

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060121\
 Data File : VL037086.D
 Acq On : 2 Jun 2021 1:35
 Operator : SY/AP
 Sample : M2548-04
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jun 02 03:04:35 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 12:00:15 2021
 QLast Update : Tue May 18 12:00:15 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1347247	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.15	114	3958860	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	3465718	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	2661208	10.22	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.20%

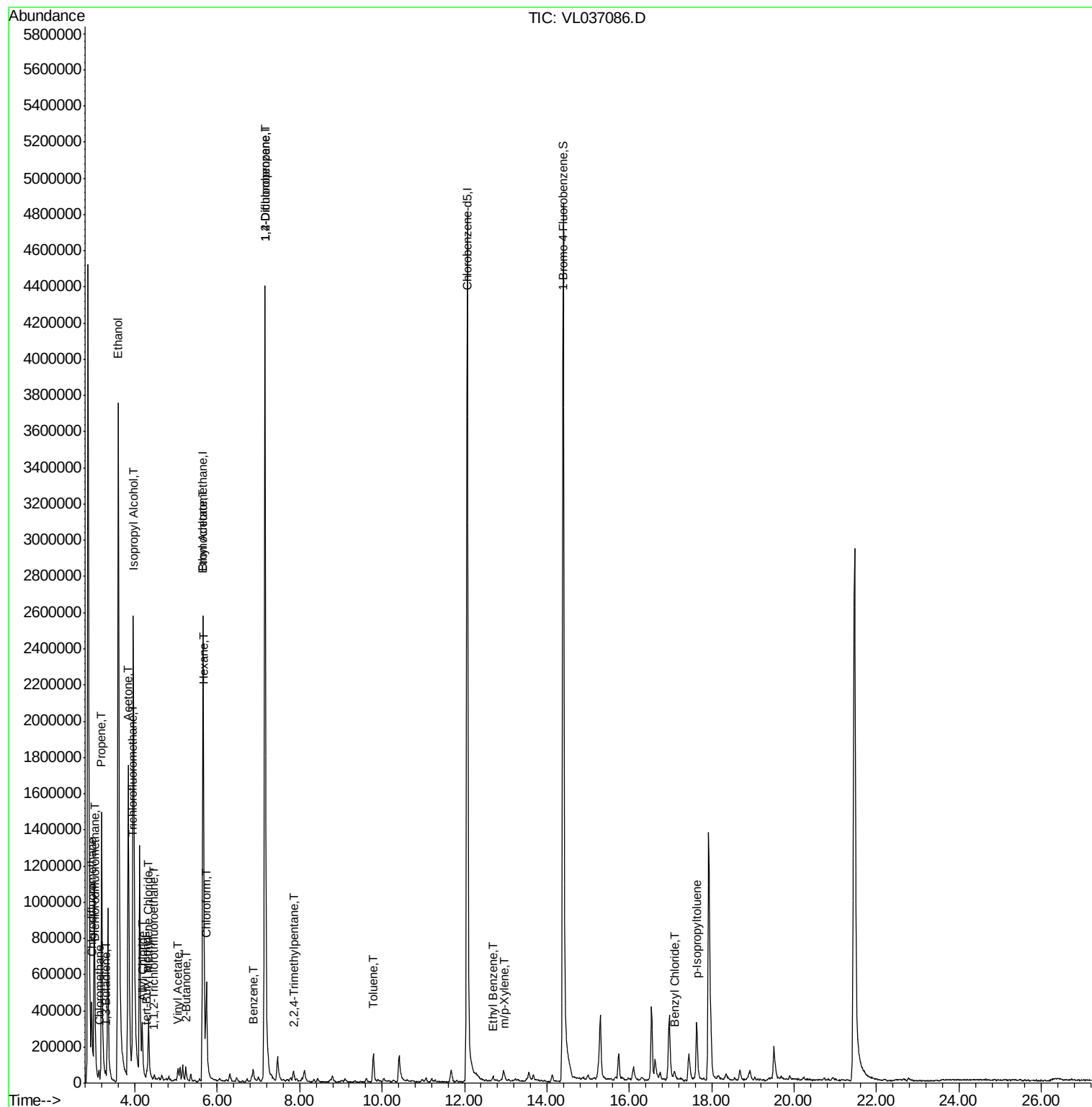
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	142529	0.624	ppbv	95
3) Chlorodifluoromethane	2.95	51	364466	1.477	ppbv #	67
4) Chloromethane	3.13	50	53197	0.633	ppbv	89
9) Propene	3.19	41	446487	5.052	ppbv	85
11) Trichlorofluoromethane	3.93	101	92925	0.439	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.47	101	5569	0.037	ppbv #	11
13) Ethanol	3.59	45	5423564	459.927	ppbv	94
15) Acetone	3.83	43	2360157	17.103	ppbv	96
16) 1,3-Butadiene	3.29	39	7581	0.088	ppbv #	10
17) tert-Butyl alcohol	4.29	59	9938	0.079	ppbv #	72
19) Isopropyl Alcohol	3.96	45	3682744	49.647	ppbv #	34
20) Methylene Chloride	4.33	84	130375	1.763	ppbv	95
21) Allyl Chloride	4.20	41	5073	0.049	ppbv #	17
23) Vinyl Acetate	5.05	43	20332	0.093	ppbv #	27
25) Ethyl Acetate	5.66	43	51914	0.157	ppbv #	67
26) Hexane	5.67	57	108763	0.642	ppbv #	62
29) Chloroform	5.74	83	392151	1.639	ppbv	99
34) 2-Butanone	5.24	43	101629	0.705	ppbv	95
36) Benzene	6.87	78	26969	0.079	ppbv	93
39) 1,2-Dichloropropane	7.16	63	925125	7.043	ppbv #	26
44) 2,2,4-Trimethylpentane	7.85	57	44066	0.075	ppbv #	75
53) Toluene	9.79	91	112782	0.278	ppbv	99
58) Ethyl Benzene	12.69	91	20000	0.041	ppbv	96
59) m/p-Xylene	12.97	91	15391	0.038	ppbv #	30
66) Benzyl Chloride	17.09	91	1036	0.037	ppbv #	91
69) p-Isopropyltoluene	17.64	119	276634	0.472	ppbv	97

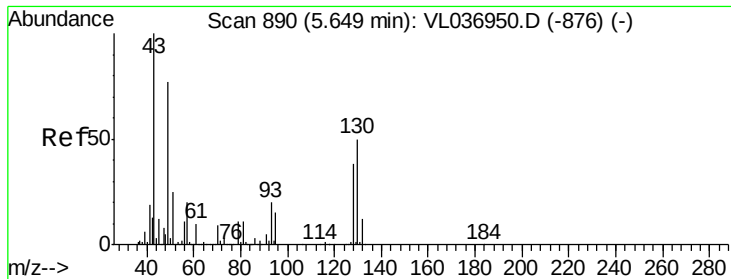
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 890

Delta R.T. -0.00 min

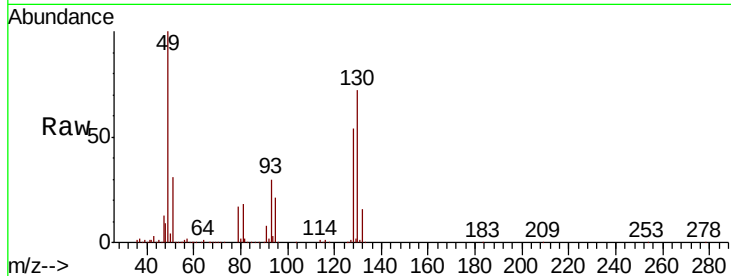
Lab File: VL037086.D

Acq: 2 Jun 2021 1:35

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 49 Resp: 1347247

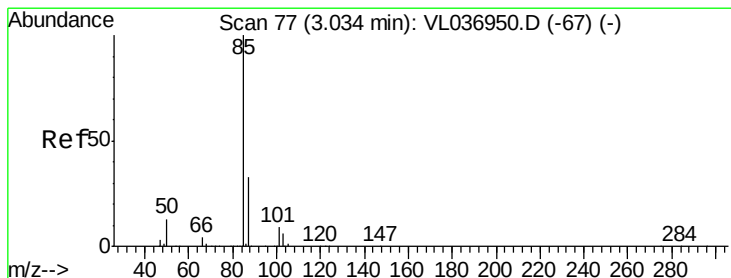
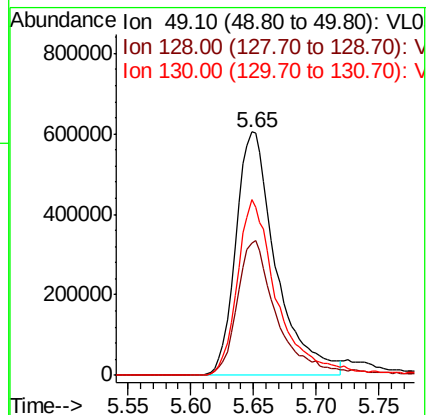
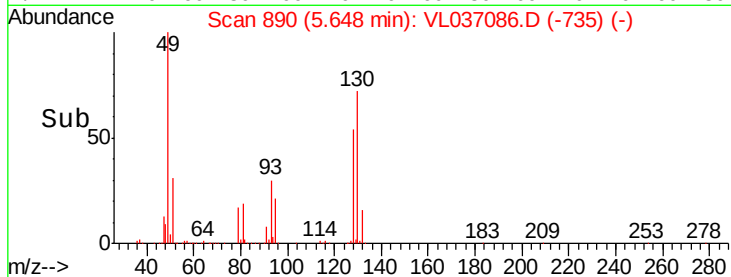
Ion	Ratio	Lower	Upper
49	100		
128	56.8	26.9	80.7
130	72.8	33.8	101.4



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.624 ppbv

RT: 3.03 min Scan# 77

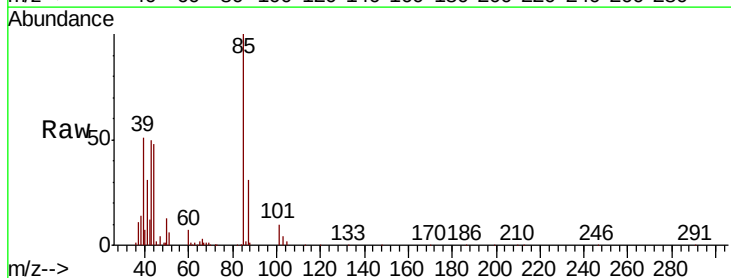
Delta R.T. -0.00 min

Lab File: VL037086.D

Acq: 2 Jun 2021 1:35

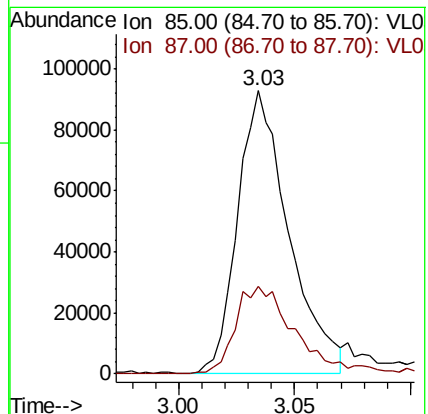
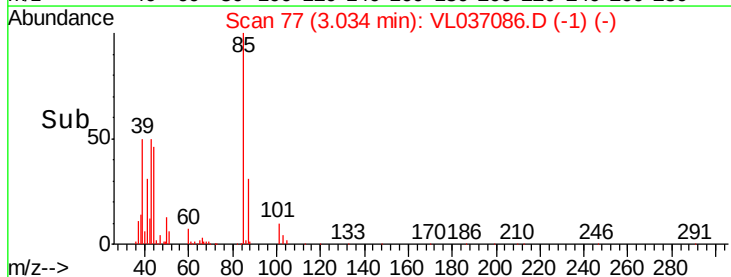
Tgt Ion: 85 Resp: 142529

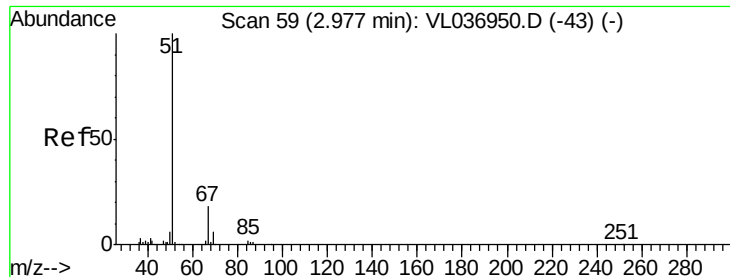
Ion	Ratio	Lower	Upper
85	100		
87	30.5	26.6	39.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.477 ppbv

RT: 2.95 min Scan# 51

Delta R.T. -0.03 min

Lab File: VL037086.D

Acq: 2 Jun 2021 1:35

Instrument :

MSVOA_L

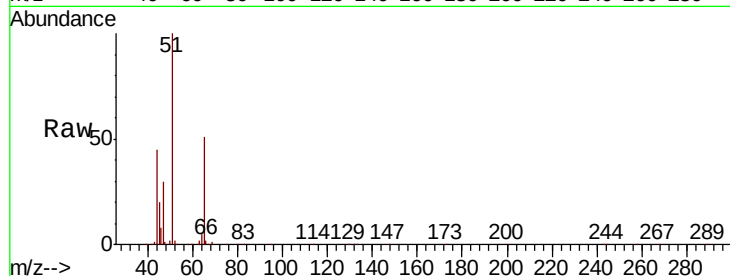
ClientSampleId :

Tot Ion: 51 Resp: 364466

Ion Ratio Lower Upper

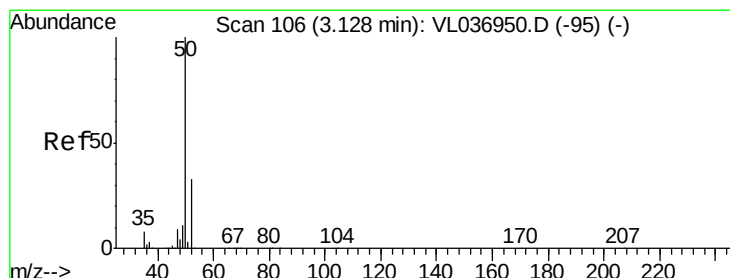
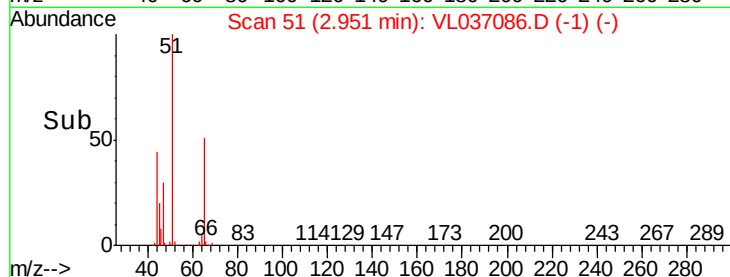
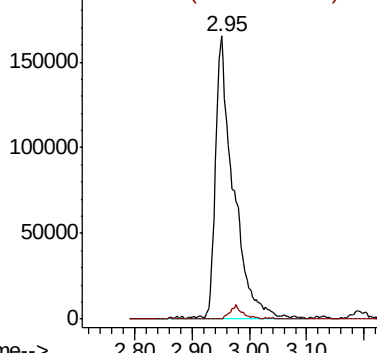
51 100

67 3.6 14.6 21.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.633 ppbv

RT: 3.13 min Scan# 106

Delta R.T. -0.00 min

Lab File: VL037086.D

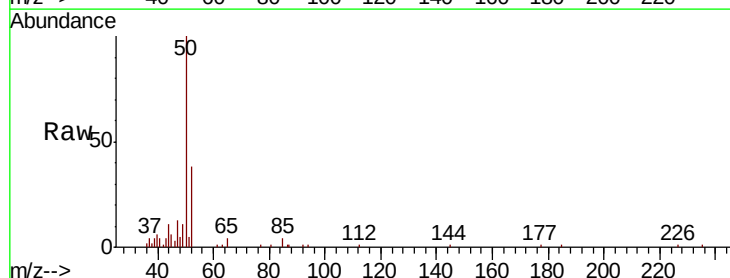
Acq: 2 Jun 2021 1:35

Tgt Ion: 50 Resp: 53197

Ion Ratio Lower Upper

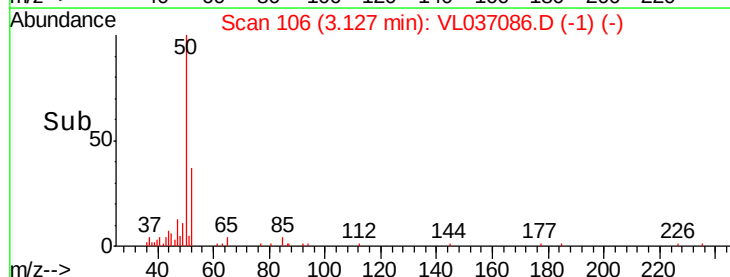
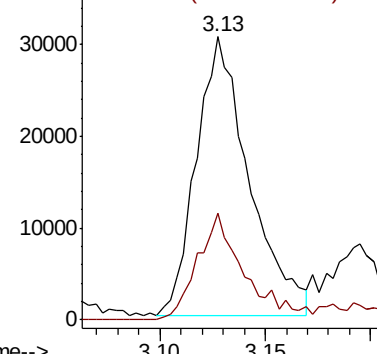
50 100

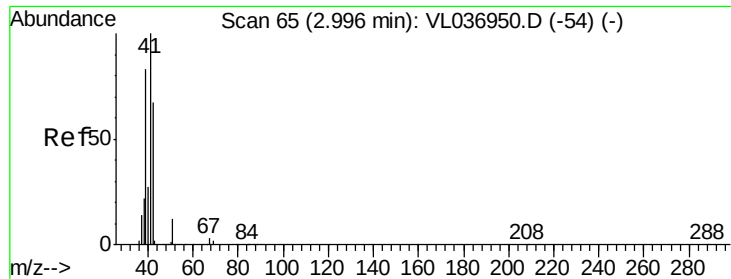
52 38.8 26.1 39.1



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 5.052 ppbv

RT: 3.19 min Scan# 125

Delta R.T. 0.19 min

Lab File: VL037086.D

Acq: 2 Jun 2021 1:35

Instrument :

MSVOA_L

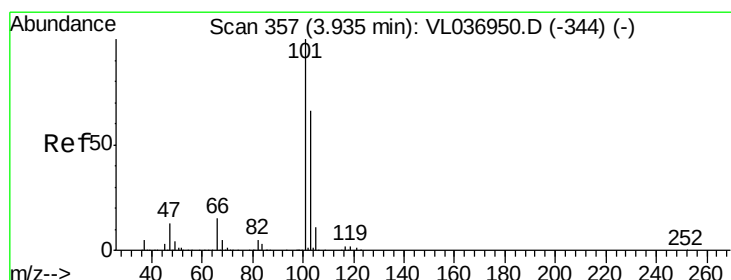
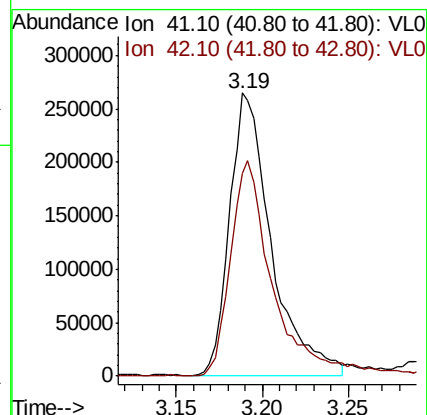
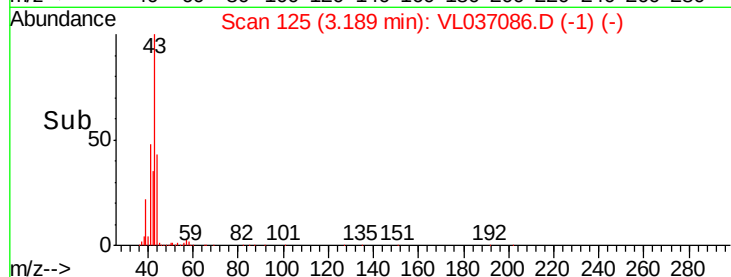
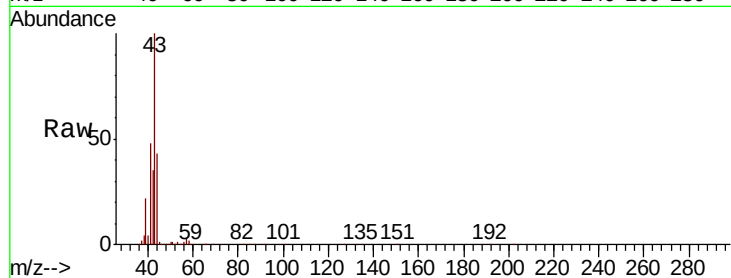
ClientSampleId :

Tot Ion: 41 Resp: 446487

Ion Ratio Lower Upper

41 100

42 79.2 53.9 80.9



#11

Trichlorofluoromethane

Concen: 0.439 ppbv

RT: 3.93 min Scan# 357

Delta R.T. -0.00 min

Lab File: VL037086.D

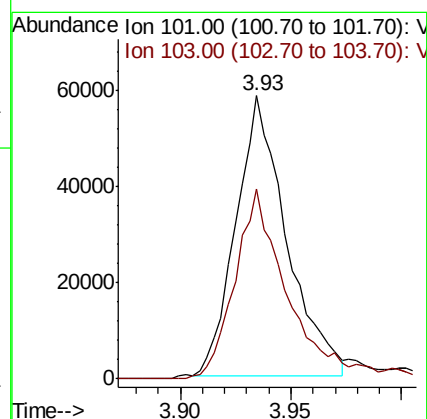
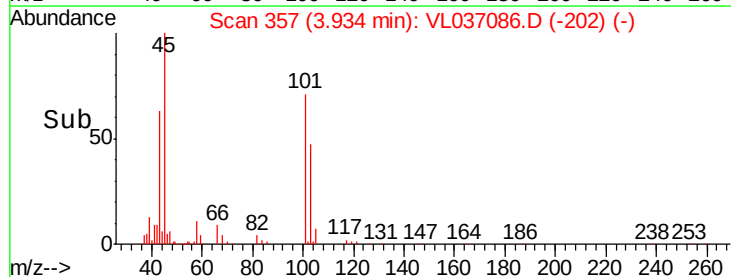
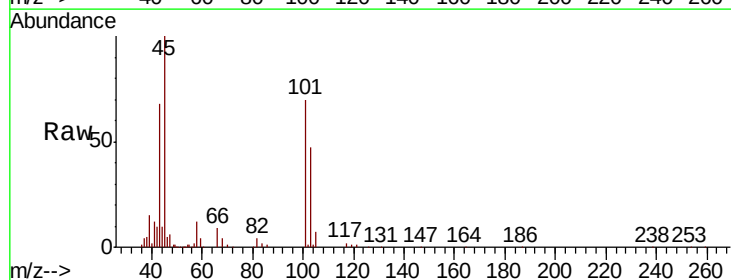
Acq: 2 Jun 2021 1:35

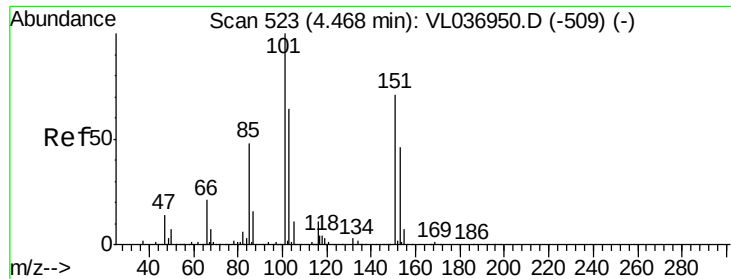
Tgt Ion: 101 Resp: 92925

Ion Ratio Lower Upper

101 100

103 66.9 52.6 79.0





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.037 ppbv

RT: 4.47 min Scan# 523

Delta R.T. -0.00 min

Lab File: VL037086.D

Acq: 2 Jun 2021 1:35

Instrument :

MSVOA_L

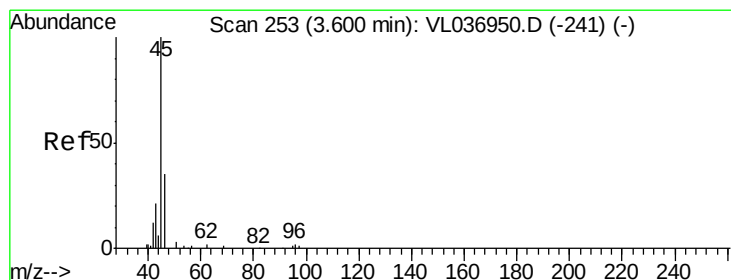
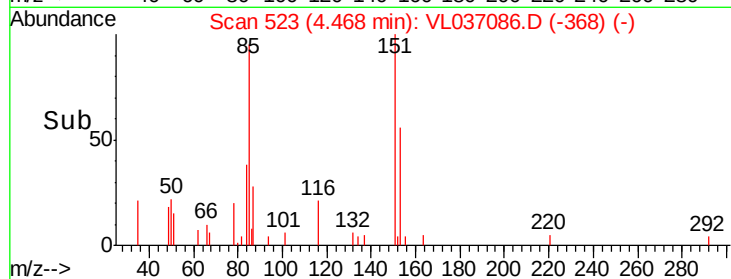
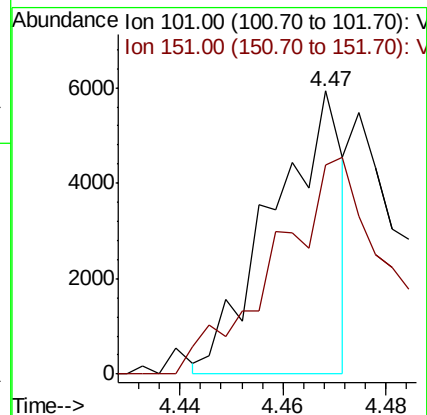
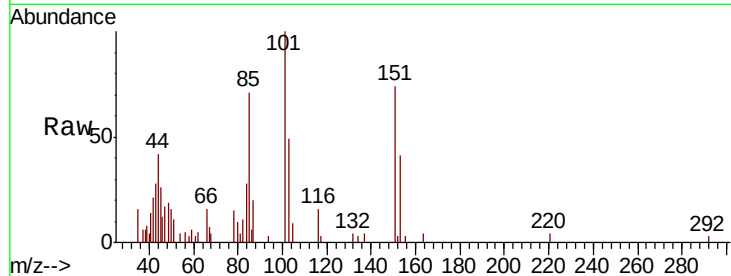
ClientSampleId :

Tot Ion:101 Resp: 5569

Ion Ratio Lower Upper

101 100

151 146.0 57.7 86.5#



#13

Ethanol

Concen: 459.927 ppbv

RT: 3.59 min Scan# 251

Delta R.T. -0.01 min

Lab File: VL037086.D

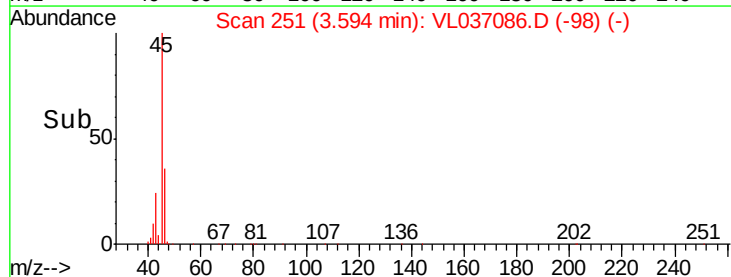
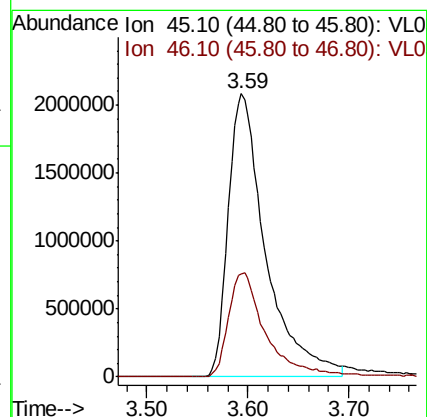
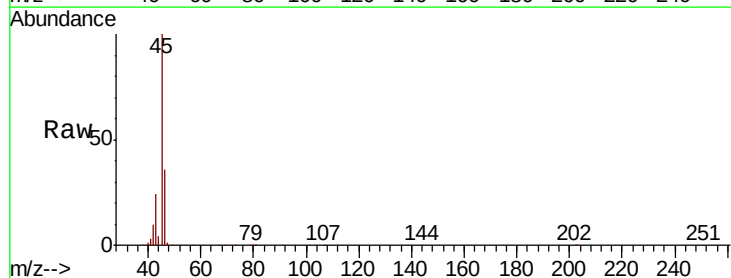
Acq: 2 Jun 2021 1:35

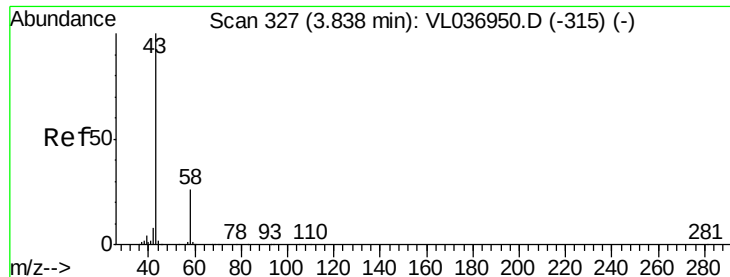
Tgt Ion: 45 Resp: 5423564

Ion Ratio Lower Upper

45 100

46 37.4 16.3 65.3





#15

Acetone

Concen: 17.103 ppbv

RT: 3.83 min Scan# 326

Delta R.T. -0.00 min

Lab File: VL037086.D

Acq: 2 Jun 2021 1:35

Instrument :

MSVOA_L

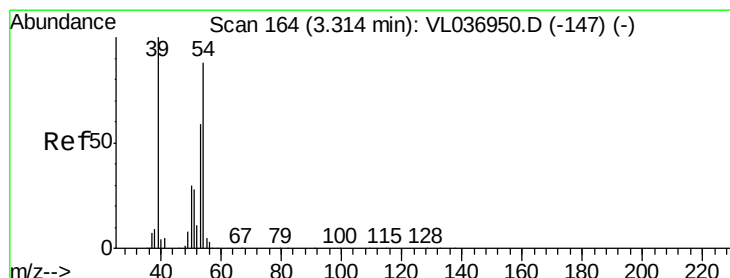
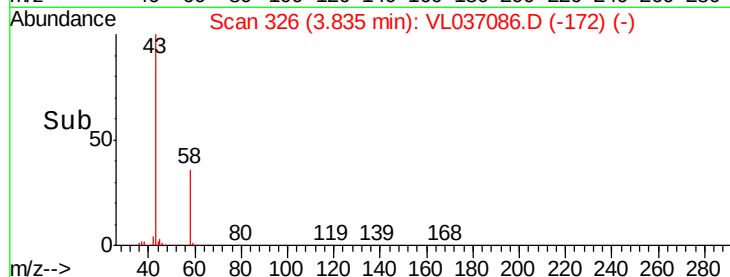
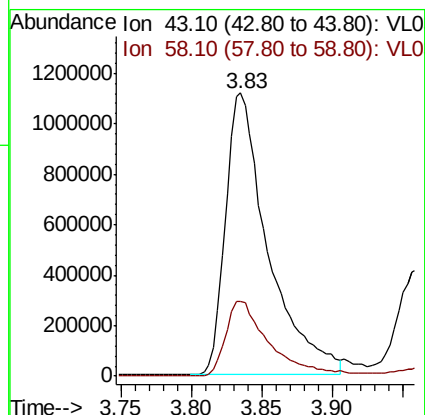
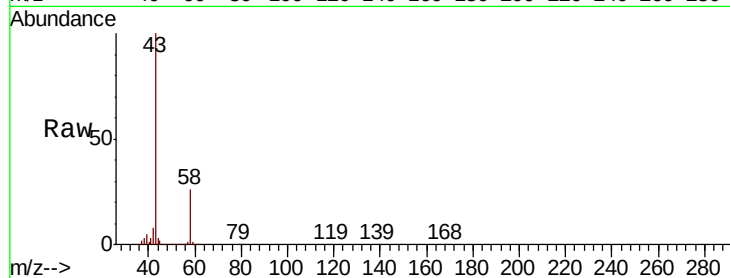
ClientSampleId :

Tot Ion: 43 Resp: 2360157

Ion Ratio Lower Upper

43 100

58 27.8 24.0 36.0



#16

1,3-Butadiene

Concen: 0.088 ppbv

RT: 3.29 min Scan# 157

Delta R.T. -0.02 min

Lab File: VL037086.D

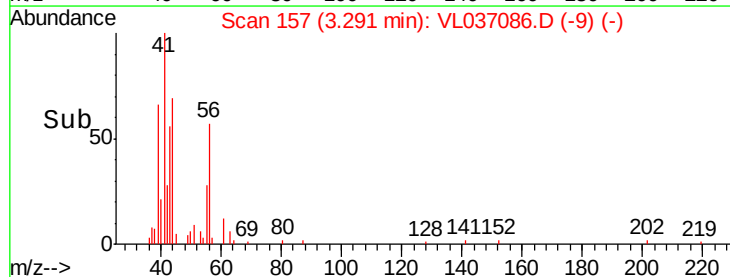
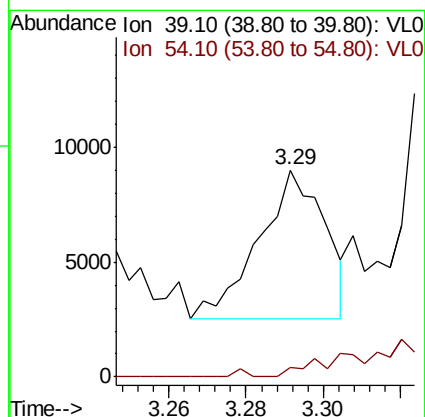
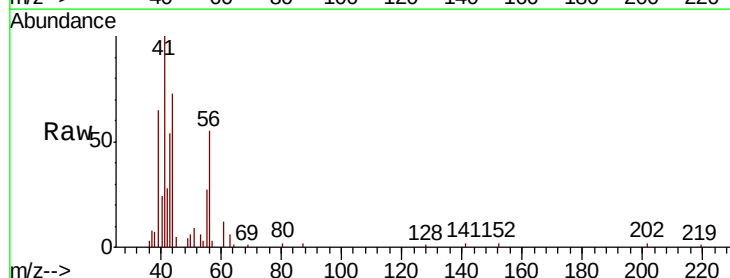
Acq: 2 Jun 2021 1:35

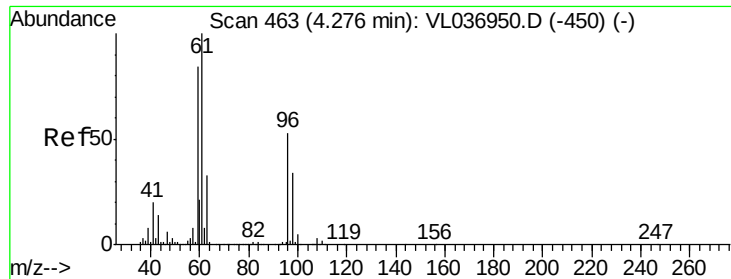
Tgt Ion: 39 Resp: 7581

Ion Ratio Lower Upper

39 100

54 0.0 63.2 94.8#



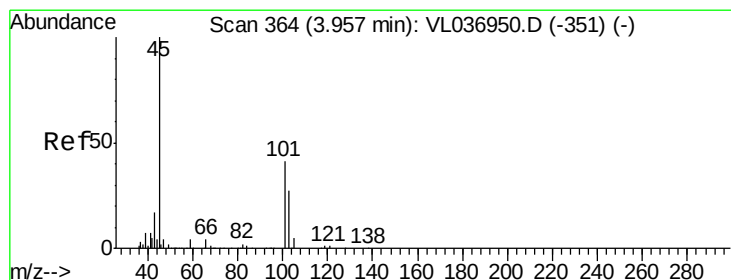
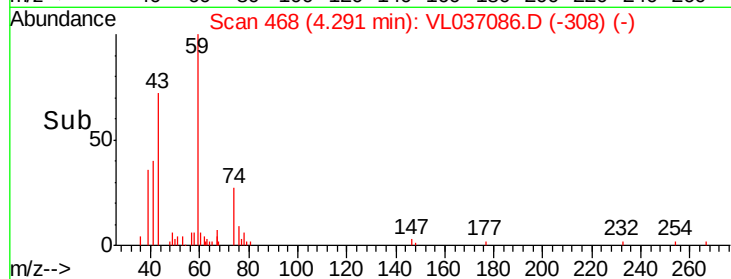
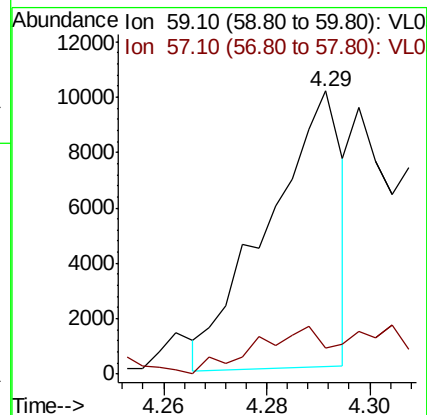
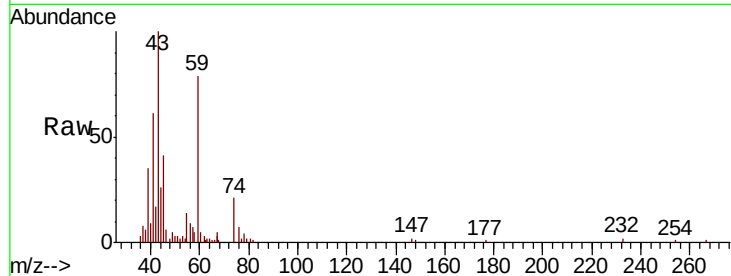


#17

tert-Butyl alcohol
Concen: 0.079 ppbv
RT: 4.29 min Scan# 468
Delta R.T. 0.02 min
Lab File: VL037086.D
Acq: 2 Jun 2021 1:35

Instrument :
MSVOA_L
ClientSampled :

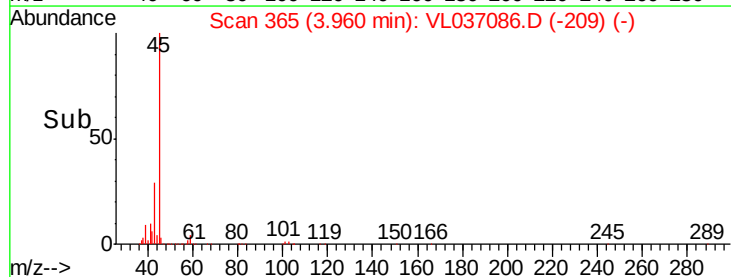
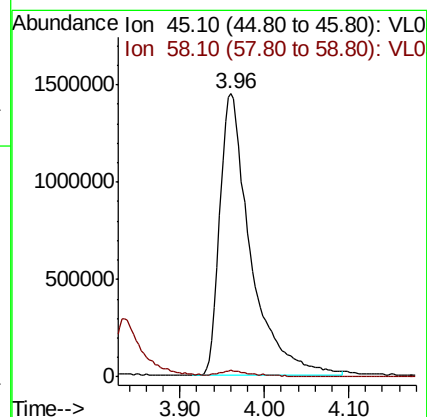
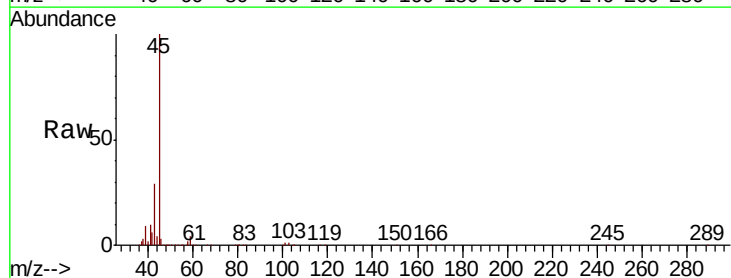
Tot Ion: 59 Resp: 9938
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

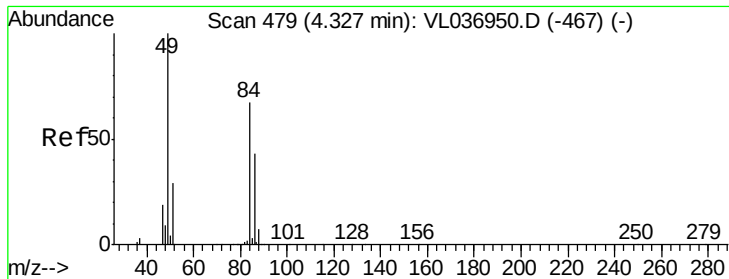


#19

Isopropyl Alcohol
Concen: 49.647 ppbv
RT: 3.96 min Scan# 365
Delta R.T. 0.00 min
Lab File: VL037086.D
Acq: 2 Jun 2021 1:35

Tgt Ion: 45 Resp: 3682744
Ion Ratio Lower Upper
45 100
58 2.4 37.2 55.8#

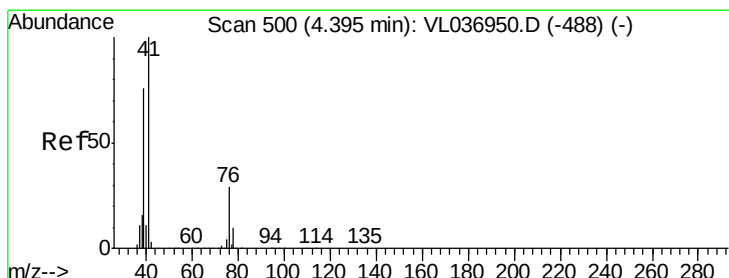
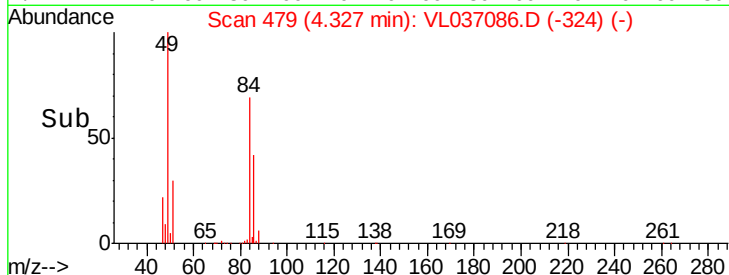
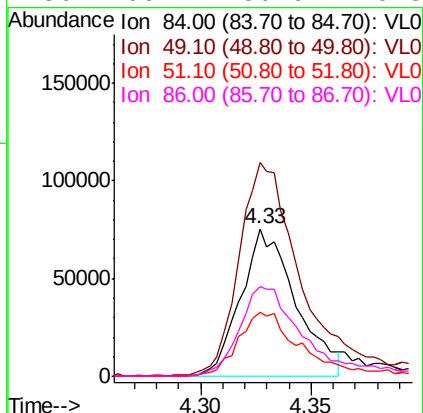
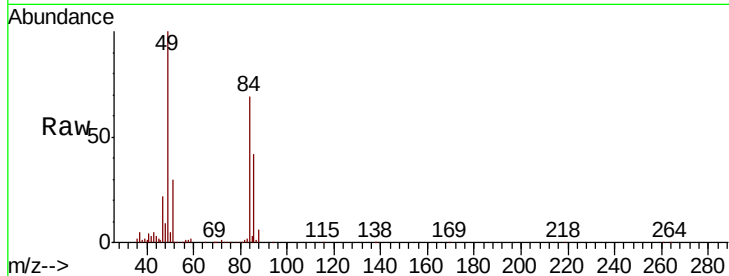




#20
Methylene Chloride
Concen: 1.763 ppbv
RT: 4.33 min Scan# 479
Delta R.T. -0.00 min
Lab File: VL037086.D
Acq: 2 Jun 2021 1:35

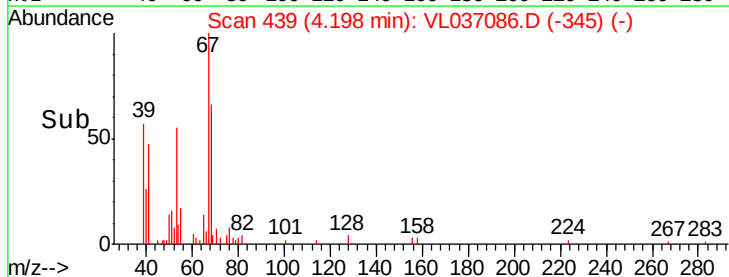
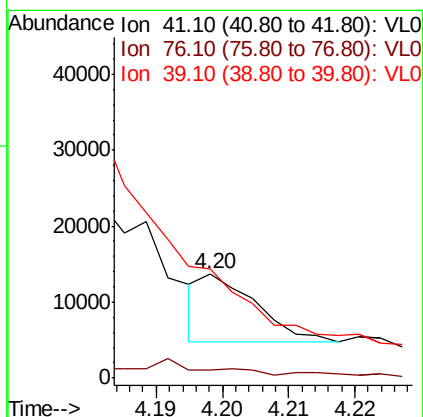
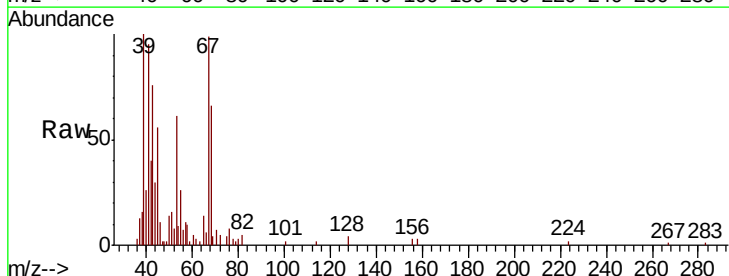
Instrument :
MSVOA_L
ClientSampleId :

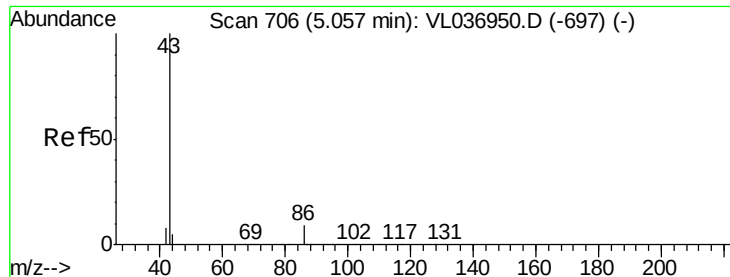
Tot Ion:	84	Resp:	130375
Ion	Ratio	Lower	Upper
84	100		
49	141.9	119.8	179.6
51	42.5	35.1	52.7
86	60.7	50.9	76.3



#21
Allyl Chloride
Concen: 0.049 ppbv
RT: 4.20 min Scan# 439
Delta R.T. -0.20 min
Lab File: VL037086.D
Acq: 2 Jun 2021 1:35

Tgt Ion:	41	Resp:	5073
Ion	Ratio	Lower	Upper
41	100		
76	65.4	24.9	37.3#
39	0.0	63.7	95.5#





#23

Vinyl Acetate

Concen: 0.093 ppbv

RT: 5.05 min Scan# 704

Delta R.T. -0.01 min

Lab File: VL037086.D

Acq: 2 Jun 2021 1:35

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 43 Resp: 20332

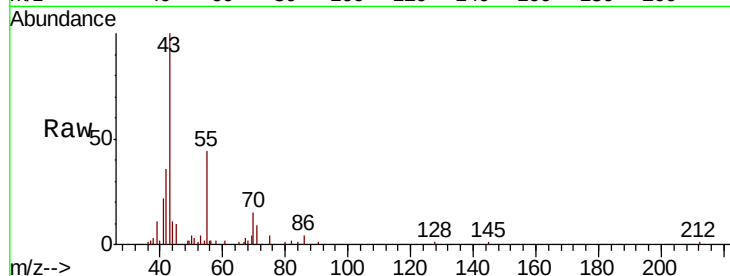
Ion Ratio Lower Upper

43 100

86 0.0 5.8 8.8#

42 60.2 7.4 11.2#

44 0.0 3.3 4.9#

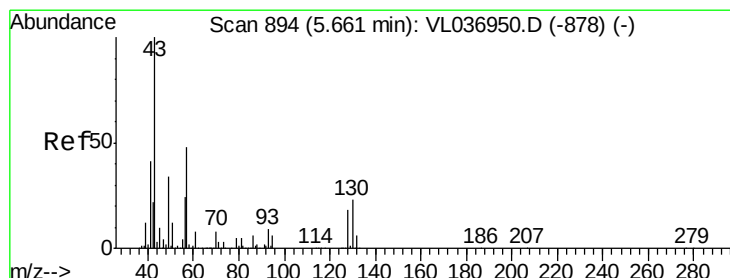
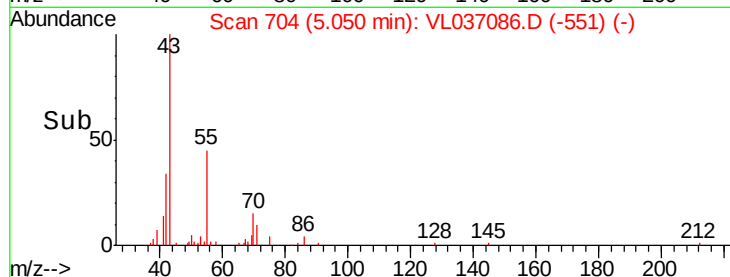
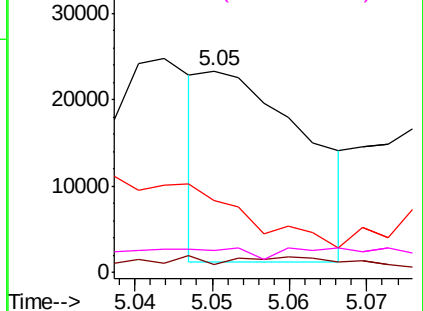


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#25

Ethyl Acetate

Concen: 0.157 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.00 min

Lab File: VL037086.D

Acq: 2 Jun 2021 1:35

Tgt Ion: 43 Resp: 51914

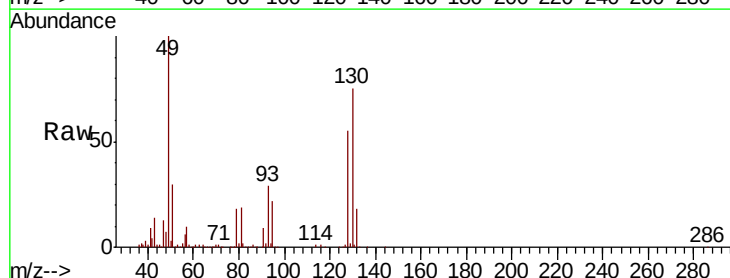
Ion Ratio Lower Upper

43 100

45 28.0 7.8 11.8#

61 0.0 7.8 11.8#

70 0.0 5.6 8.4#

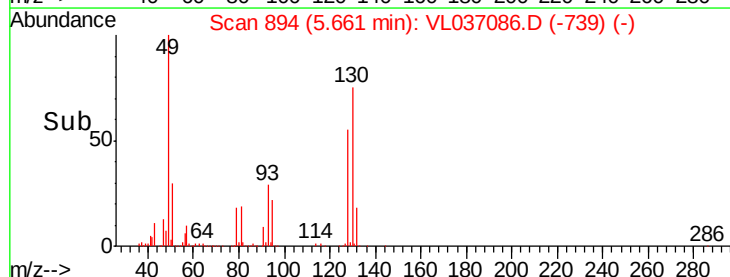
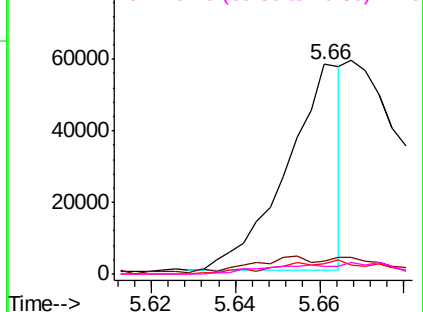


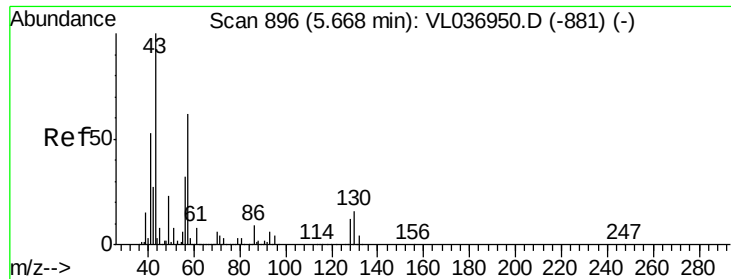
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

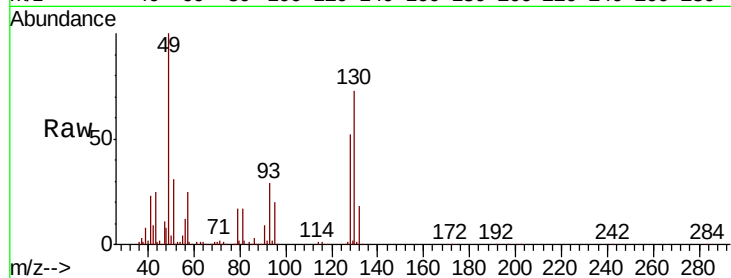




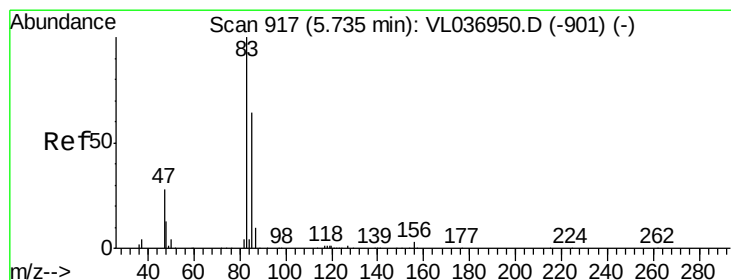
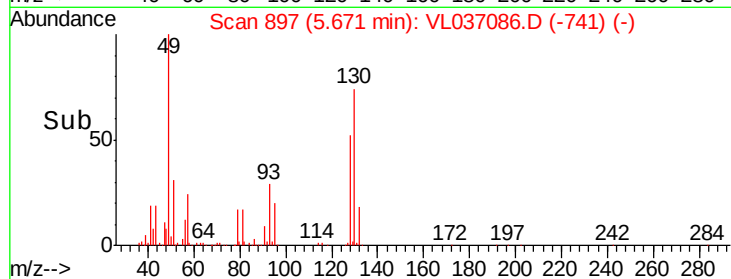
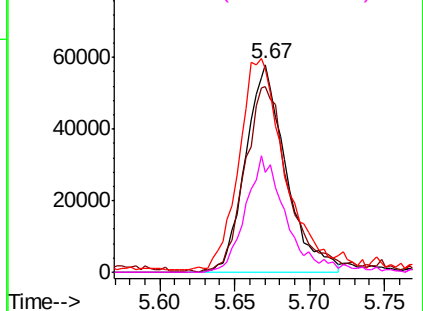
#26
Hexane
Concen: 0.642 ppbv
RT: 5.67 min Scan# 897
Delta R.T. 0.00 min
Lab File: VL037086.D
Acq: 2 Jun 2021 1:35

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 57 Resp: 108763
Ion Ratio Lower Upper
57 100
41 99.6 70.5 105.7
43 119.1 165.8 248.8#
56 57.9 42.2 63.4

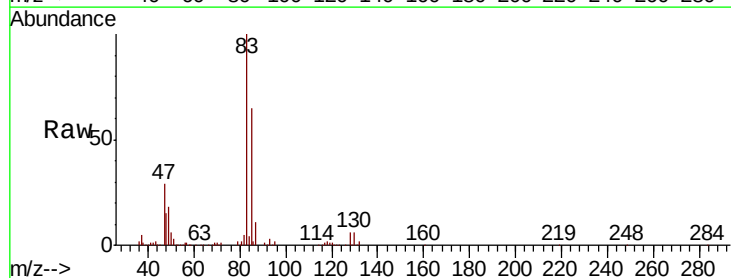


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

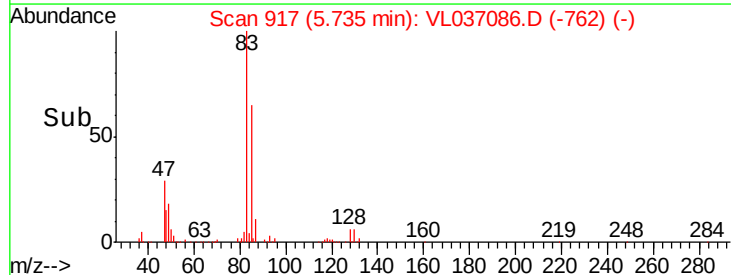
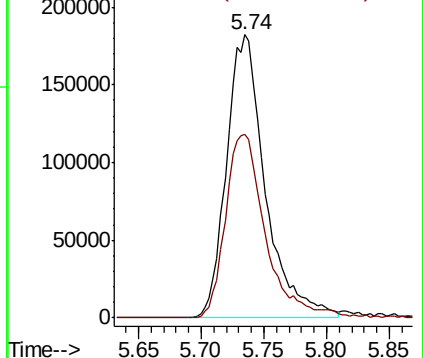


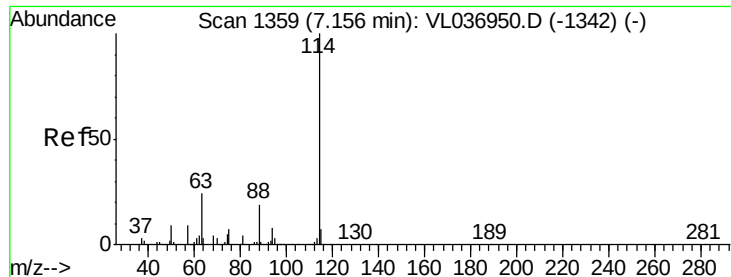
#29
Chloroform
Concen: 1.639 ppbv
RT: 5.74 min Scan# 917
Delta R.T. -0.00 min
Lab File: VL037086.D
Acq: 2 Jun 2021 1:35

Tgt Ion: 83 Resp: 392151
Ion Ratio Lower Upper
83 100
85 64.9 51.1 76.7



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

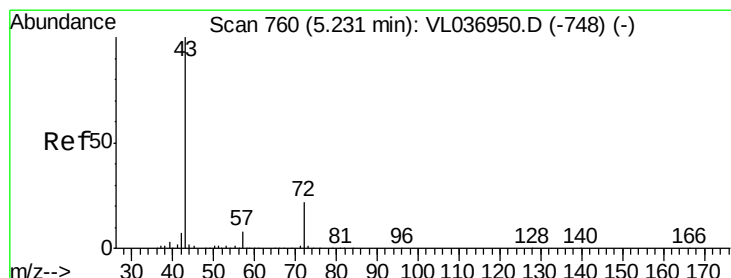
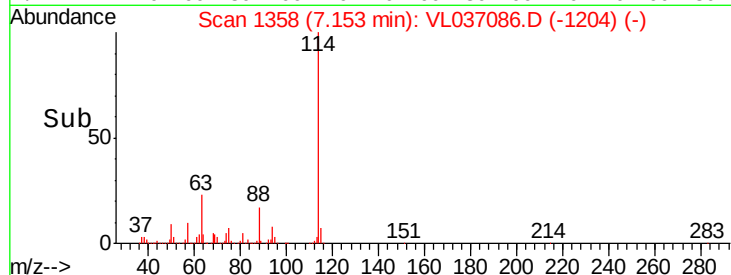
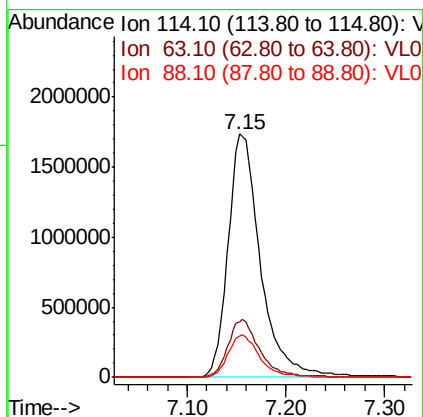
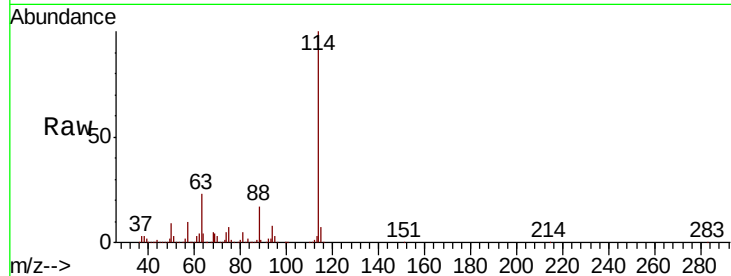




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.15 min Scan# 1358
 Delta R.T. -0.00 min
 Lab File: VL037086.D
 Acq: 2 Jun 2021 1:35

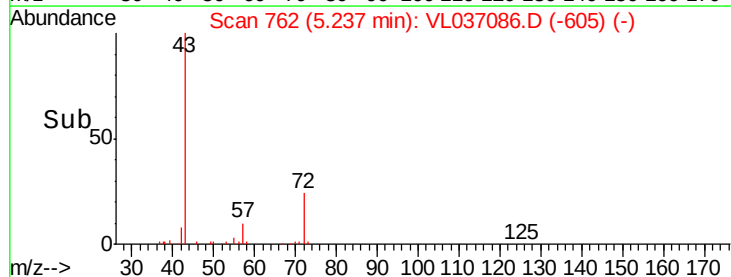
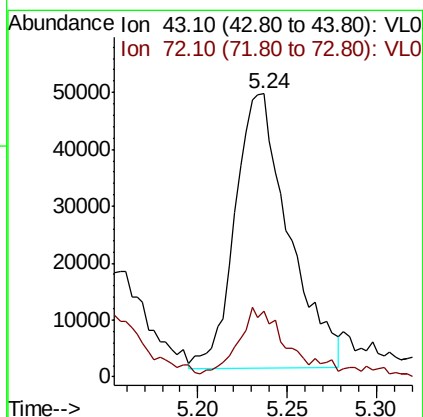
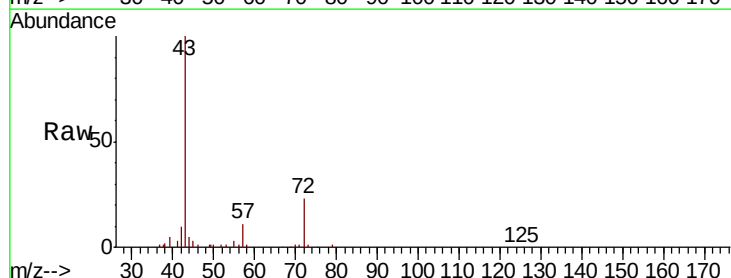
Instrument :
 MSVOA_L
 ClientSampleId :

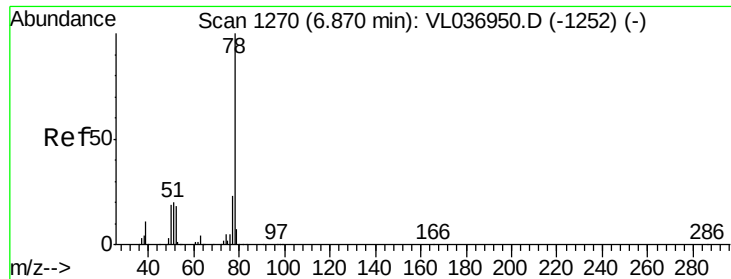
Tot Ion:114 Resp: 3958860
 Ion Ratio Lower Upper
 114 100
 63 23.9 19.6 29.4
 88 17.4 14.6 21.8



#34
 2-Butanone
 Concen: 0.705 ppbv
 RT: 5.24 min Scan# 762
 Delta R.T. 0.01 min
 Lab File: VL037086.D
 Acq: 2 Jun 2021 1:35

Tgt Ion: 43 Resp: 101629
 Ion Ratio Lower Upper
 43 100
 72 26.0 19.0 28.4





#36

Benzene

Concen: 0.079 ppbv

RT: 6.87 min Scan# 1269

Delta R.T. -0.00 min

Lab File: VL037086.D

Acq: 2 Jun 2021 1:35

Instrument :

MSVOA_L

ClientSampled :

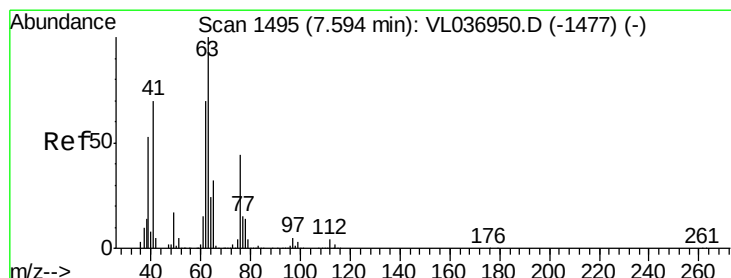
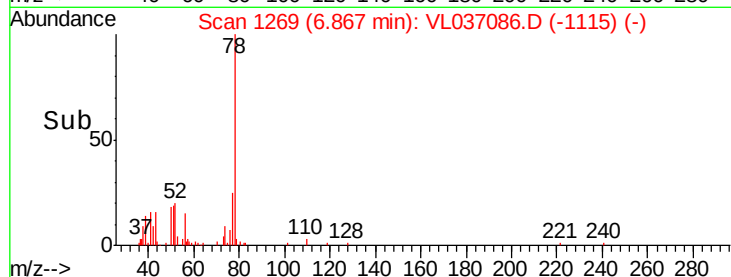
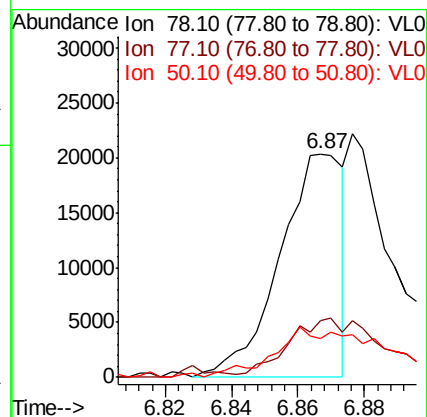
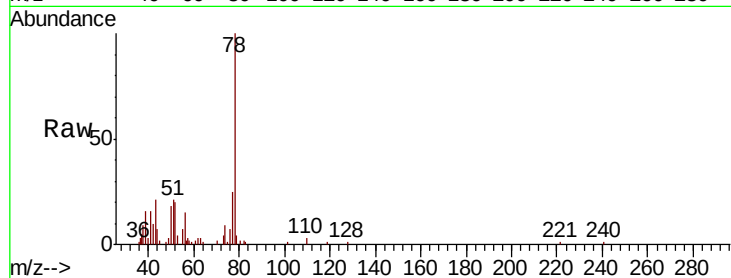
Tot Ion: 78 Resp: 26969

Ion Ratio Lower Upper

78 100

77 19.8 18.6 28.0

50 15.9 15.0 22.4



#39

1,2-Dichloropropane

Concen: 7.043 ppbv

RT: 7.16 min Scan# 1359

Delta R.T. -0.44 min

Lab File: VL037086.D

Acq: 2 Jun 2021 1:35

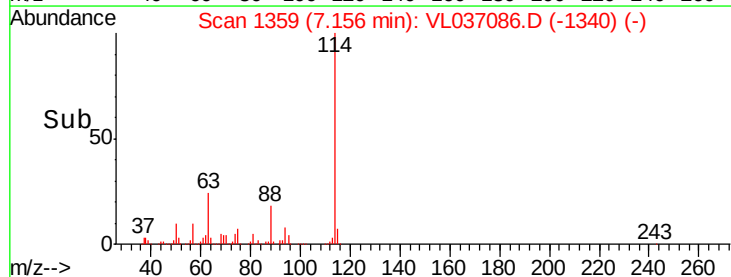
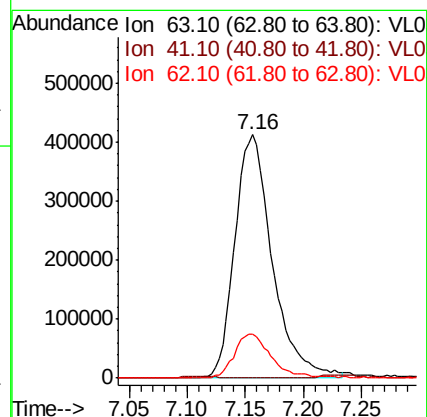
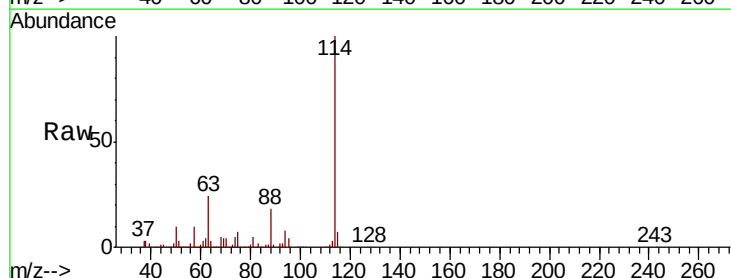
Tgt Ion: 63 Resp: 925125

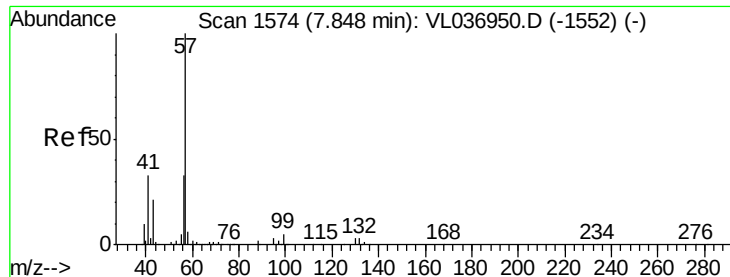
Ion Ratio Lower Upper

63 100

41 0.0 55.7 83.5#

62 18.3 56.2 84.4#

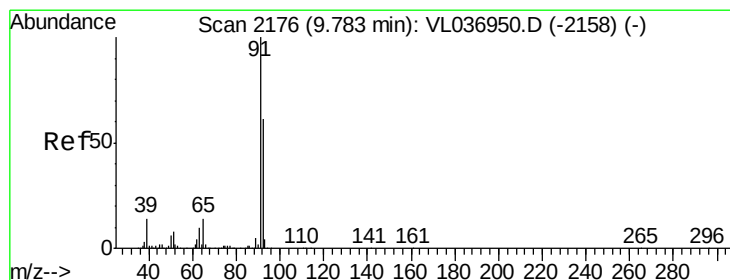
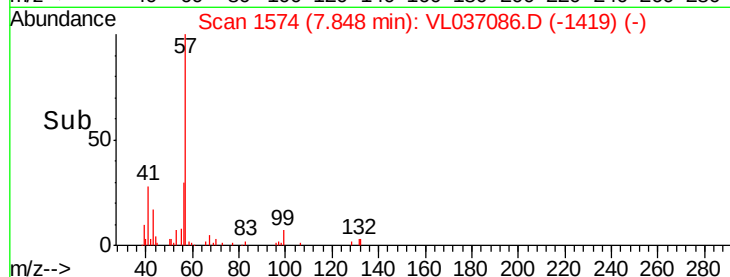
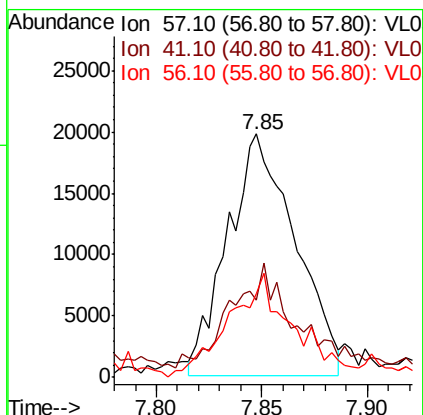
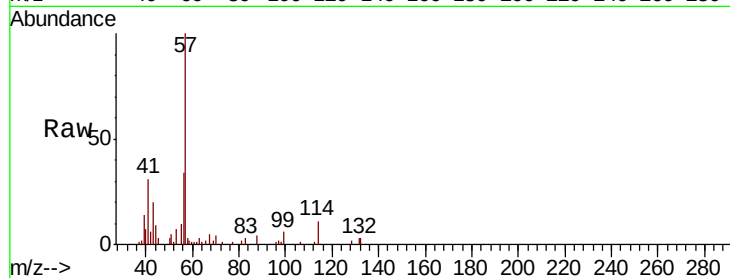




#44
 2,2,4-Trimethylpentane
 Concen: 0.075 ppbv
 RT: 7.85 min Scan# 1574
 Delta R.T. -0.00 min
 Lab File: VL037086.D
 Acq: 2 Jun 2021 1:35

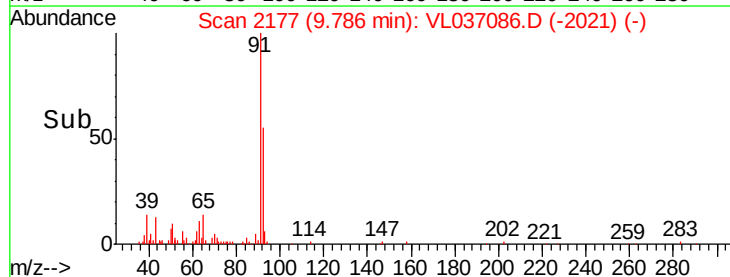
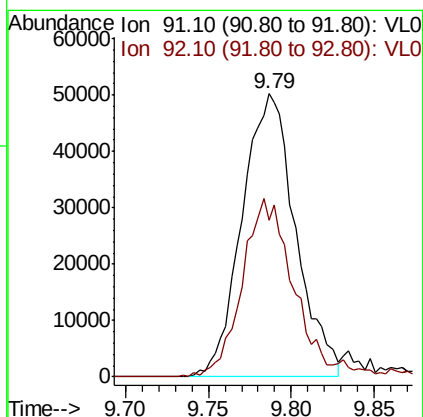
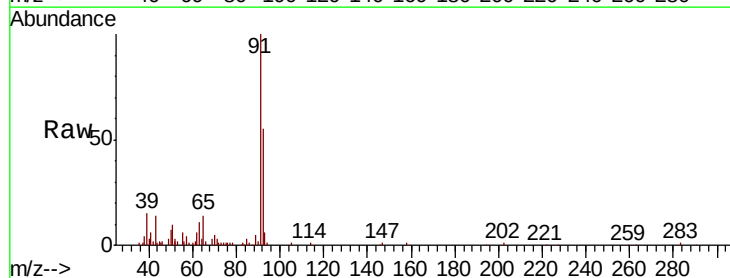
Instrument :
 MSVOA_L
 ClientSampleID :

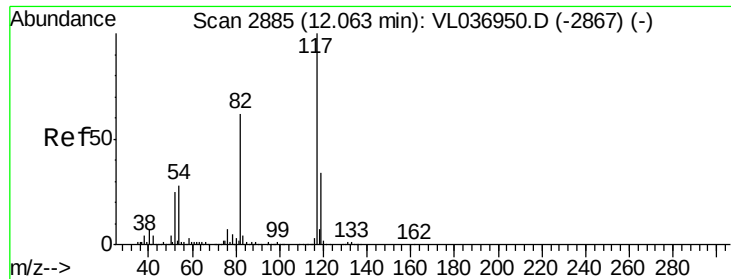
Tot Ion	57	Resp	44066
Ion	Ratio	Lower	Upper
57	100		
41	49.3	27.0	40.4#
56	44.7	25.4	38.2#



#53
 Toluene
 Concen: 0.278 ppbv
 RT: 9.79 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VL037086.D
 Acq: 2 Jun 2021 1:35

Tgt Ion	91	Resp	112782
Ion	Ratio	Lower	Upper
91	100		
92	62.6	49.5	74.3

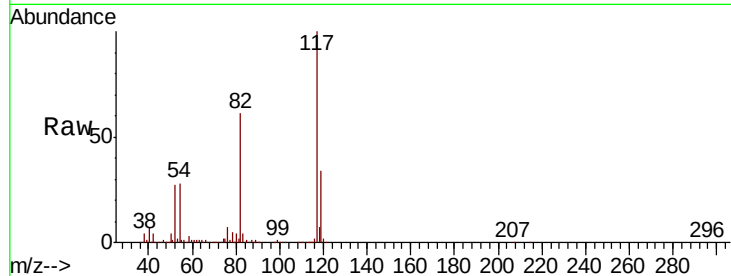




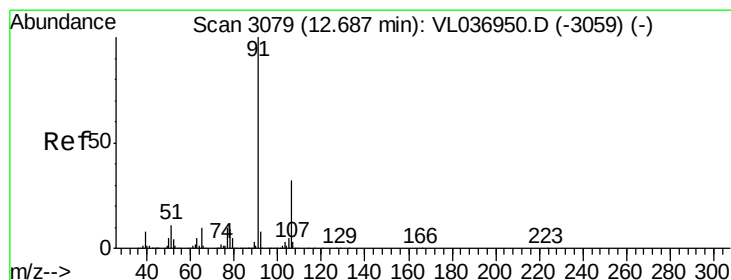
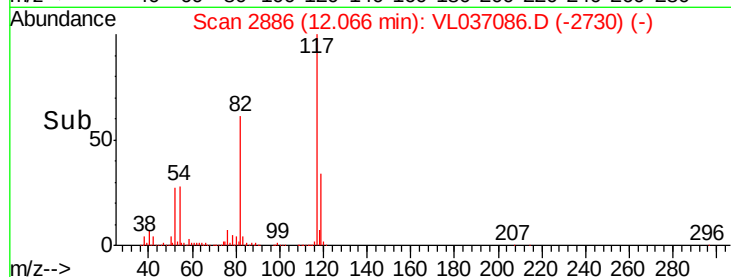
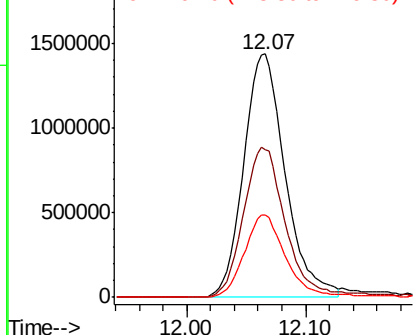
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min Scan# 2886
Delta R.T. 0.00 min
Lab File: VL037086.D
Acq: 2 Jun 2021 1:35

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:117 Resp: 3465718
Ion Ratio Lower Upper
117 100
82 64.6 52.6 79.0
119 34.9 46.6 70.0#

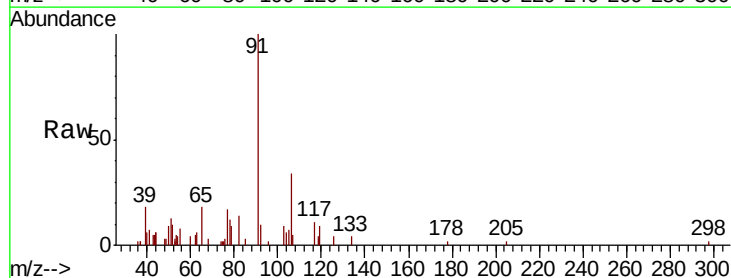


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

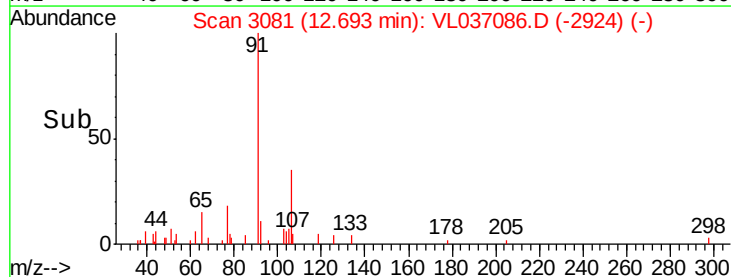
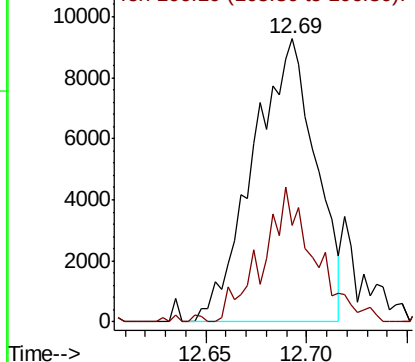


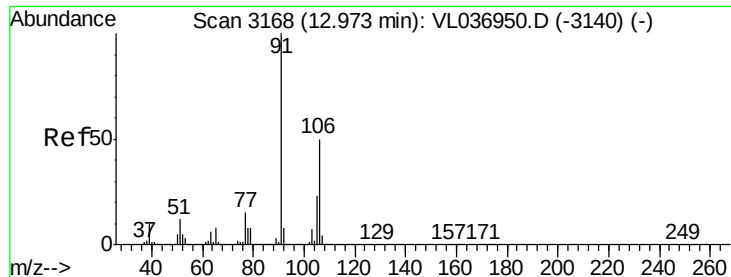
#58
Ethyl Benzene
Concen: 0.041 ppbv
RT: 12.69 min Scan# 3081
Delta R.T. 0.01 min
Lab File: VL037086.D
Acq: 2 Jun 2021 1:35

Tgt Ion: 91 Resp: 20000
Ion Ratio Lower Upper
91 100
106 34.2 25.6 38.4



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





#59

m/p-Xylene

Concen: 0.038 ppbv

RT: 12.97 min Scan# 3168

Delta R.T. -0.00 min

Lab File: VL037086.D

Acq: 2 Jun 2021 1:35

Instrument :

MSVOA_L

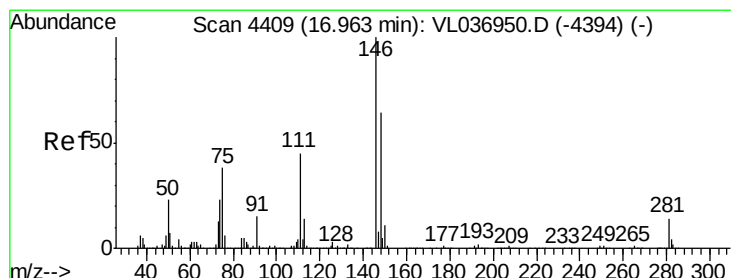
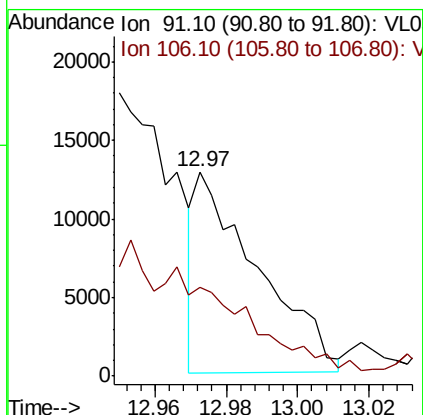
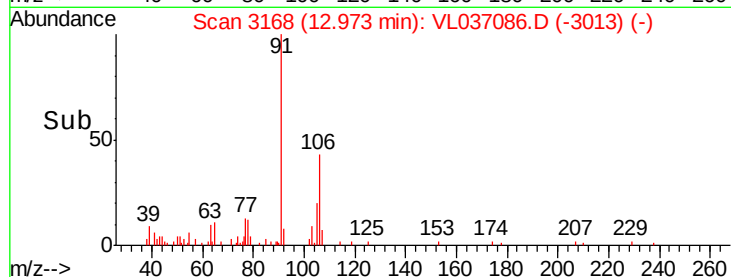
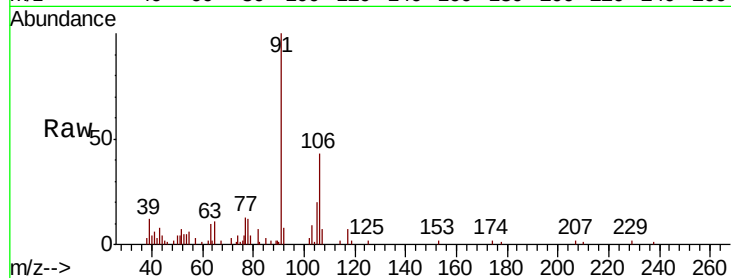
ClientSampled :

Tot Ion: 91 Resp: 15391

Ion Ratio Lower Upper

91 100

106 0.0 37.4 56.2#



#66

Benzyl Chloride

Concen: 0.037 ppbv

RT: 17.09 min Scan# 4449

Delta R.T. 0.13 min

Lab File: VL037086.D

Acq: 2 Jun 2021 1:35

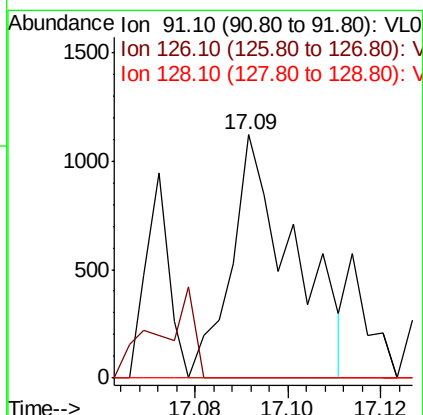
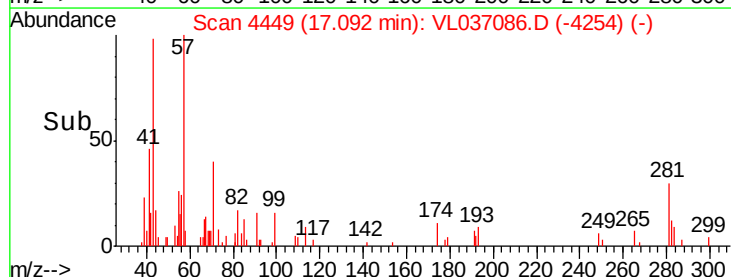
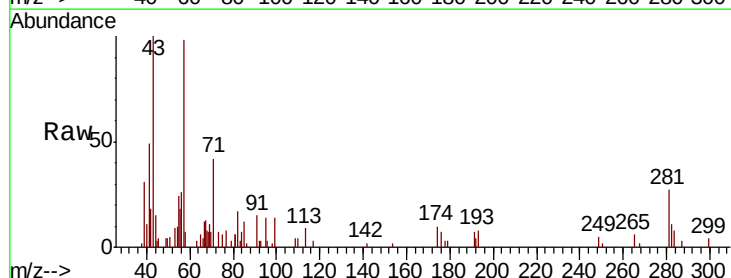
Tgt Ion: 91 Resp: 1036

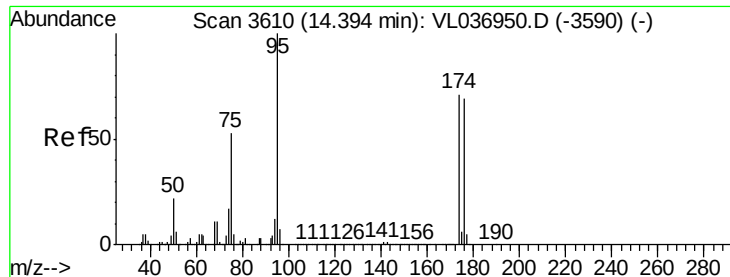
Ion Ratio Lower Upper

91 100

126 26.0 16.5 24.7#

128 6.8 5.5 8.3

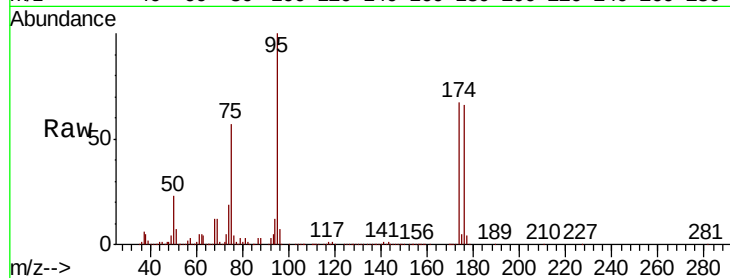




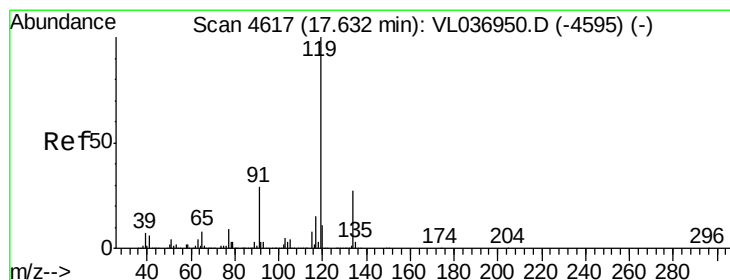
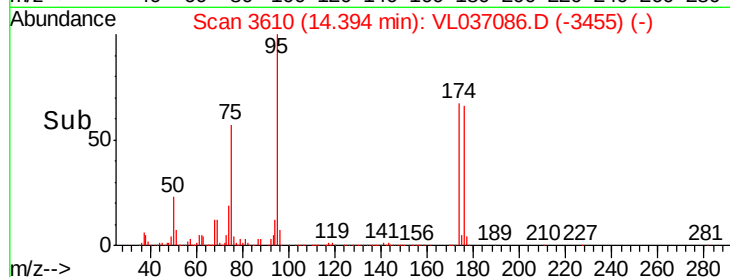
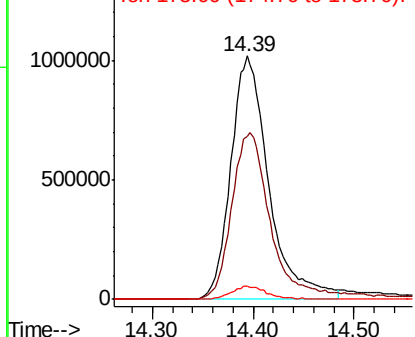
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.222 ppbv
 RT: 14.39 min Scan# 3610
 Delta R.T. -0.00 min
 Lab File: VL037086.D
 Acq: 2 Jun 2021 1:35

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion: 95 Resp: 2661208
 Ion Ratio Lower Upper
 95 100
 174 73.6 58.4 87.6
 175 5.2 4.4 6.6

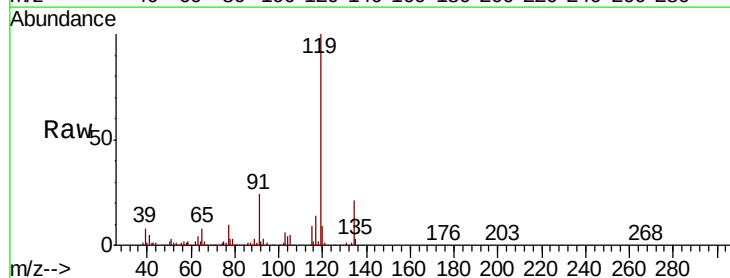


Abundance Ion 95.10 (94.80 to 95.80): VL0
 Ion 174.00 (173.70 to 174.70): V
 Ion 175.00 (174.70 to 175.70): V



#69
 p-Isopropyltoluene
 Concen: 0.472 ppbv
 RT: 17.64 min Scan# 4619
 Delta R.T. 0.01 min
 Lab File: VL037086.D
 Acq: 2 Jun 2021 1:35

Tgt Ion: 119 Resp: 276634
 Ion Ratio Lower Upper
 119 100
 134 26.5 21.2 31.8
 91 30.5 22.2 33.4



Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): VL0

