv
 RT: 17.65 min Scan# 4624
 Delta R.T. -0.01 min
 Lab File: VL037187.D
 Acq: 17 Jun 2021 2:12

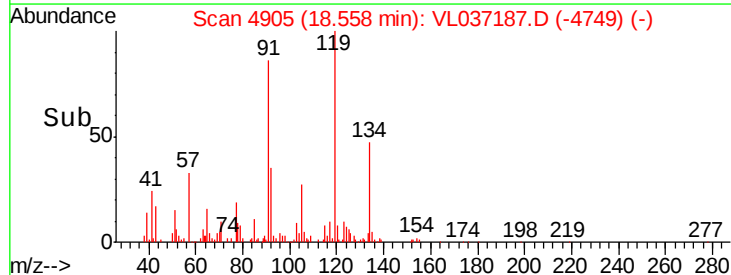
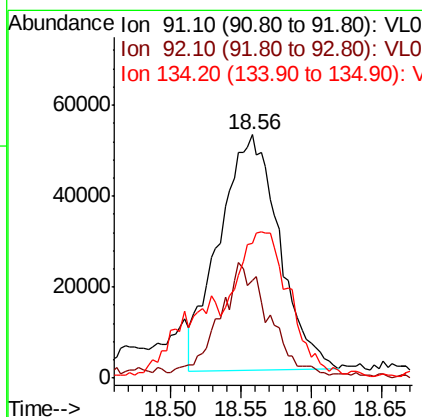
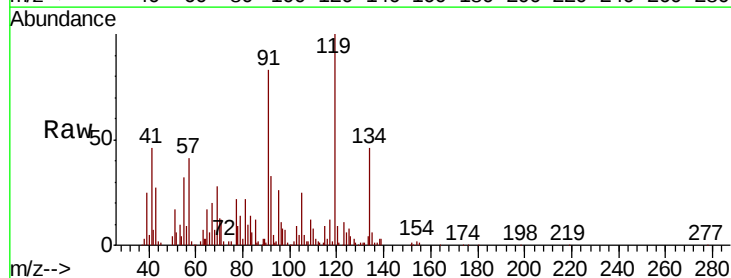
Instrument :
 MSVOA_L
 ClientSampleId :

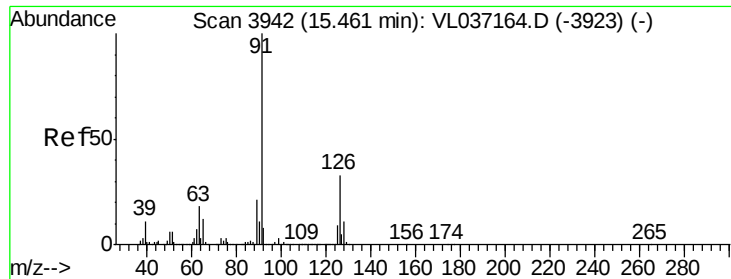
Tot Ion	Ratio	Lower	Upper
119	100		
134	27.8	20.9	31.3
91	32.9	22.6	34.0



#70
 n-Butylbenzene
 Concen: 0.263 ppbv
 RT: 18.56 min Scan# 4905
 Delta R.T. 0.00 min
 Lab File: VL037187.D
 Acq: 17 Jun 2021 2:12

Tgt Ion	Ratio	Lower	Upper
91	100		
92	42.9	44.0	66.0#
134	81.6	20.2	30.4#

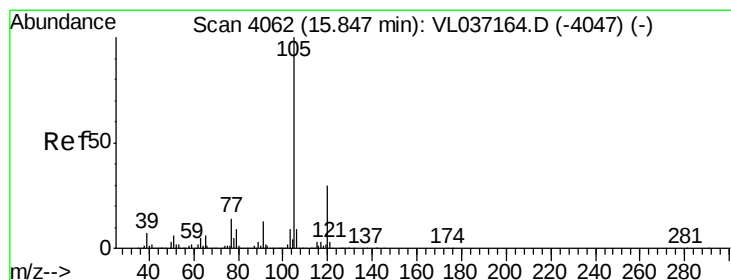
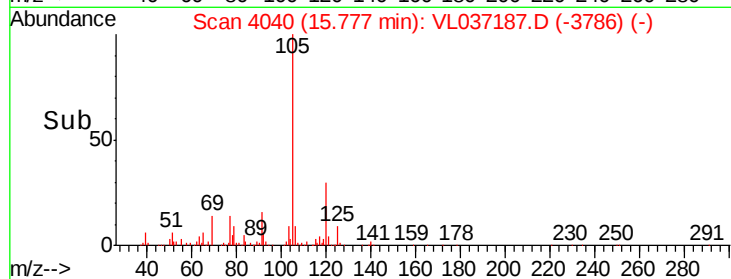
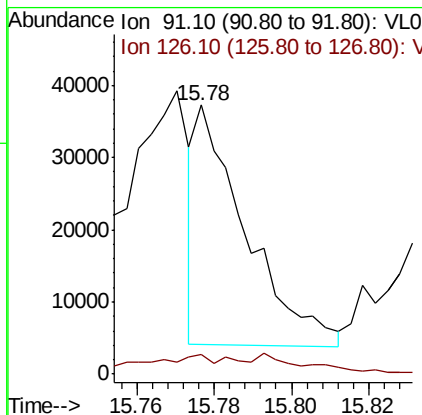
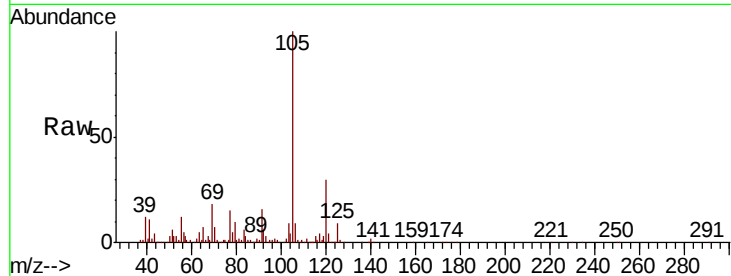




#71
2-Chlorotoluene
Concen: 0.067 ppbv
RT: 15.78 min Scan# 4040
Delta R.T. 0.32 min
Lab File: VL037187.D
Acq: 17 Jun 2021 2:12

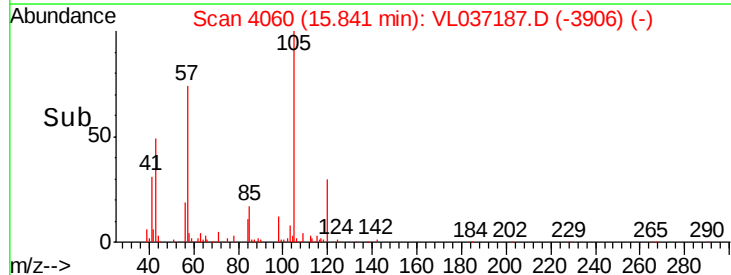
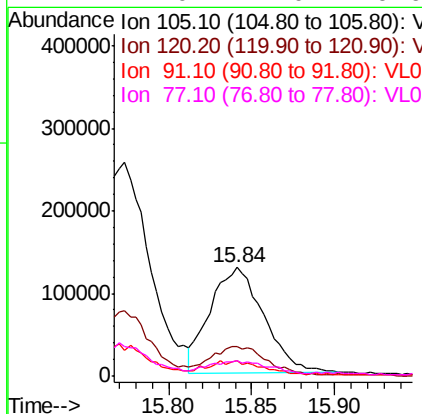
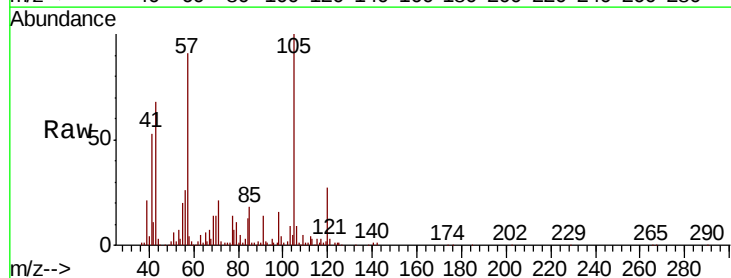
Instrument :
MSVOA_L
ClientSampleId :

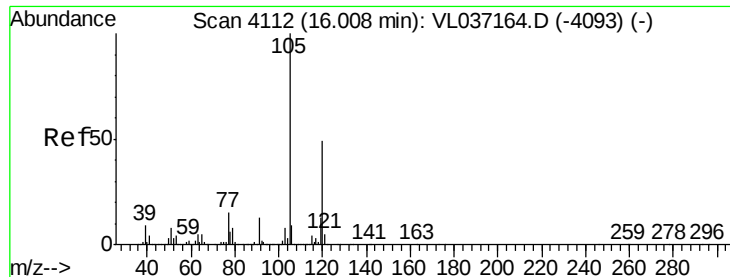
Tot Ion: 91 Resp: 29638
Ion Ratio Lower Upper
91 100
126 25.4 13.5 54.1



#72
4-Ethyltoluene
Concen: 0.574 ppbv
RT: 15.84 min Scan# 4060
Delta R.T. -0.01 min
Lab File: VL037187.D
Acq: 17 Jun 2021 2:12

Tgt Ion: 105 Resp: 289983
Ion Ratio Lower Upper
105 100
120 29.3 24.7 37.1
91 15.4 10.2 15.4#
77 17.0 11.0 16.6#





#73

1,3,5-Trimethylbenzene

Concen: 0.694 ppbv

RT: 16.00 min Scan# 4110

Delta R.T. -0.01 min

Lab File: VL037187.D

Acq: 17 Jun 2021 2:12

Instrument :

MSVOA_L

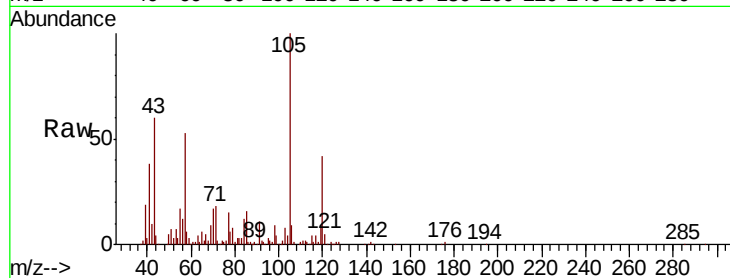
ClientSampleId :

Tot Ion:105 Resp: 338679

Ion Ratio Lower Upper

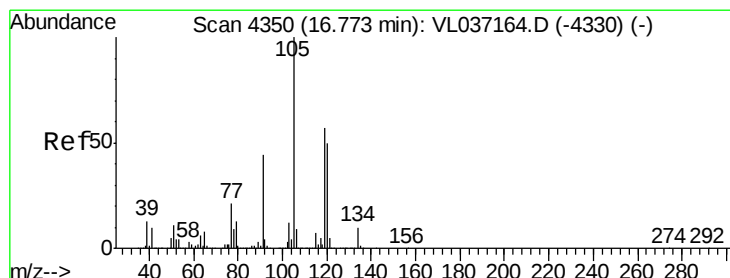
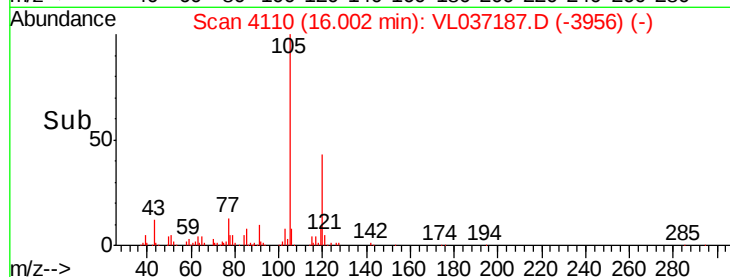
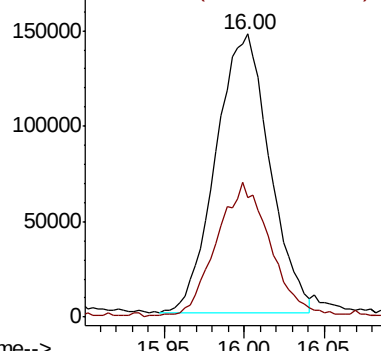
105 100

120 42.5 39.4 59.2



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: 2.018 ppbv

RT: 16.76 min Scan# 4346

Delta R.T. -0.01 min

Lab File: VL037187.D

Acq: 17 Jun 2021 2:12

Tgt Ion:105 Resp: 1014864

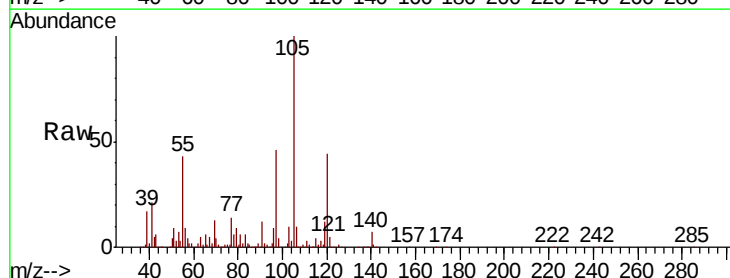
Ion Ratio Lower Upper

105 100

120 44.0 39.8 59.8

91 11.1 37.0 55.4#

77 13.7 17.0 25.4#

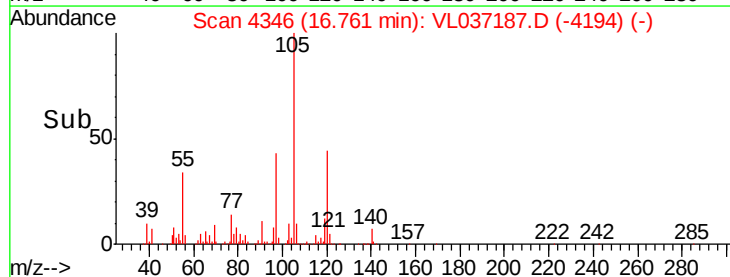
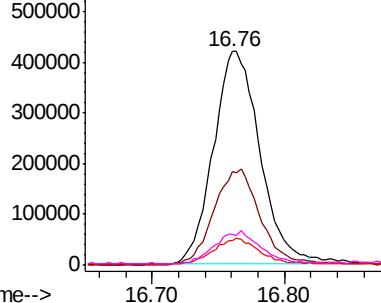


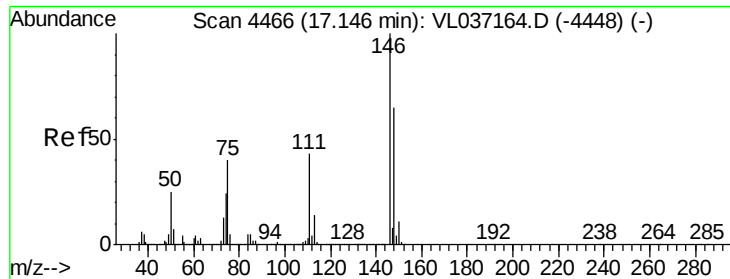
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

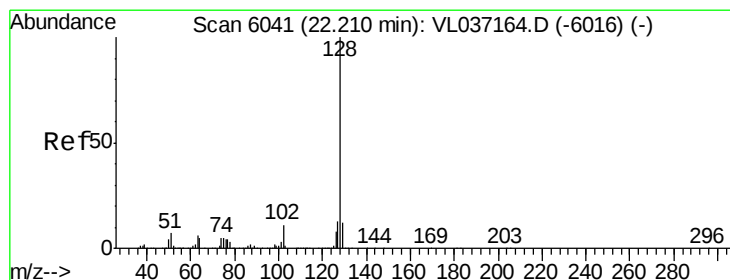
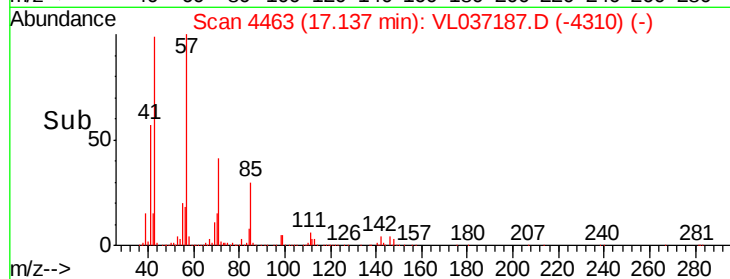
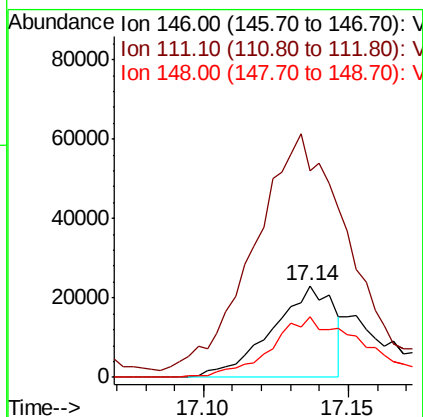
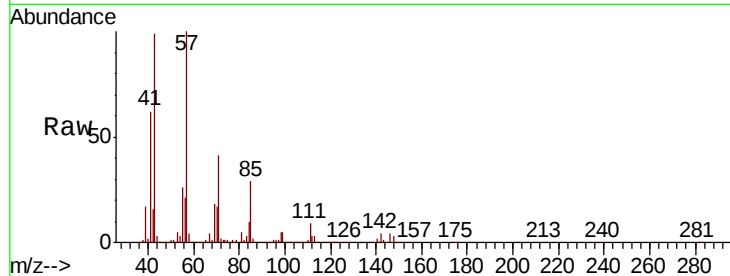




#76
1,4-Dichlorobenzene
Concen: 0.111 ppbv
RT: 17.14 min Scan# 4463
Delta R.T. -0.01 min
Lab File: VL037187.D
Acq: 17 Jun 2021 2:12

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:146 Resp: 33946
Ion Ratio Lower Upper
146 100
111 427.4 22.7 68.0#
148 106.7 33.7 101.1#



#79
Naphthalene
Concen: 0.040 ppbv
RT: 22.21 min Scan# 6041
Delta R.T. 0.00 min
Lab File: VL037187.D
Acq: 17 Jun 2021 2:12

Tgt Ion:128 Resp: 16891
Ion Ratio Lower Upper
128 100
127 15.0 10.7 16.1
129 13.7 9.3 13.9

