

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051220\
 Data File : VL034992.D
 Acq On : 12 May 2020 18:23
 Operator : SY/AP
 Sample : L2567-03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2

Quant Time: May 13 01:09:11 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed May 06 14:49:39 2020
 QLast Update : Wed May 06 14:49:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1048444	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2540070	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	2352647	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.45	95	1935882	10.17	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.70%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.01	85	41326	0.278	ppbv 96
3) Chlorodifluoromethane	2.94	51	57353	0.479	ppbv # 85
4) Chloromethane	3.10	50	40465	0.590	ppbv # 83
9) Propene	3.16	41	1009902	19.442	ppbv 97
10) Heptane	8.13	43	1456402	11.192	ppbv 98
11) Trichlorofluoromethane	3.92	101	55646	0.363	ppbv # 83
12) 1,1,2-Trichlorotrifluoroet	4.46	101	3627	0.033	ppbv # 1
13) Ethanol	3.58	45	2699714	157.508	ppbv 99
15) Acetone	3.81	43	11270366	81.310	ppbv 99
16) 1,3-Butadiene	3.27	39	211856	3.552	ppbv # 20
17) tert-Butyl alcohol	4.28	59	810607	6.573	ppbv # 71
19) Isopropyl Alcohol	3.95	45	1256951	13.598	ppbv # 1
20) Methylene Chloride	4.32	84	73748	1.607	ppbv 95
21) Allyl Chloride	4.34	41	303108	3.871	ppbv # 53
23) Vinyl Acetate	5.04	43	757670	4.311	ppbv # 1
25) Ethyl Acetate	5.67	43	2199775	9.448	ppbv # 83
26) Hexane	5.67	57	2485483	24.624	ppbv # 48
30) Cyclohexane	7.13	84	654427	8.402	ppbv 98
31) cis-1,2-Dichloroethene	5.54	61	10405	0.106	ppbv # 68
34) 2-Butanone	5.23	43	156912	0.994	ppbv 100
35) Carbon Tetrachloride	7.02	117	6197	0.039	ppbv # 96
36) Benzene	6.89	78	1381995	6.599	ppbv 99
37) 1,2-Dichloroethane	6.30	62	3643	0.028	ppbv # 82
38) Trichloroethene	7.85	130	153388	1.891	ppbv 90
39) 1,2-Dichloropropane	7.18	63	670856	7.991	ppbv # 23
40) 1,4-Dioxane	7.86	88	705	0.021	ppbv # 1
41) Tetrahydrofuran	6.04	42	123680	1.488	ppbv 96
42) Bromodichloromethane	7.79	83	81786	0.469	ppbv # 24
43) Methyl Methacrylate	8.03	69	2595	0.029	ppbv # 1
44) 2,2,4-Trimethylpentane	7.87	57	2263536	6.080	ppbv # 80
50) 4-Methyl-2-Pentanone	8.76	43	81355	0.361	ppbv 99
51) 2-Hexanone	10.13	43	277920	1.578	ppbv # 31
52) Tetrachloroethene	11.25	164	606871	8.150	ppbv 97
53) Toluene	9.83	91	12664346	57.047	ppbv # 83
58) Ethyl Benzene	12.74	91	2469958	8.490	ppbv 99
59) m/p-Xylene	12.99	91	6233024	24.351	ppbv # 61
60) o-Xylene	13.72	91	2470474	9.781	ppbv 100
61) Styrene	13.56	104	323801	2.026	ppbv # 21
62) Isopropylbenzene	14.70	105	167176	0.443	ppbv 92
64) n-propylbenzene	15.60	120	72216	0.747	ppbv # 1
65) tert-Butylbenzene	16.80	119	237118	0.725	ppbv # 72

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Instrument :
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ClientSampleId :
IA-2

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050620AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed May 06 14:49:39 2020
QLast Update : Wed May 06 14:49:39 2020
Response via : Initial Calibration

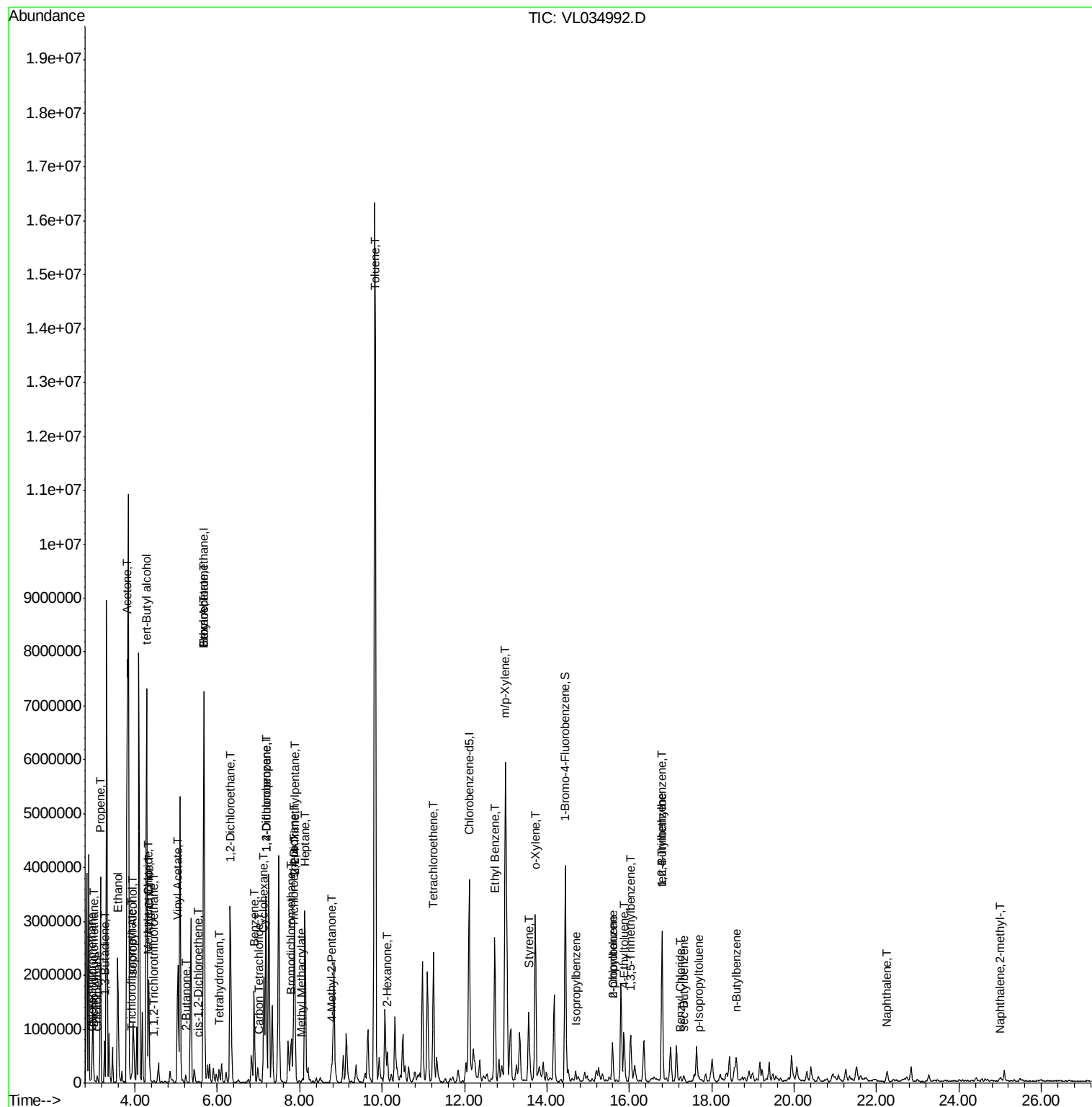
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
66) Benzyl Chloride	17.24	91	41597	0.375	ppbv #	67
67) sec-Butylbenzene	17.33	105	46137	0.099	ppbv #	71
69) p-Isopropyltoluene	17.69	119	28044	0.074	ppbv #	60
70) n-Butylbenzene	18.59	91	123429	0.307	ppbv #	76
71) 2-Chlorotoluene	15.59	91	754400	2.650	ppbv #	45
72) 4-Ethyltoluene	15.87	105	700069	2.484	ppbv	98
73) 1,3,5-Trimethylbenzene	16.03	105	613638	2.238	ppbv	98
74) 1,2,4-Trimethylbenzene	16.79	105	2155073	7.199	ppbv #	77
79) Naphthalene	22.26	128	163319	0.701	ppbv #	93
80) Naphthalene,2-methyl-	25.01	142	26856	0.469	ppbv #	78

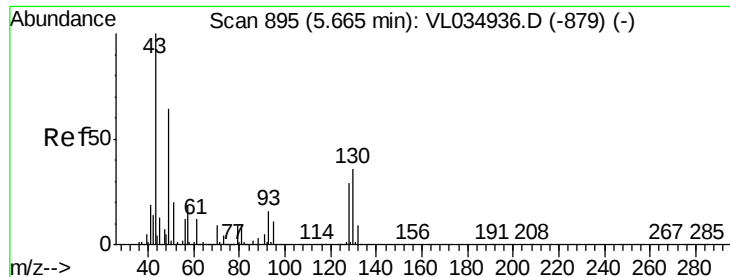
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.00 min

Lab File: VL034992.D

Acq: 12 May 2020 18:23

Instrument :

MSVOA_L

ClientSampleId :

IA-2

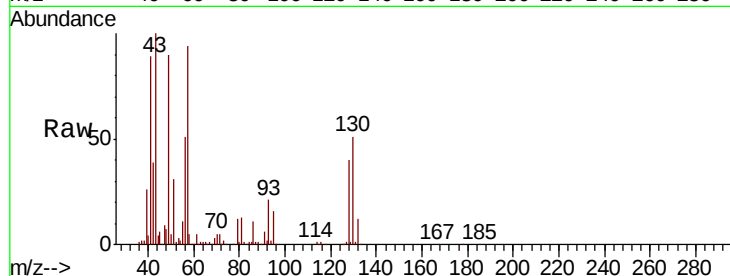
Tot Ion: 49 Resp: 1048444

Ion Ratio Lower Upper

49 100

128 44.6 22.1 66.5

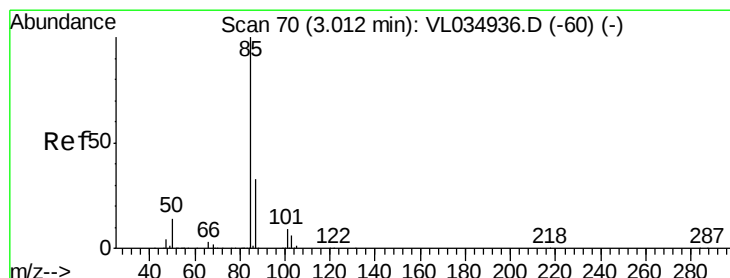
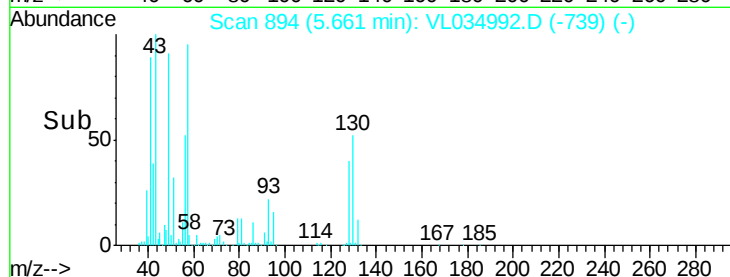
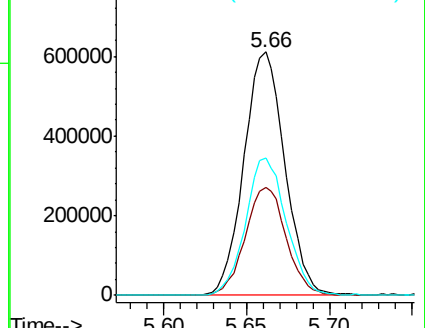
130 56.3 29.1 87.3



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: 0.278 ppbv

RT: 3.01 min Scan# 68

Delta R.T. -0.01 min

Lab File: VL034992.D

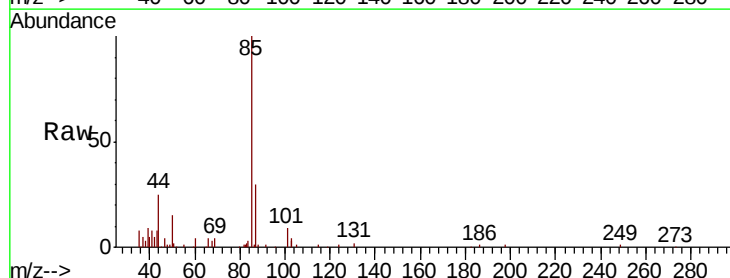
Acq: 12 May 2020 18:23

Tgt Ion: 85 Resp: 41326

Ion Ratio Lower Upper

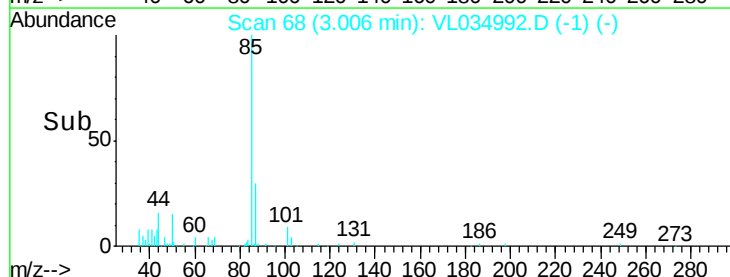
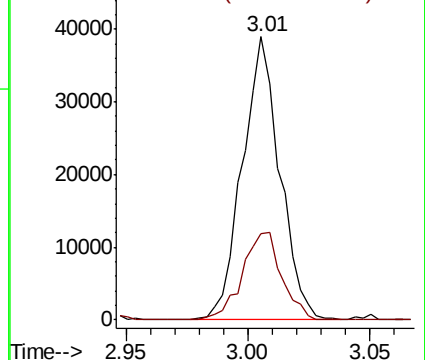
85 100

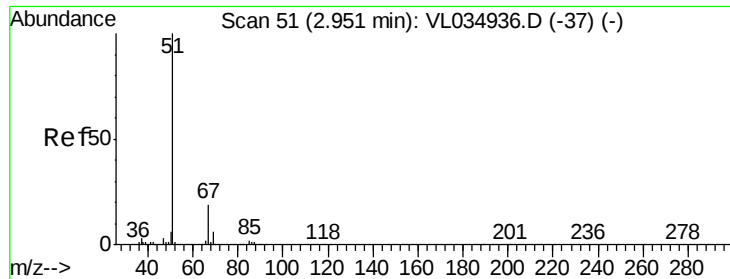
87 30.3 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

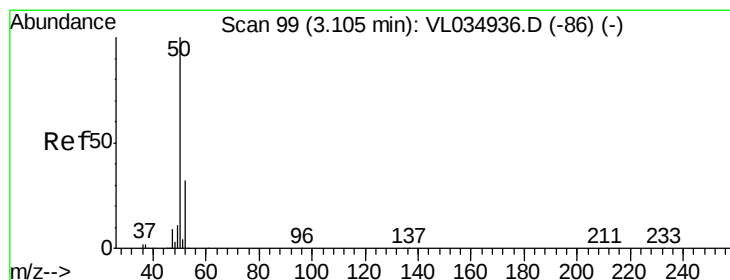
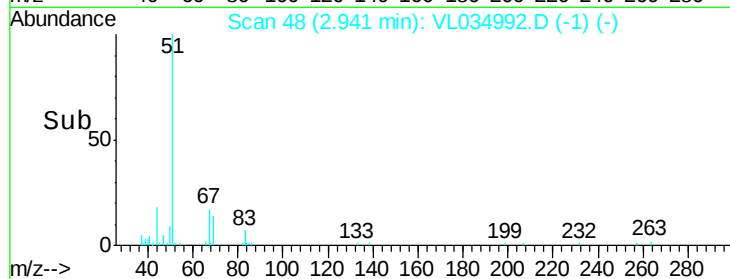
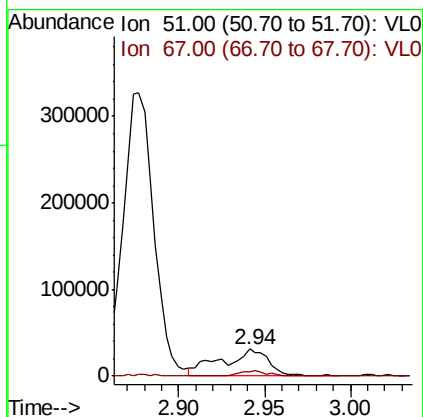
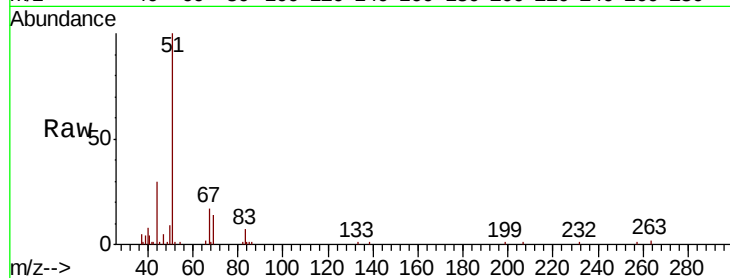




#3
Chlorodifluoromethane
Concen: 0.479 ppbv
RT: 2.94 min Scan# 48
Delta R.T. -0.01 min
Lab File: VL034992.D
Acq: 12 May 2020 18:23

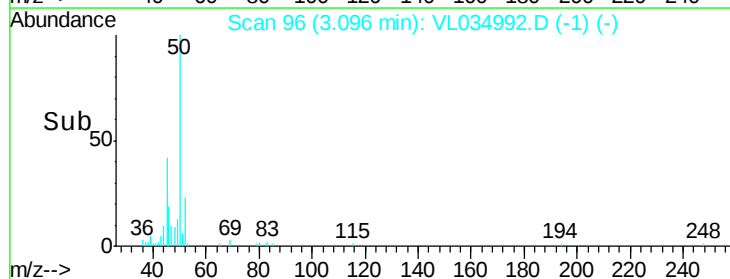
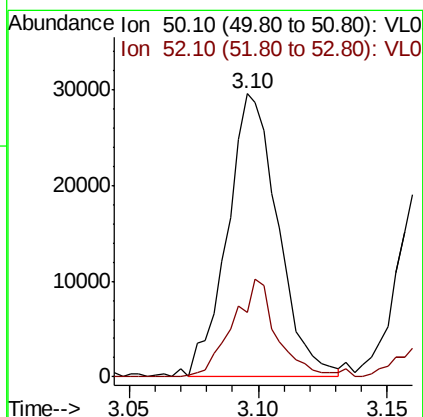
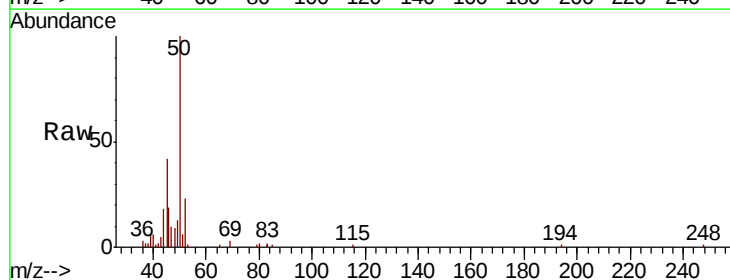
Instrument :
MSVOA_L
ClientSampleId :
IA-2

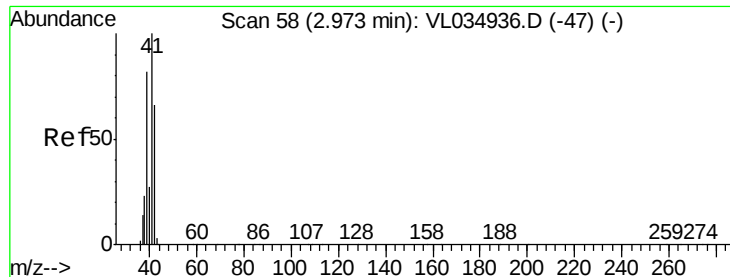
Tot Ion: 51 Resp: 57353
Ion Ratio Lower Upper
51 100
67 11.8 15.0 22.6#



#4
Chloromethane
Concen: 0.590 ppbv
RT: 3.10 min Scan# 96
Delta R.T. -0.01 min
Lab File: VL034992.D
Acq: 12 May 2020 18:23

Tgt Ion: 50 Resp: 40465
Ion Ratio Lower Upper
50 100
52 22.4 25.4 38.2#





#9

Propene

Concen: 19.442 ppbv

RT: 3.16 min Scan# 117

Delta R.T. 0.19 min

Lab File: VL034992.D

Acq: 12 May 2020 18:23

Instrument :

MSVOA_L

ClientSampleId :

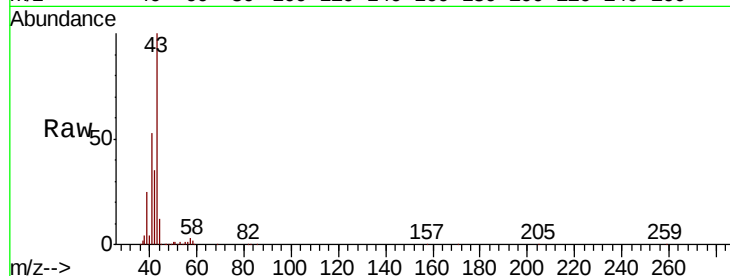
IA-2

Tot Ion: 41 Resp: 1009902

Ion Ratio Lower Upper

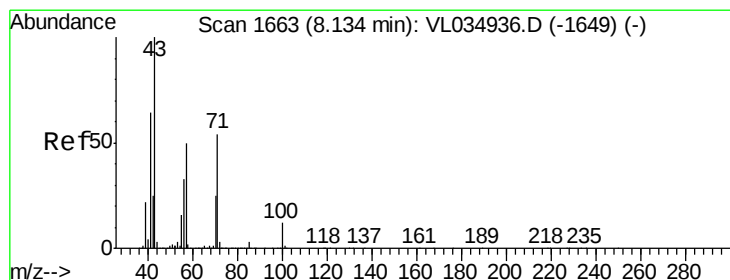
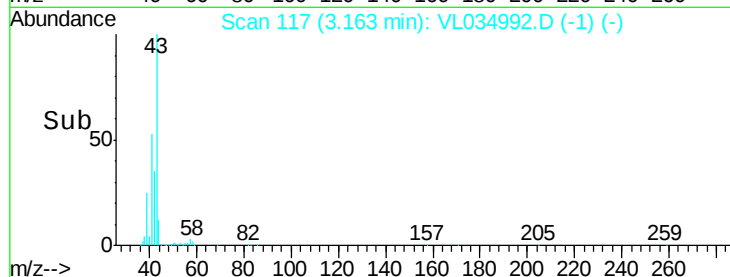
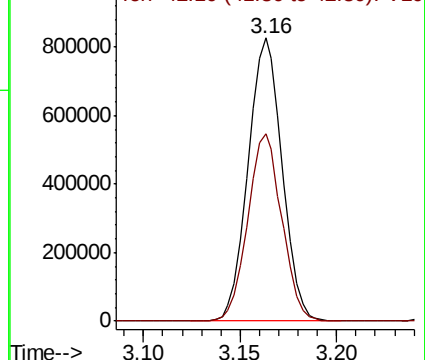
41 100

42 65.9 54.5 81.7



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 11.192 ppbv

RT: 8.13 min Scan# 1661

Delta R.T. -0.01 min

Lab File: VL034992.D

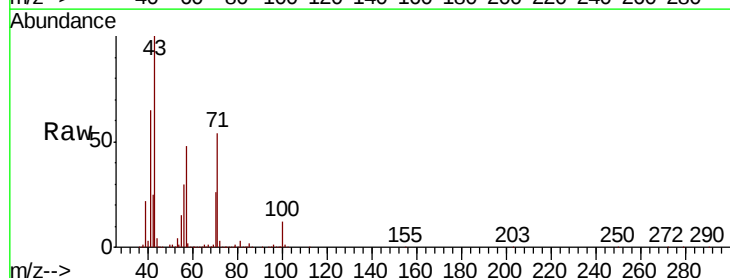
Acq: 12 May 2020 18:23

Tgt Ion: 43 Resp: 1456402

Ion Ratio Lower Upper

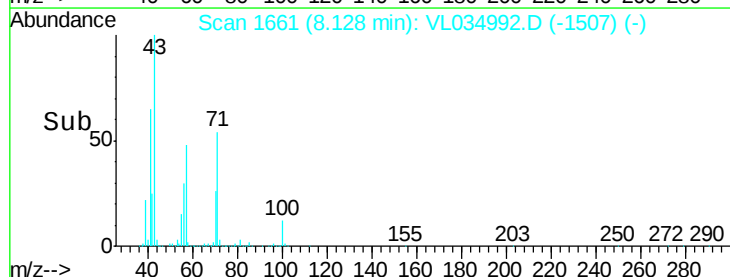
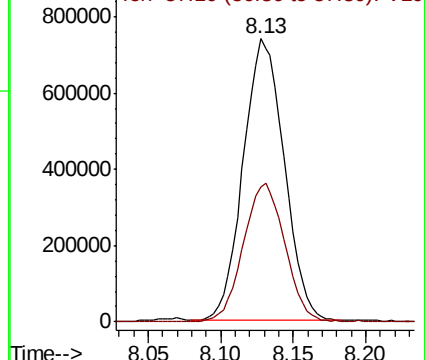
43 100

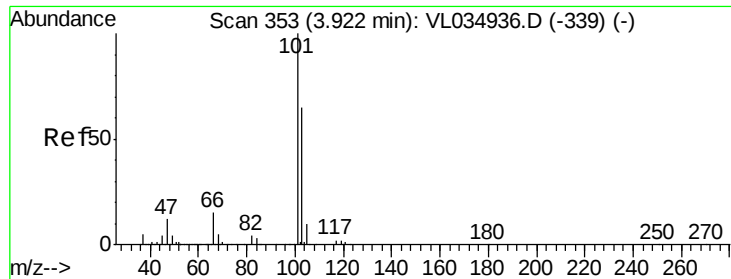
57 49.8 41.1 61.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#11

Trichlorofluoromethane

Concen: 0.363 ppbv

RT: 3.92 min Scan# 351

Delta R.T. -0.01 min

Lab File: VL034992.D

Acq: 12 May 2020 18:23

Instrument :

MSVOA_L

ClientSampleId :

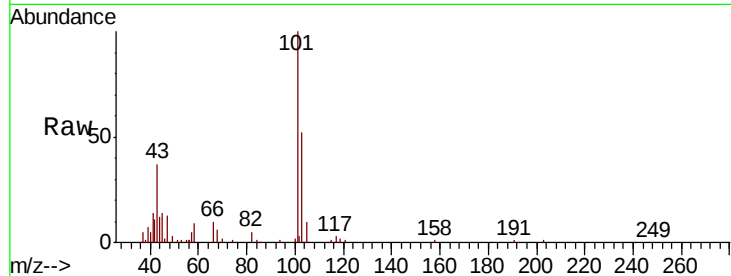
IA-2

Tot Ion:101 Resp: 55646

Ion Ratio Lower Upper

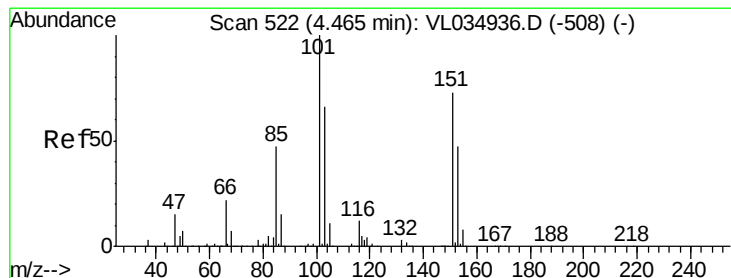
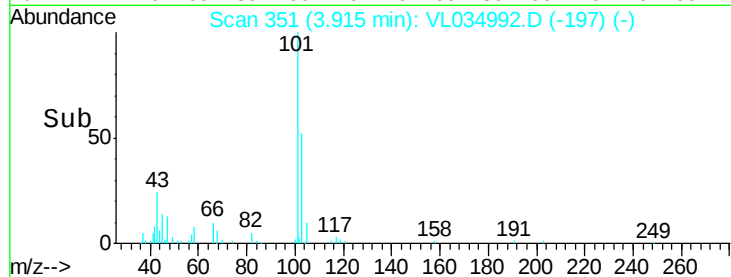
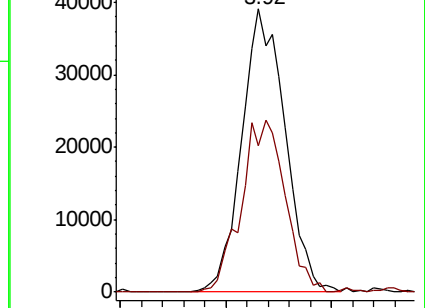
101 100

103 51.6 51.9 77.9#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.033 ppbv

RT: 4.46 min Scan# 521

Delta R.T. -0.00 min

Lab File: VL034992.D

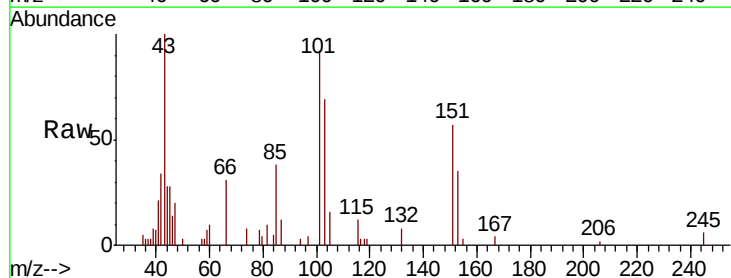
Acq: 12 May 2020 18:23

Tgt Ion:101 Resp: 3627

Ion Ratio Lower Upper

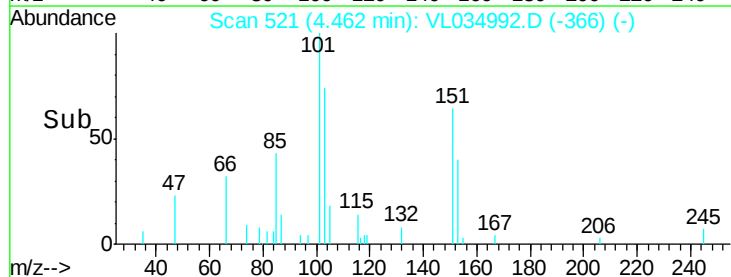
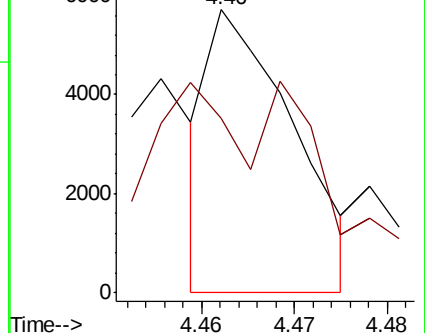
101 100

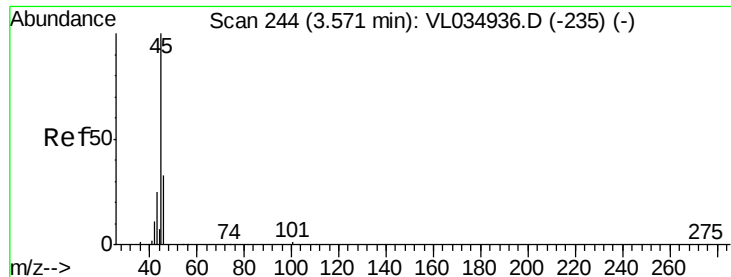
151 174.6 57.6 86.4#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

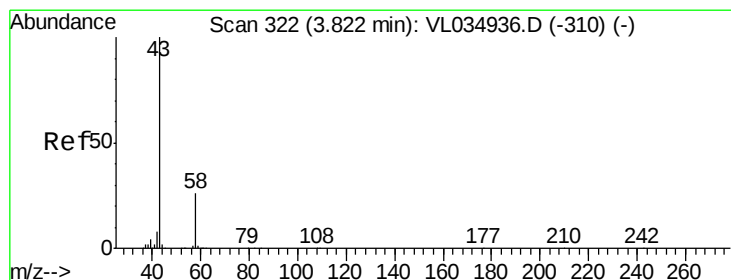
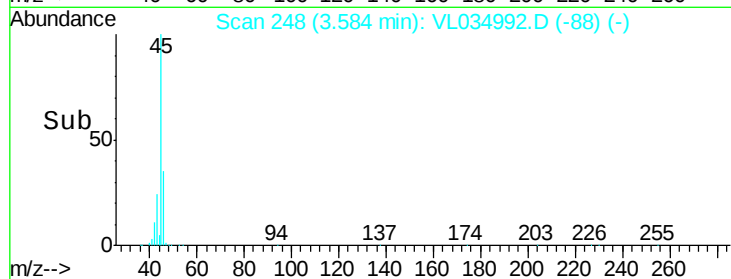
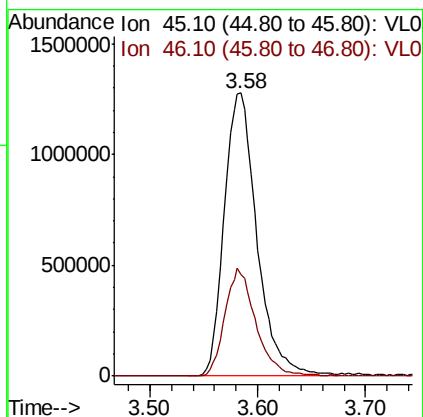
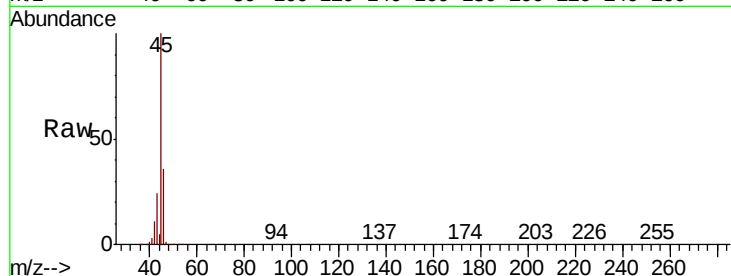




#13
Ethanol
Concen: 157.508 ppbv
RT: 3.58 min Scan# 248
Delta R.T. 0.01 min
Lab File: VL034992.D
Acq: 12 May 2020 18:23

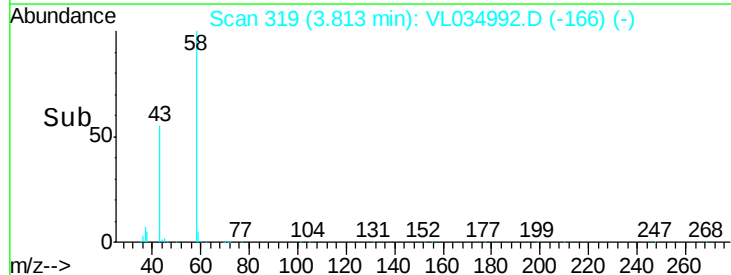
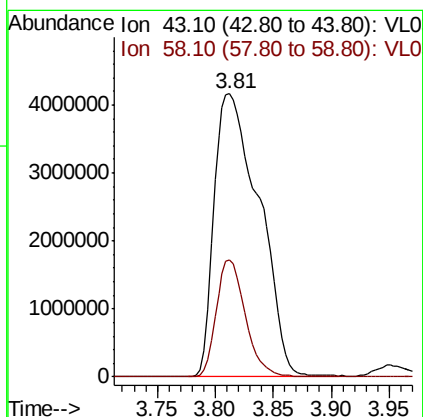
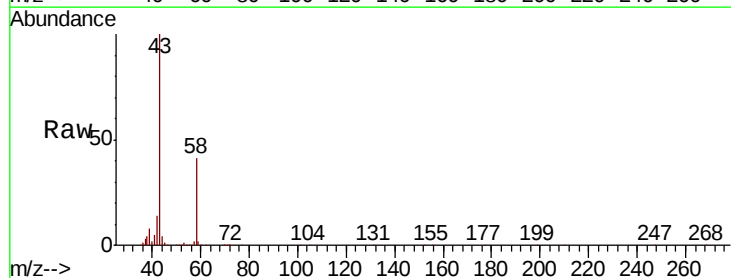
Instrument :
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ClientSampled :
IA-2

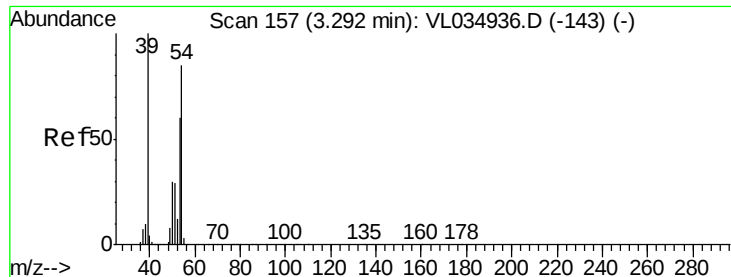
Tot Ion: 45 Resp: 2699714
Ion Ratio Lower Upper
45 100
46 36.5 14.3 57.3



#15
Acetone
Concen: 81.310 ppbv
RT: 3.81 min Scan# 319
Delta R.T. -0.01 min
Lab File: VL034992.D
Acq: 12 May 2020 18:23

Tgt Ion: 43 Resp: 11270366
Ion Ratio Lower Upper
43 100
58 26.8 21.7 32.5





#16

1,3-Butadiene

Concen: 3.552 ppbv

RT: 3.27 min Scan# 150

Delta R.T. -0.02 min

Lab File: VL034992.D

Acq: 12 May 2020 18:23

Instrument :

MSVOA_L

ClientSampleId :

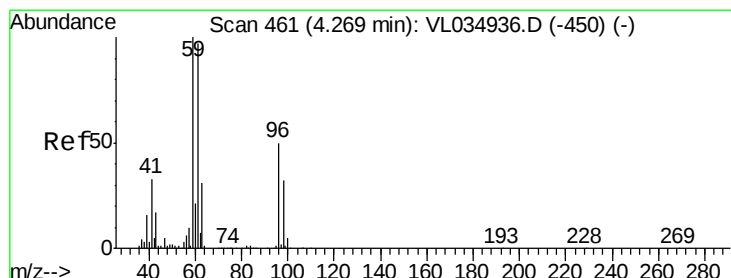
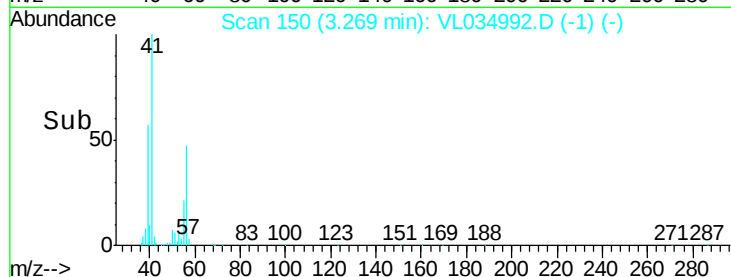
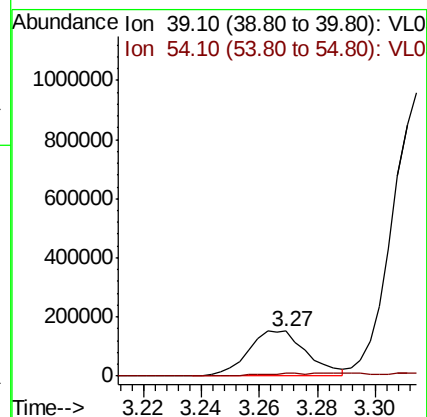
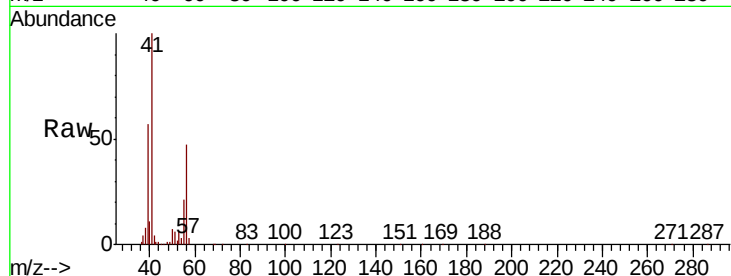
IA-2

Tot Ion: 39 Resp: 211856

Ion Ratio Lower Upper

39 100

54 11.2 66.6 100.0#



#17

tert-Butyl alcohol

Concen: 6.573 ppbv

RT: 4.28 min Scan# 465

Delta R.T. 0.01 min

Lab File: VL034992.D

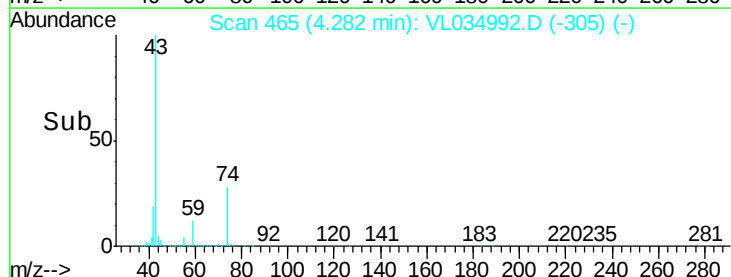
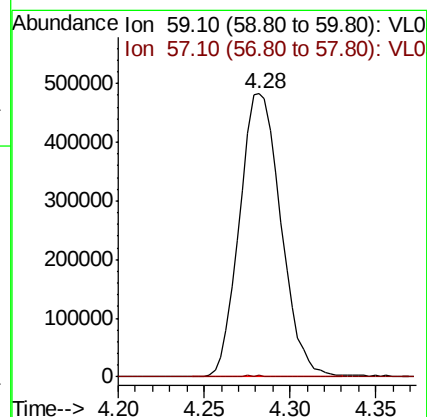
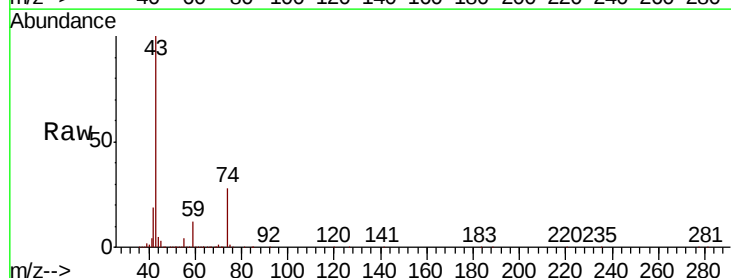
Acq: 12 May 2020 18:23

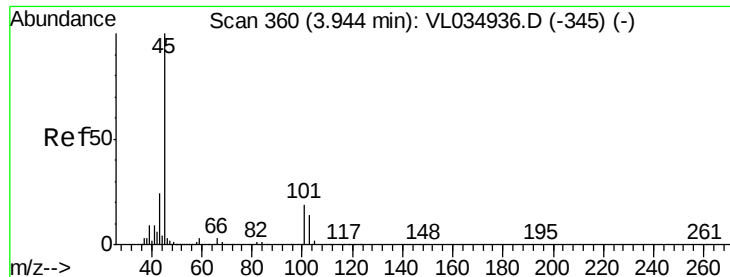
Tgt Ion: 59 Resp: 810607

Ion Ratio Lower Upper

59 100

57 0.0 8.7 13.1#



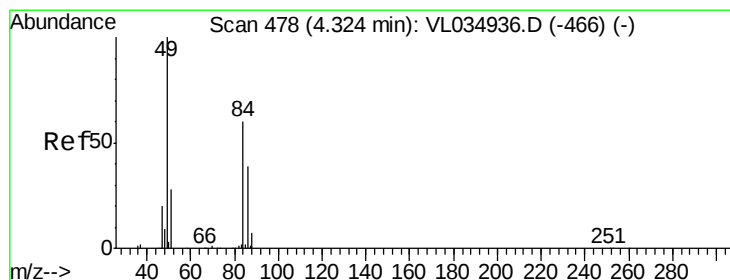
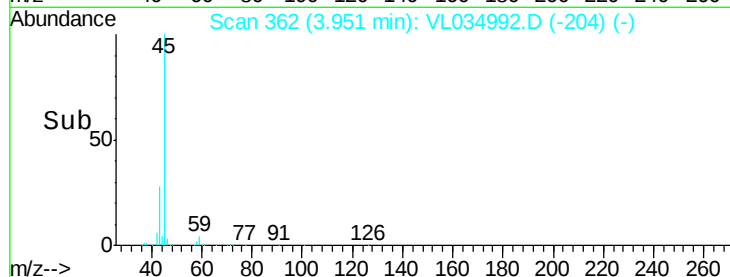
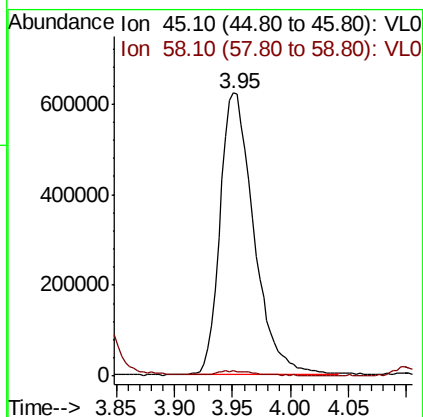
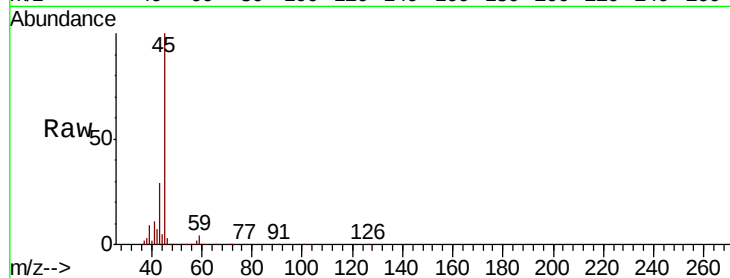


#19

Isopropyl Alcohol
 Concen: 13.598 ppbv
 RT: 3.95 min Scan# 362
 Delta R.T. 0.01 min
 Lab File: VL034992.D
 Acq: 12 May 2020 18:23

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2

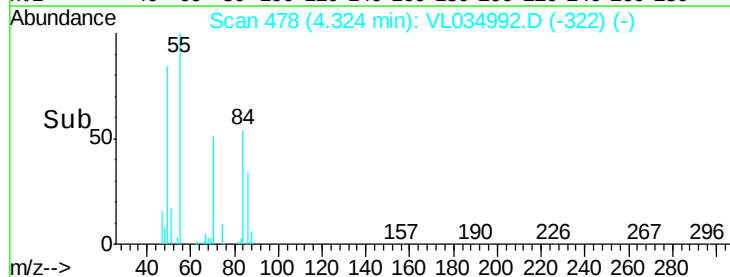
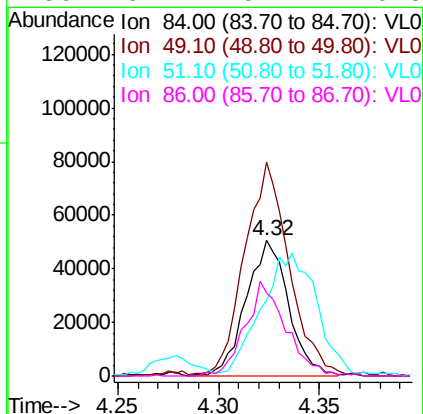
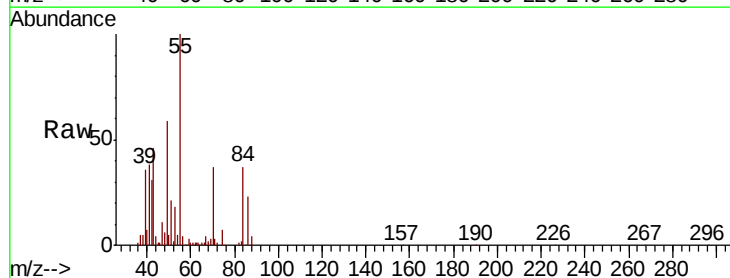
Tot Ion: 45 Resp: 1256951
 Ion Ratio Lower Upper
 45 100
 58 239.8 1.7 2.5#

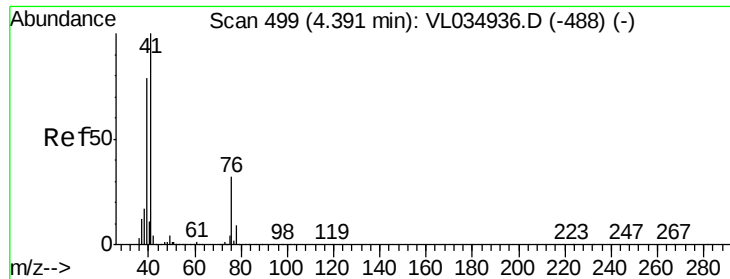


#20

Methylene Chloride
 Concen: 1.607 ppbv
 RT: 4.32 min Scan# 478
 Delta R.T. -0.00 min
 Lab File: VL034992.D
 Acq: 12 May 2020 18:23

Tgt Ion: 84 Resp: 73748
 Ion Ratio Lower Upper
 84 100
 49 157.3 132.5 198.7
 51 46.9 38.4 57.6
 86 62.1 51.2 76.8

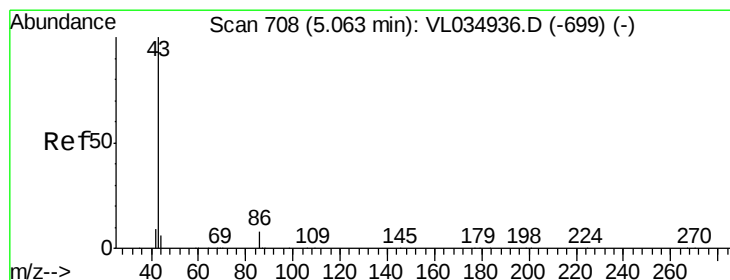
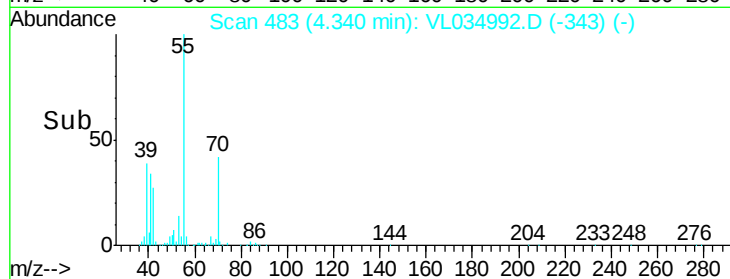
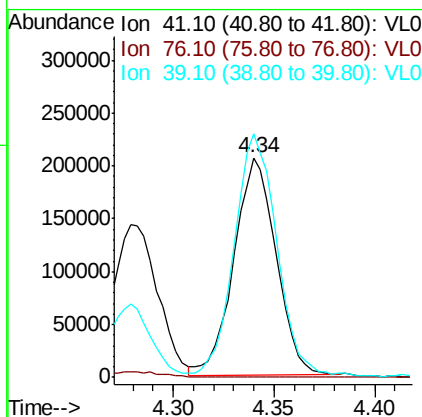
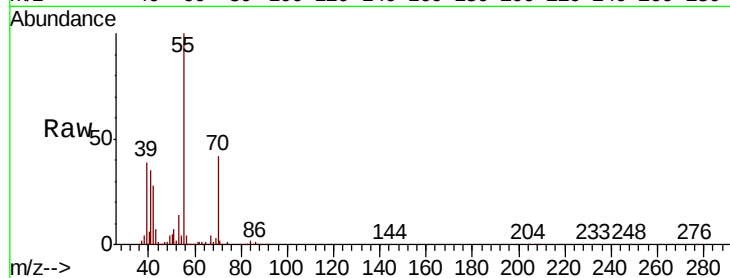




#21
Allvl Chloride
Concen: 3.871 ppbv
RT: 4.34 min Scan# 483
Delta R.T. -0.05 min
Lab File: VL034992.D
Acq: 12 May 2020 18:23

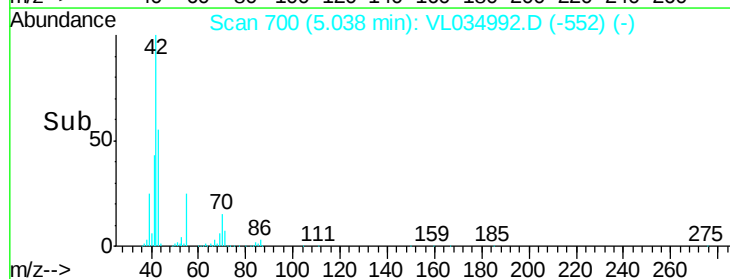
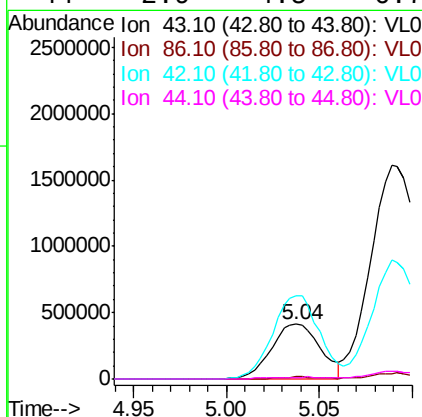
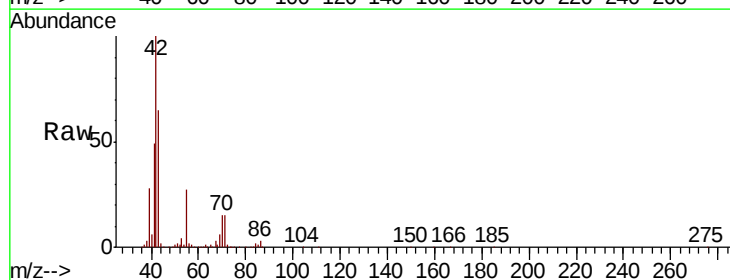
Instrument :
MSVOA_L
ClientSampled :
IA-2

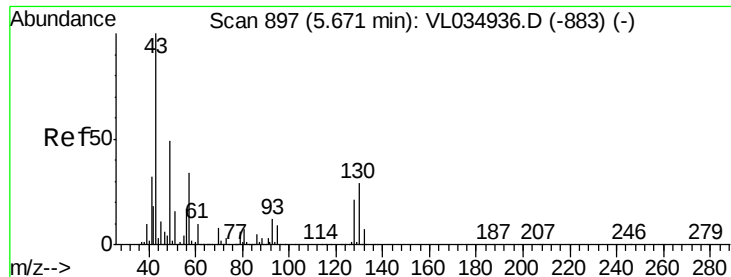
Tot Ion: 41 Resp: 303108
Ion Ratio Lower Upper
41 100
76 0.0 23.6 35.4#
39 115.1 61.9 92.9#



#23
Vinyl Acetate
Concen: 4.311 ppbv
RT: 5.04 min Scan# 700
Delta R.T. -0.03 min
Lab File: VL034992.D
Acq: 12 May 2020 18:23

Tgt Ion: 43 Resp: 757670
Ion Ratio Lower Upper
43 100
86 3.9 5.5 8.3#
42 153.7 8.0 12.0#
44 2.9 4.5 6.7#



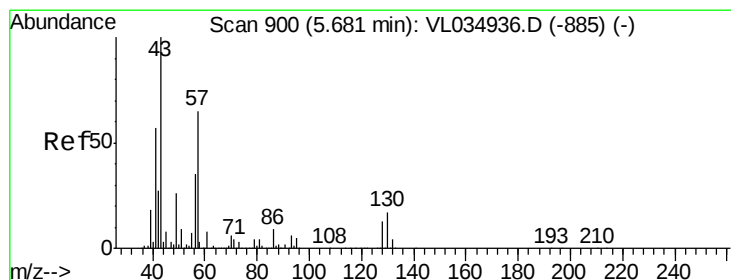
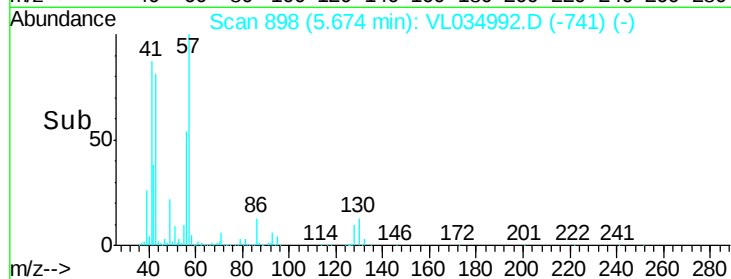
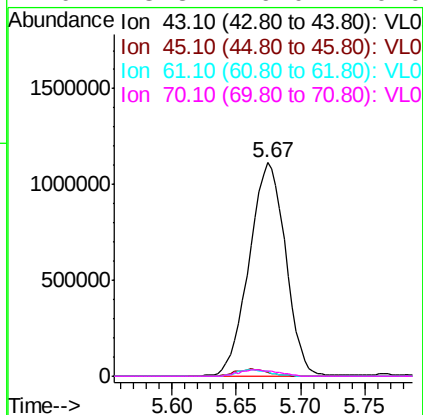
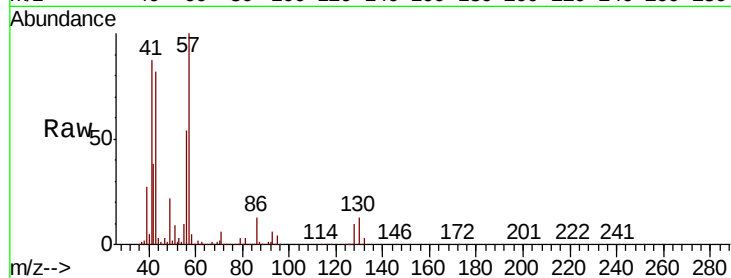


#25
Ethyl Acetate
Concen: 9.448 ppbv
RT: 5.67 min Scan# 898
Delta R.T. 0.00 min
Lab File: VL034992.D
Acq: 12 May 2020 18:23

Instrument :
MSVOA_L
ClientSampleId :
IA-2

Tot Ion: 43 Resp: 2199775

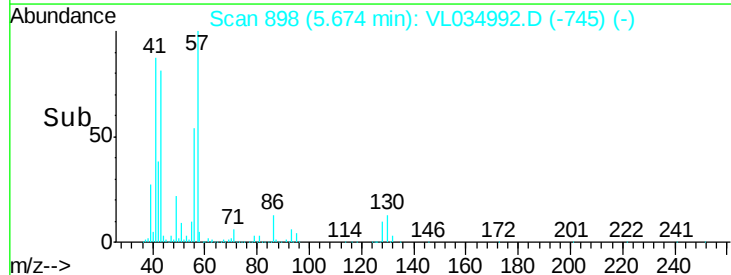
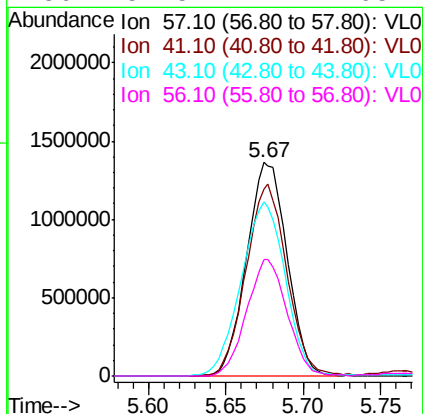
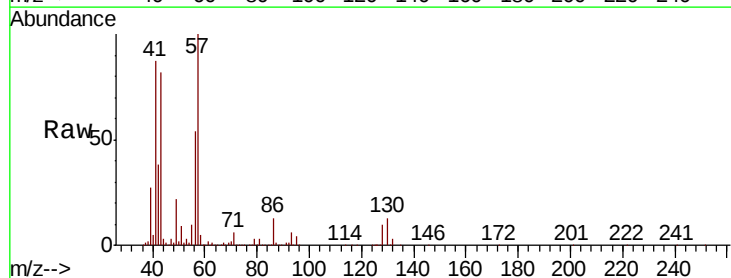
Ion	Ratio	Lower	Upper
43	100		
45	3.2	8.1	12.1#
61	2.8	7.8	11.8#
70	3.3	6.0	9.0#

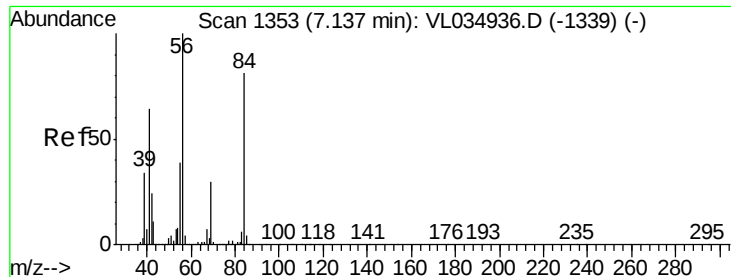


#26
Hexane
Concen: 24.624 ppbv
RT: 5.67 min Scan# 898
Delta R.T. -0.01 min
Lab File: VL034992.D
Acq: 12 May 2020 18:23

Tgt Ion: 57 Resp: 2485483

Ion	Ratio	Lower	Upper
57	100		
41	91.0	72.7	109.1
43	88.4	182.1	273.1#
56	54.5	42.2	63.2

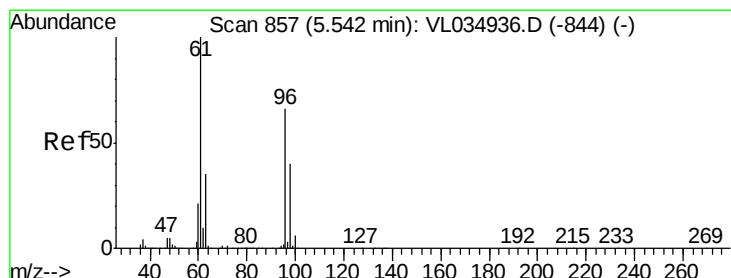
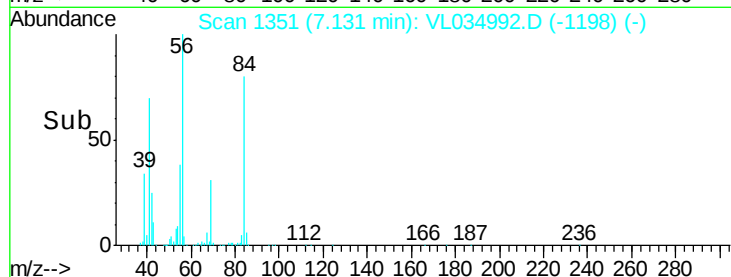
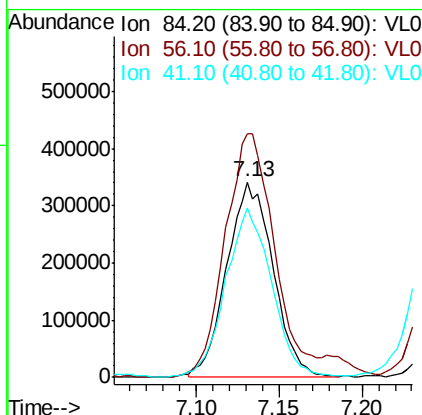
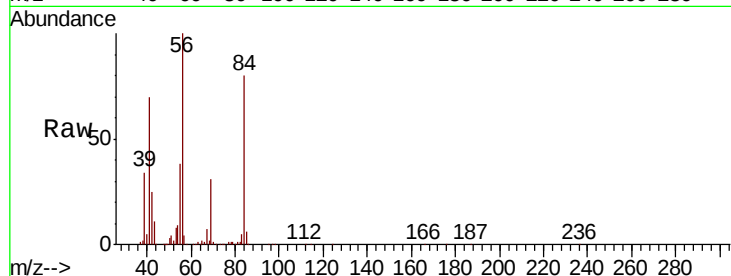




#30
Cvclohexane
Concen: 8.402 ppbv
RT: 7.13 min Scan# 1351
Delta R.T. -0.01 min
Lab File: VL034992.D
Acq: 12 May 2020 18:23

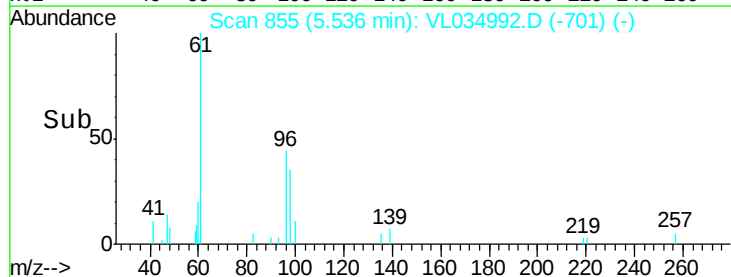
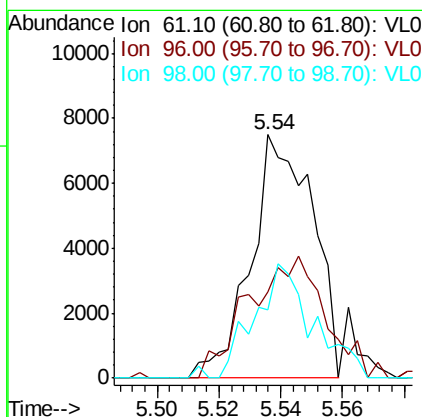
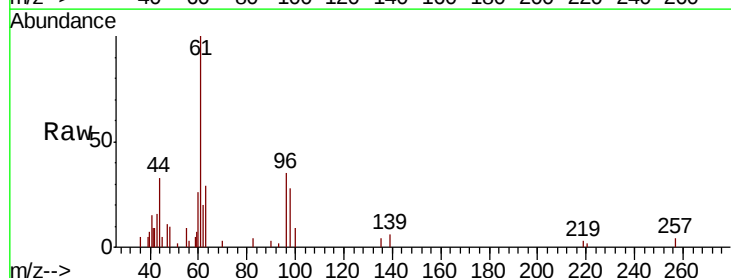
Instrument :
MSVOA_L
ClientSampleId :
IA-2

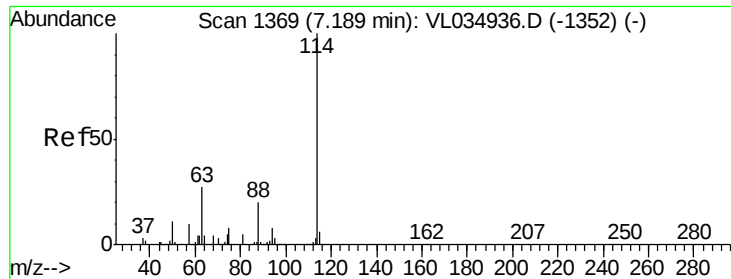
Tot Ion: 84 Resp: 654427
Ion Ratio Lower Upper
84 100
56 142.0 111.4 167.2
41 85.6 66.7 100.1



#31
cis-1,2-Dichloroethene
Concen: 0.106 ppbv
RT: 5.54 min Scan# 855
Delta R.T. -0.01 min
Lab File: VL034992.D
Acq: 12 May 2020 18:23

Tgt Ion: 61 Resp: 10405
Ion Ratio Lower Upper
61 100
96 35.4 53.0 79.6#
98 28.0 32.2 48.2#

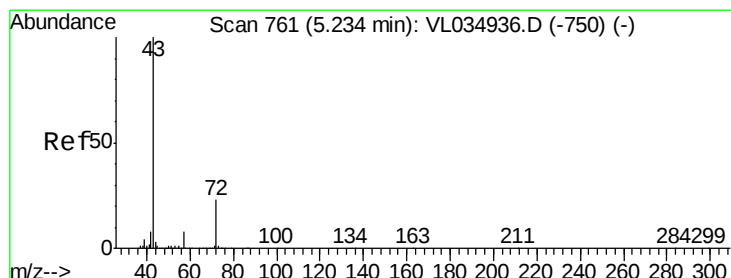
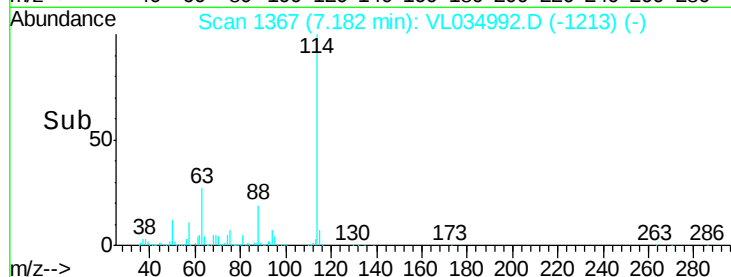
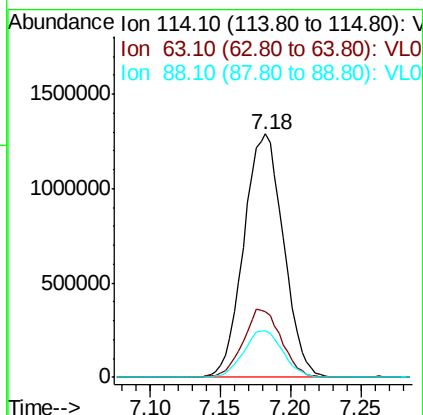
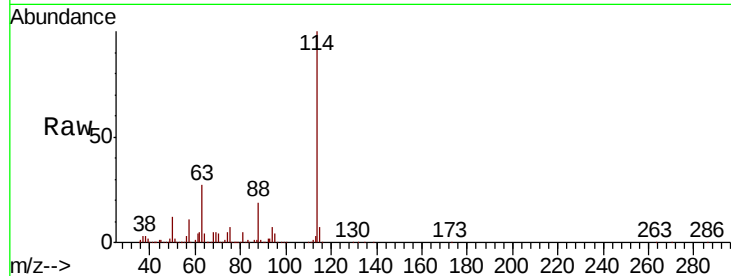




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1367
 Delta R.T. -0.01 min
 Lab File: VL034992.D
 Acq: 12 May 2020 18:23

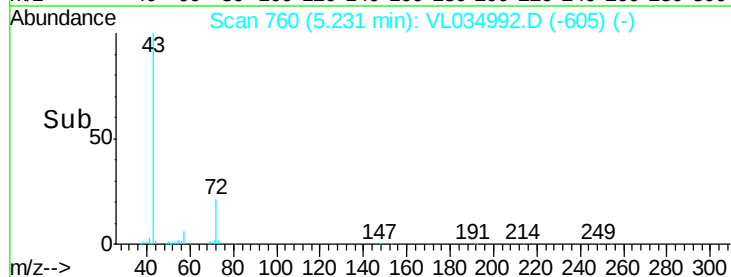
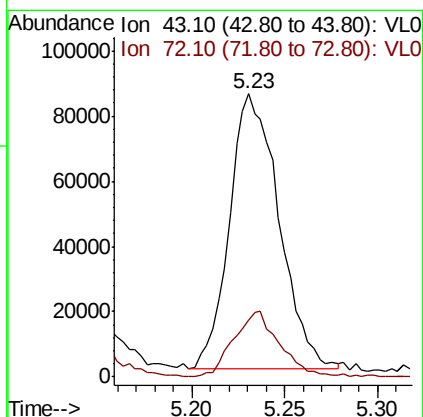
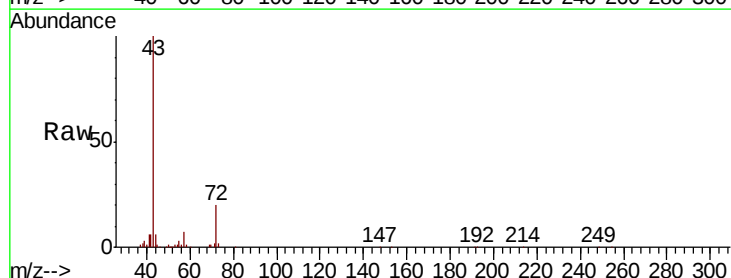
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2

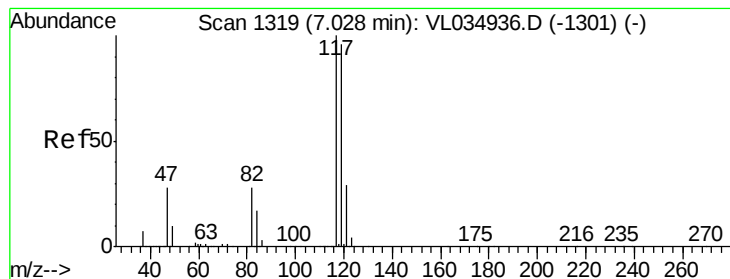
Tot Ion:114 Resp: 2540070
 Ion Ratio Lower Upper
 114 100
 63 27.3 22.2 33.4
 88 19.0 15.5 23.3



#34
 2-Butanone
 Concen: 0.994 ppbv
 RT: 5.23 min Scan# 760
 Delta R.T. -0.00 min
 Lab File: VL034992.D
 Acq: 12 May 2020 18:23

Tgt Ion: 43 Resp: 156912
 Ion Ratio Lower Upper
 43 100
 72 22.3 18.0 27.0





#35

Carbon Tetrachloride

Concen: 0.039 ppbv

RT: 7.02 min Scan# 1317

Delta R.T. -0.01 min

Lab File: VL034992.D

Acq: 12 May 2020 18:23

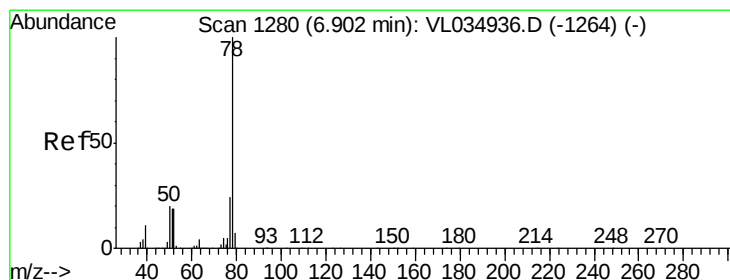
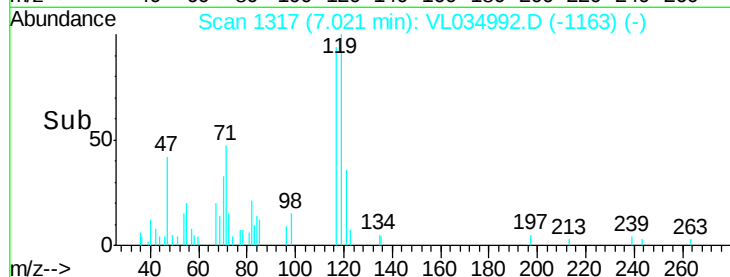
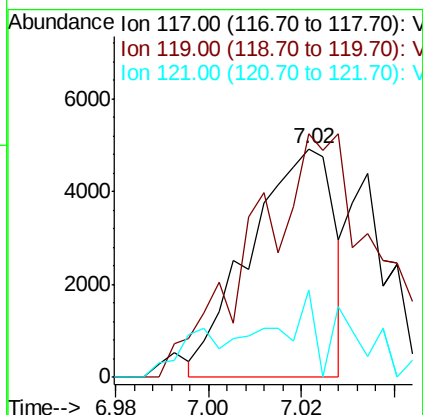
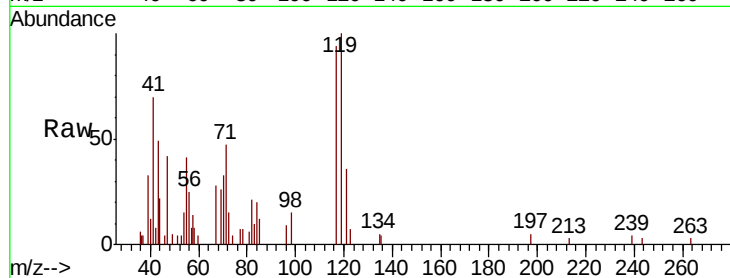
Instrument :

MSVOA_L

ClientSampleId :

IA-2

Tot Ion:117	Resp:	6197
Ion	Ratio	Lower Upper
117	100	
119	95.7	77.0 115.6
121	20.9	23.0 34.6#



#36

Benzene

Concen: 6.599 ppbv

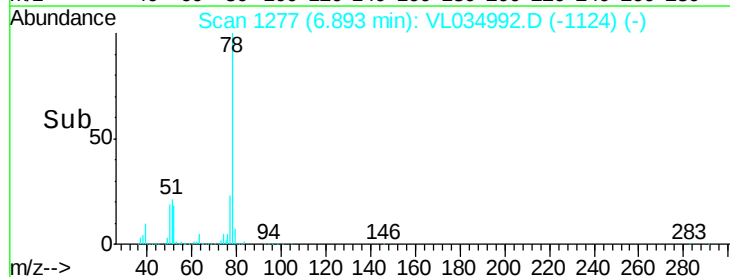
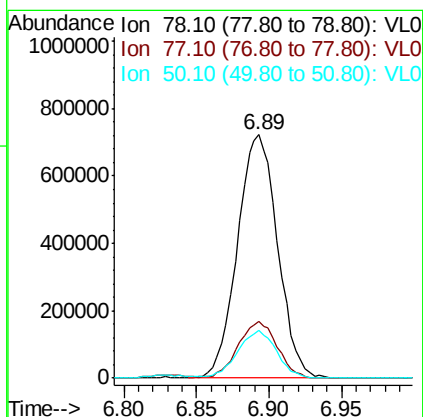
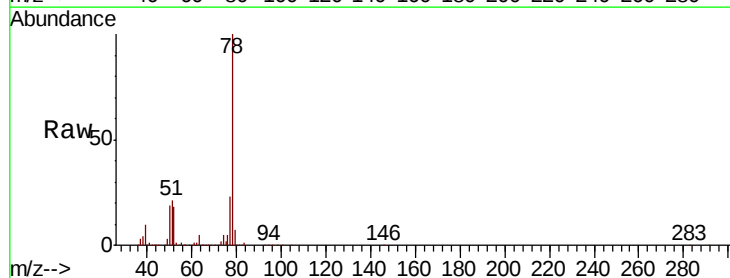
RT: 6.89 min Scan# 1277

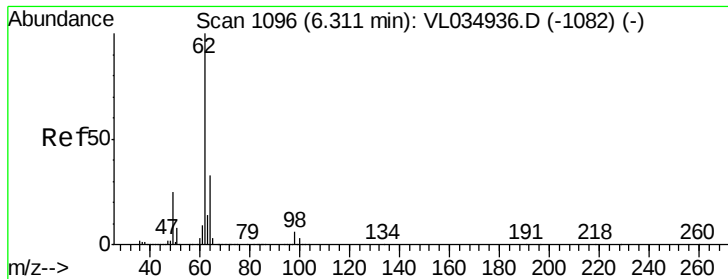
Delta R.T. -0.01 min

Lab File: VL034992.D

Acq: 12 May 2020 18:23

Tgt Ion: 78	Resp:	1381995
Ion	Ratio	Lower Upper
78	100	
77	23.0	19.0 28.6
50	19.3	15.8 23.8

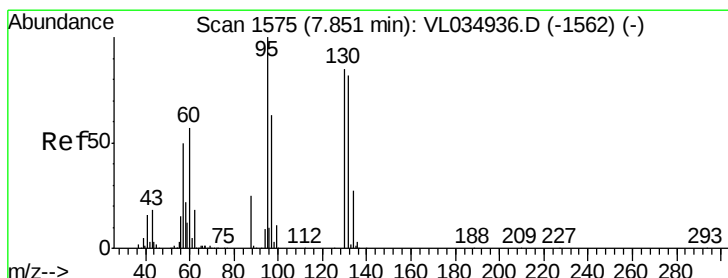
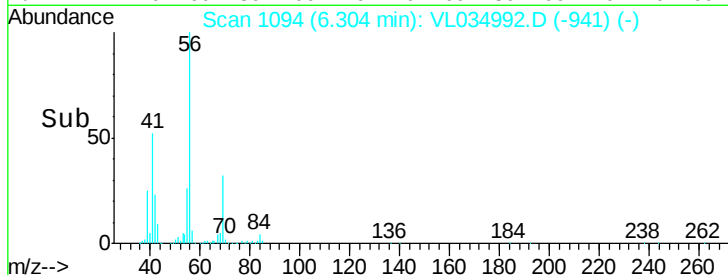
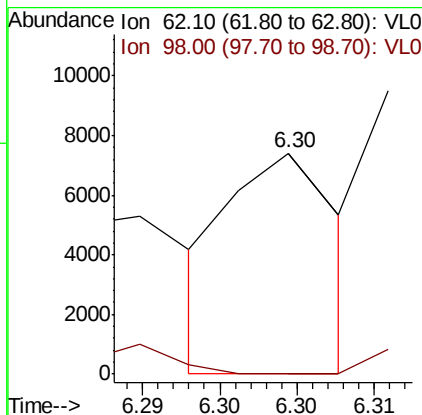
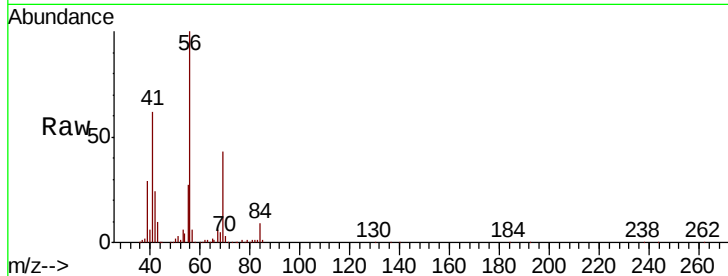




#37
 1,2-Dichloroethane
 Concen: 0.028 ppbv
 RT: 6.30 min Scan# 1094
 Delta R.T. -0.01 min
 Lab File: VL034992.D
 Acq: 12 May 2020 18:23

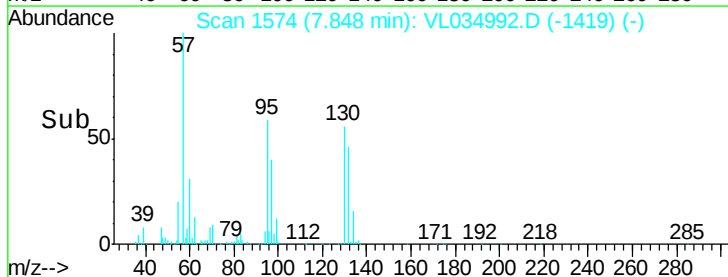
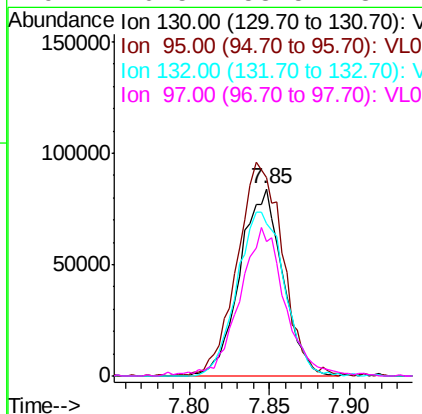
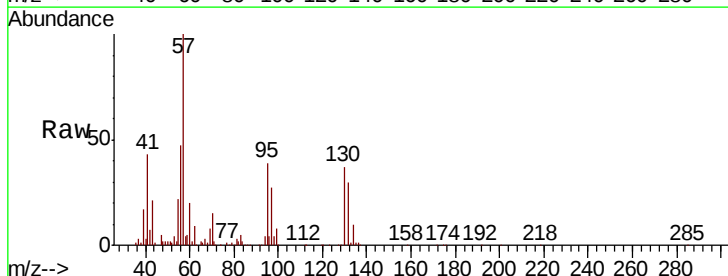
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2

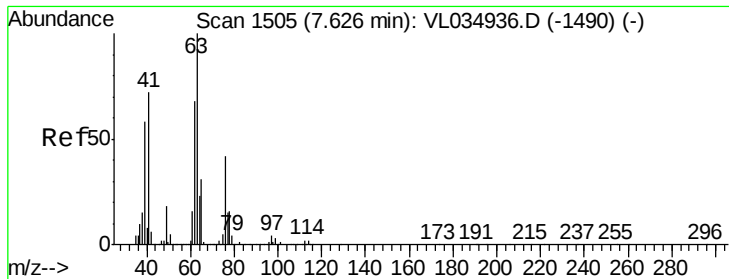
Tot Ion: 62 Resp: 3643
 Ion Ratio Lower Upper
 62 100
 98 0.0 4.8 7.2#



#38
 Trichloroethene
 Concen: 1.891 ppbv
 RT: 7.85 min Scan# 1574
 Delta R.T. -0.00 min
 Lab File: VL034992.D
 Acq: 12 May 2020 18:23

Tgt Ion: 130 Resp: 153388
 Ion Ratio Lower Upper
 130 100
 95 105.3 93.4 140.0
 132 81.5 76.4 114.6
 97 70.5 58.5 87.7

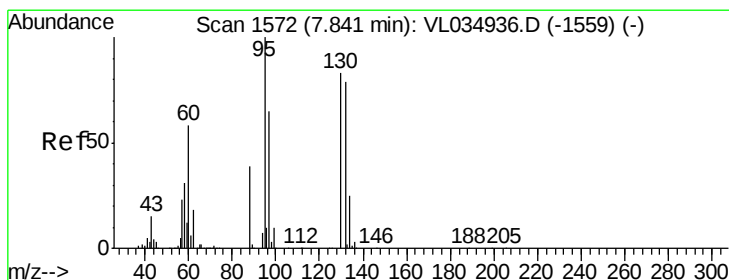
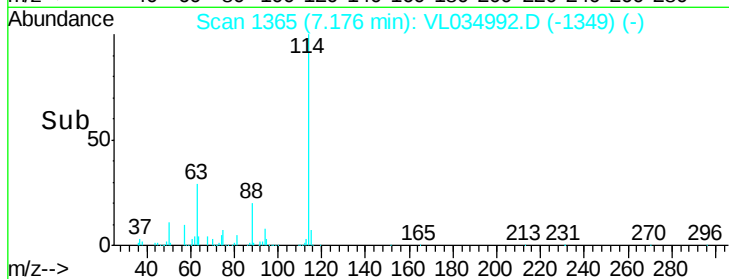
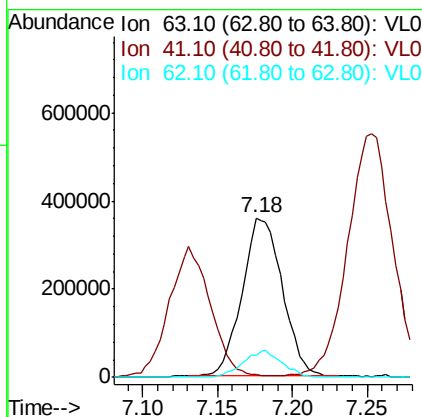
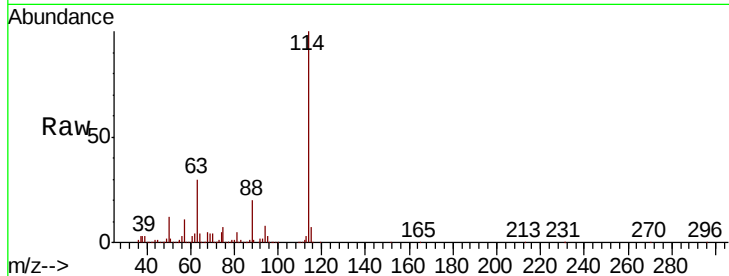




#39
 1,2-Dichloropropane
 Concen: 7.991 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. -0.45 min
 Lab File: VL034992.D
 Acq: 12 May 2020 18:23

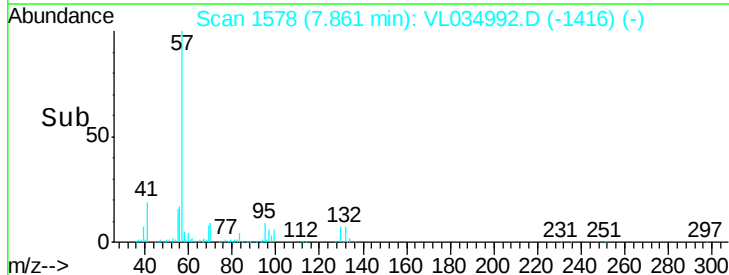
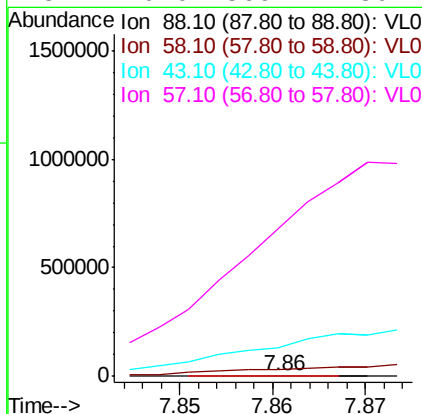
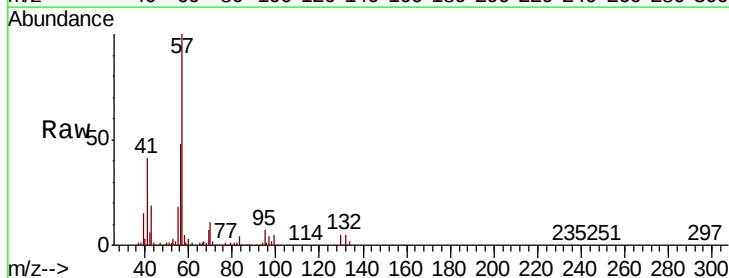
Instrument :
 MSVOA_L
 ClientSampled :
 IA-2

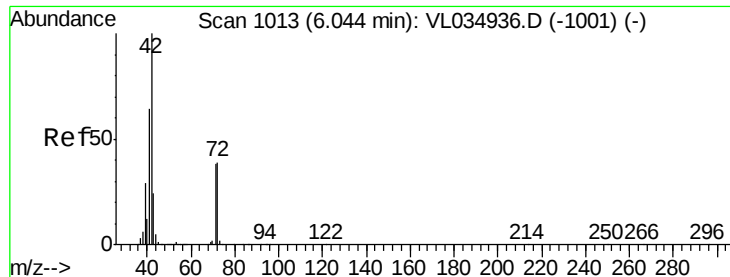
Tot Ion	Ratio	Lower	Upper
63	100		
41	0.0	57.8	86.8#
62	13.7	54.2	81.2#



#40
 1,4-Dioxane
 Concen: 0.021 ppbv
 RT: 7.86 min Scan# 1578
 Delta R.T. 0.02 min
 Lab File: VL034992.D
 Acq: 12 May 2020 18:23

Tgt Ion	Ratio	Lower	Upper
88	100		
58	0.0	105.1	157.7#
43	0.0	202.6	303.8#
57	0.0	869.4	1304.0#





#41

Tetrahydrofuran

Concen: 1.488 ppbv

RT: 6.04 min Scan# 1013

Delta R.T. 0.00 min

Lab File: VL034992.D

Acq: 12 May 2020 18:23

Instrument :

MSVOA_L

ClientSampleId :

IA-2

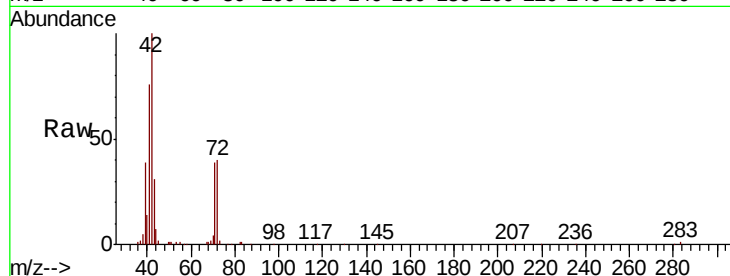
Tot Ion: 42 Resp: 123680

Ion Ratio Lower Upper

42 100

72 40.4 31.4 47.0

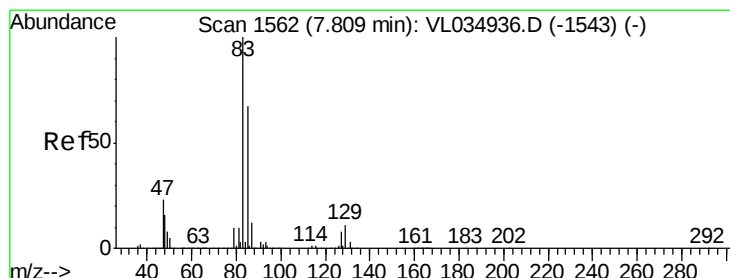
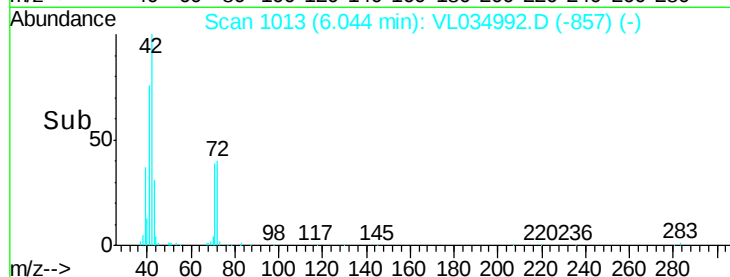
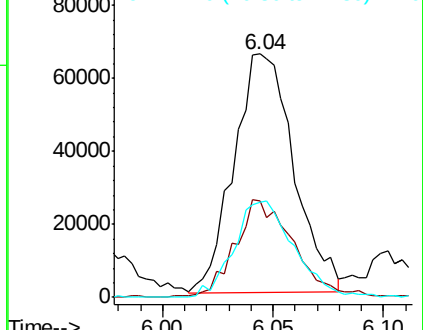
71 40.5 29.8 44.8



Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 0.469 ppbv

RT: 7.79 min Scan# 1557

Delta R.T. -0.02 min

Lab File: VL034992.D

Acq: 12 May 2020 18:23

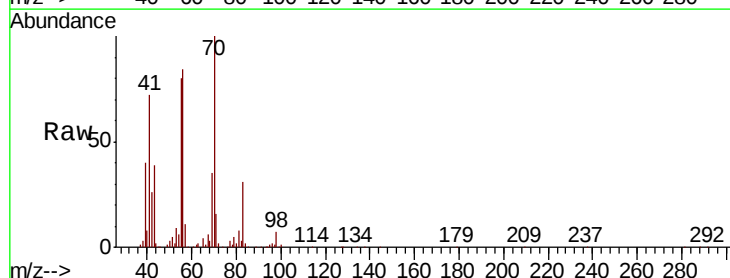
Tgt Ion: 83 Resp: 81786

Ion Ratio Lower Upper

83 100

85 1.0 53.4 80.0#

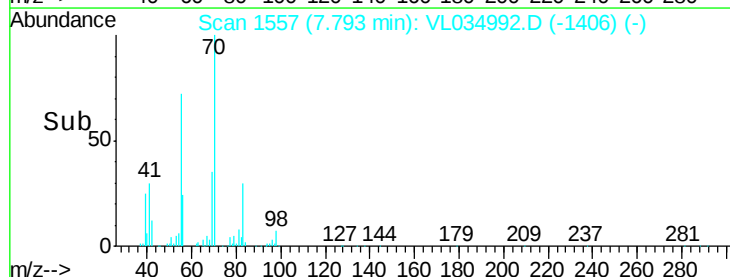
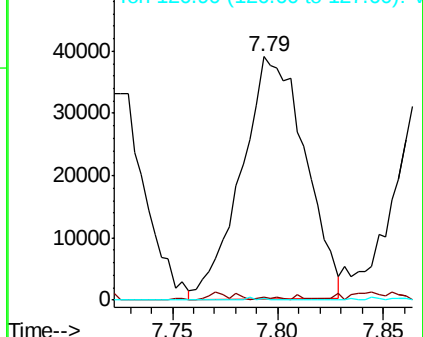
127 0.6 6.1 9.1#

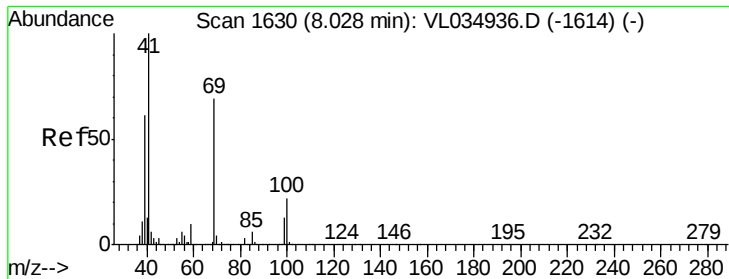


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V

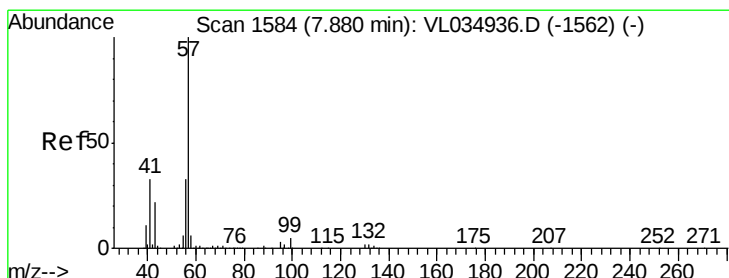
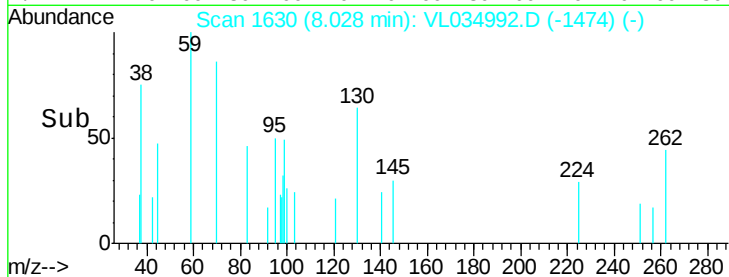
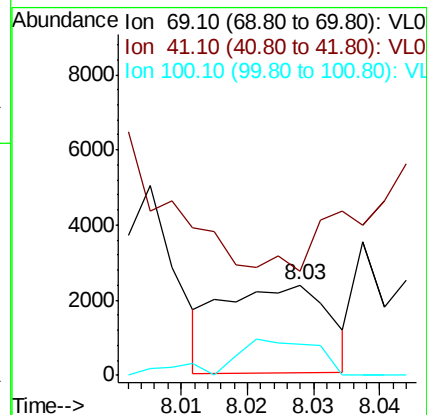
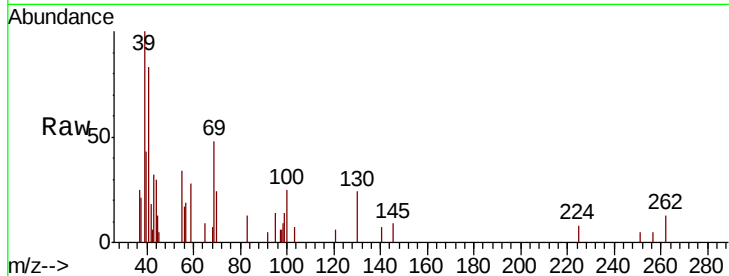




#43
Methvl Methacrvlate
Concen: 0.029 ppbv
RT: 8.03 min Scan# 1630
Delta R.T. -0.00 min
Lab File: VL034992.D
Acq: 12 May 2020 18:23

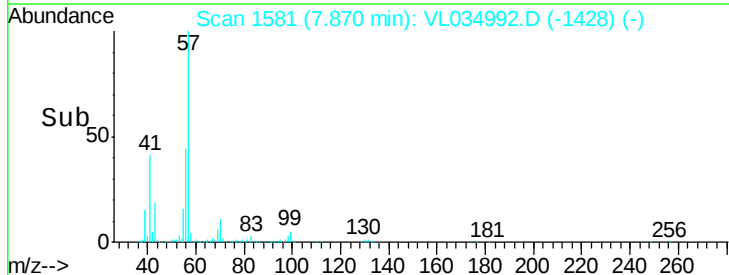
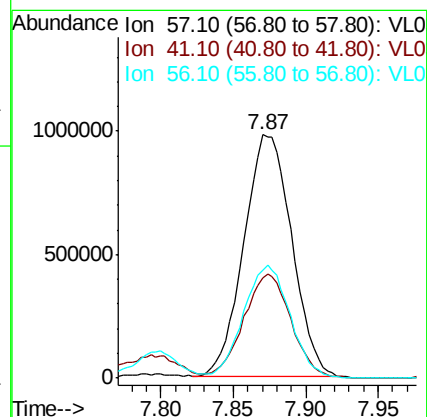
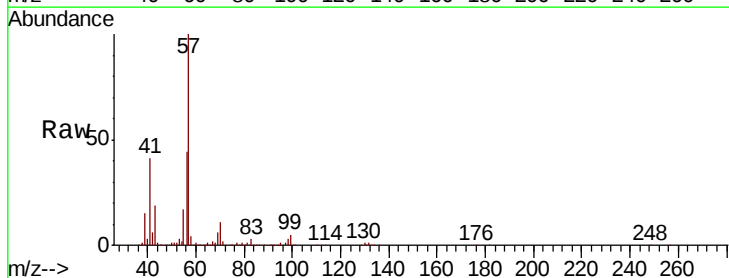
Instrument :
MSVOA_L
ClientSampleId :
IA-2

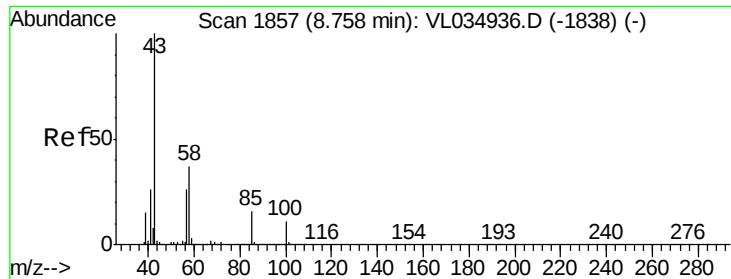
Tot Ion: 69 Resp: 2595
Ion Ratio Lower Upper
69 100
41 0.0 119.8 179.6#
100 0.0 25.0 37.6#



#44
2,2,4-Trimethylpentane
Concen: 6.080 ppbv
RT: 7.87 min Scan# 1581
Delta R.T. -0.01 min
Lab File: VL034992.D
Acq: 12 May 2020 18:23

Tgt Ion: 57 Resp: 2263536
Ion Ratio Lower Upper
57 100
41 42.5 26.4 39.6#
56 45.4 25.5 38.3#

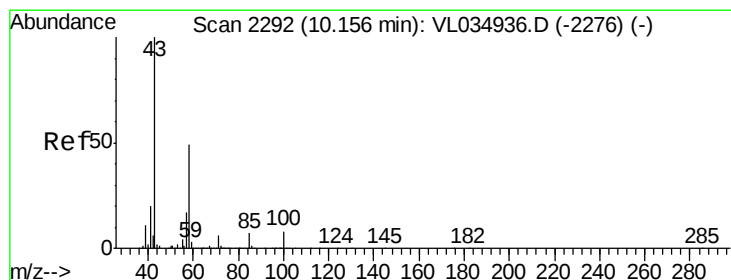
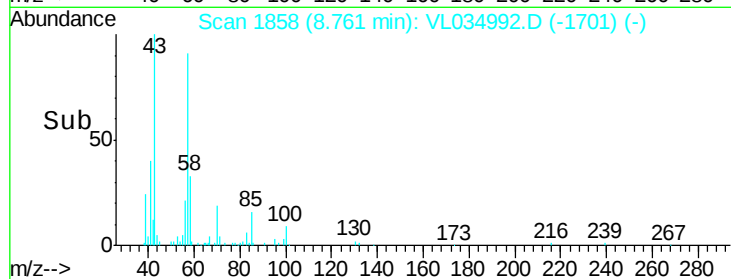
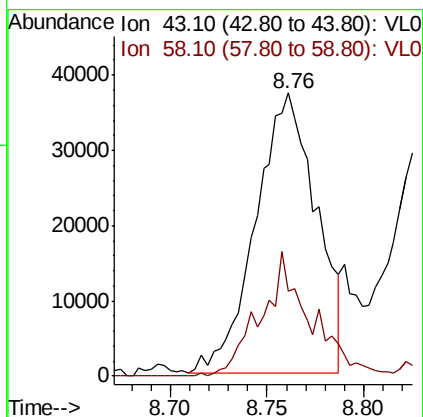
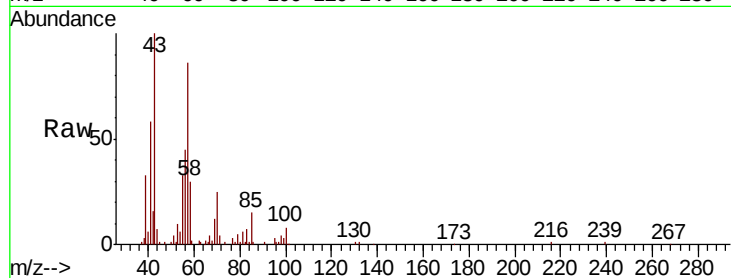




#50
4-Methyl-2-Pentanone
Concen: 0.361 ppbv
RT: 8.76 min Scan# 1858
Delta R.T. 0.00 min
Lab File: VL034992.D
Acq: 12 May 2020 18:23

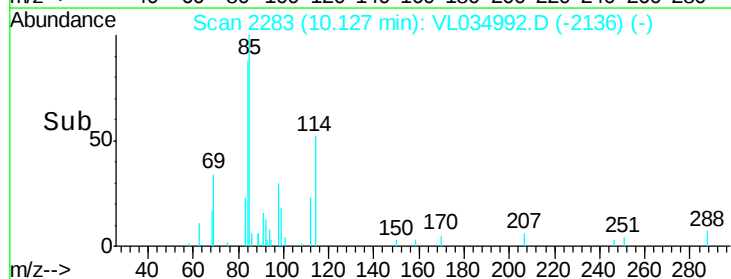
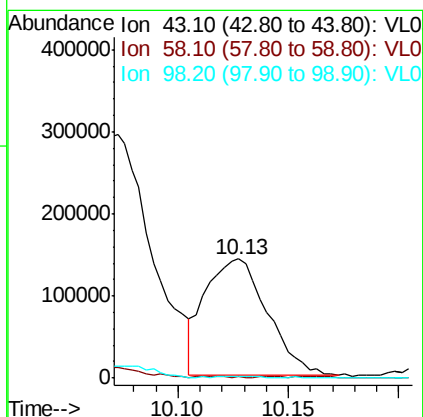
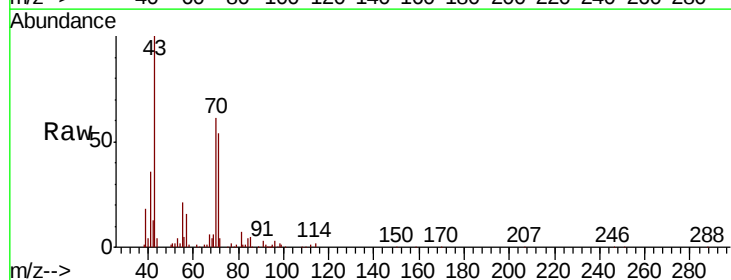
Instrument :
MSVOA_L
ClientSampleId :
IA-2

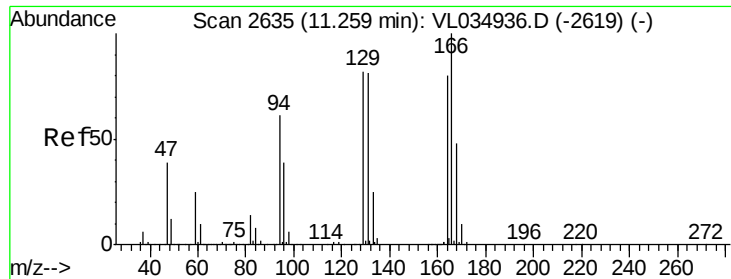
Tot Ion: 43 Resp: 81355
Ion Ratio Lower Upper
43 100
58 36.1 29.1 43.7



#51
2-Hexanone
Concen: 1.578 ppbv
RT: 10.13 min Scan# 2283
Delta R.T. -0.03 min
Lab File: VL034992.D
Acq: 12 May 2020 18:23

Tgt Ion: 43 Resp: 277920
Ion Ratio Lower Upper
43 100
58 1.7 39.1 58.7#
98 0.0 0.3 0.5#





#52

Tetrachloroethene

Concen: 8.150 ppbv

RT: 11.25 min Scan# 2631

Delta R.T. -0.01 min

Lab File: VL034992.D

Acq: 12 May 2020 18:23

Instrument :

MSVOA_L

ClientSampleId :

IA-2

Tot Ion:164 Resp: 606871

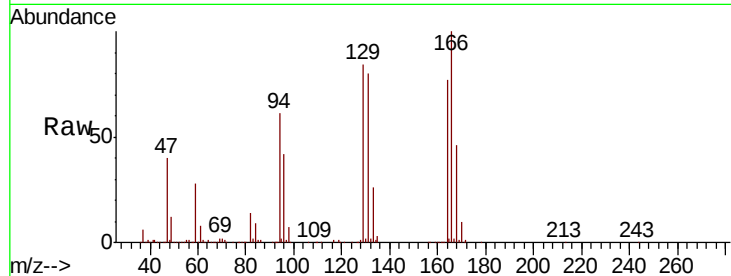
Ion Ratio Lower Upper

164 100

166 128.9 100.7 151.1

129 108.2 83.0 124.4

131 102.8 81.0 121.4

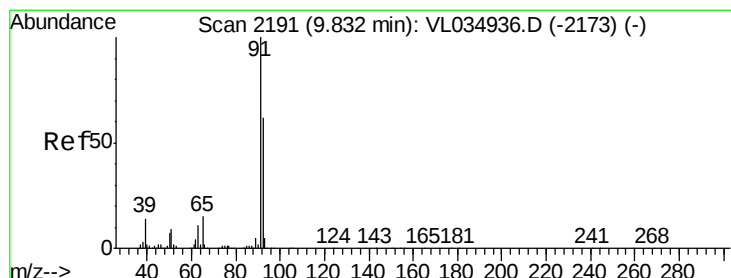
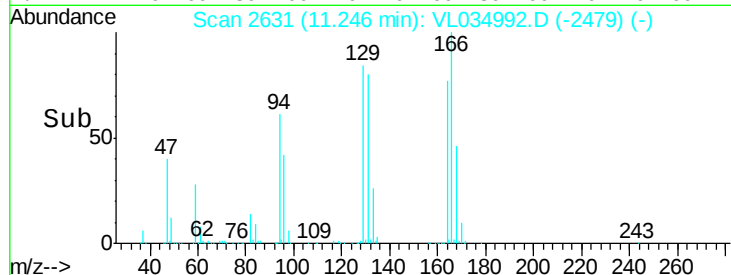
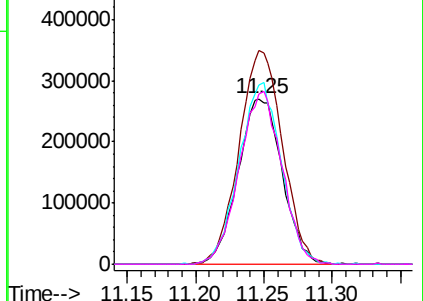


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 57.047 ppbv

RT: 9.83 min Scan# 2190

Delta R.T. -0.00 min

Lab File: VL034992.D

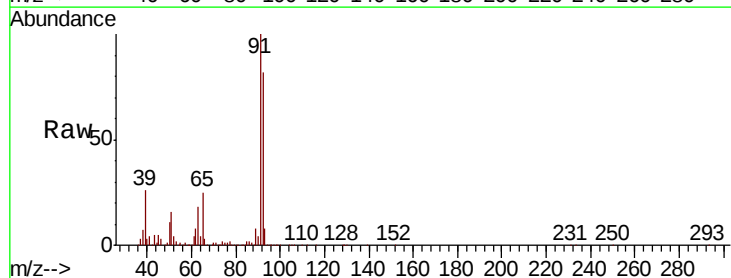
Acq: 12 May 2020 18:23

Tgt Ion: 91 Resp:12664346

Ion Ratio Lower Upper

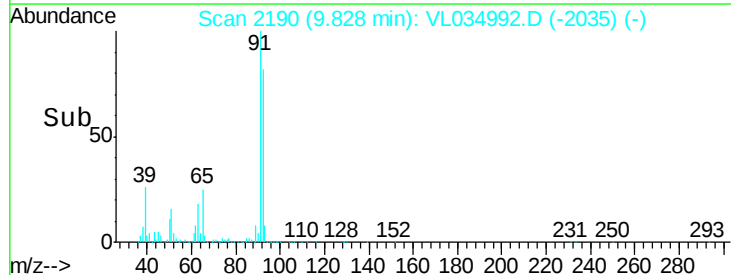
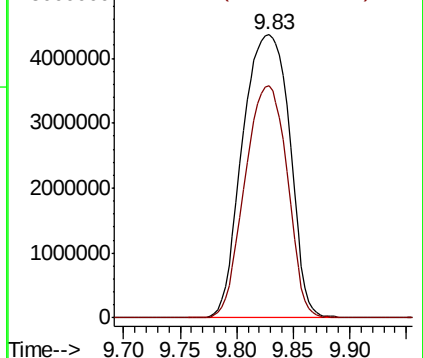
91 100

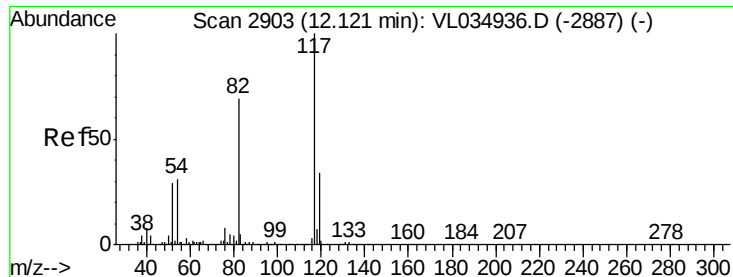
92 73.9 48.6 73.0#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

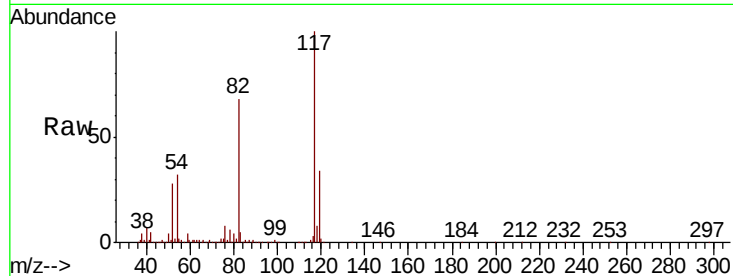




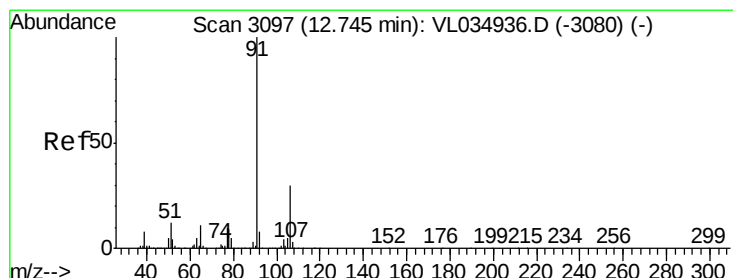
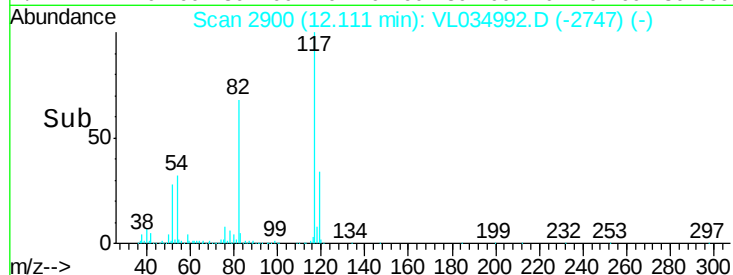
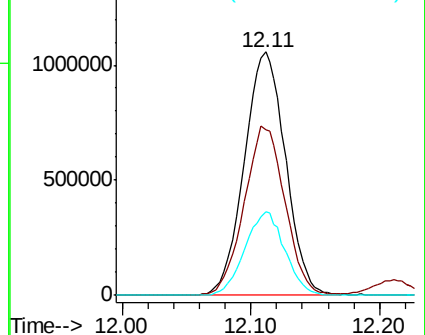
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2900
Delta R.T. -0.01 min
Lab File: VL034992.D
Acq: 12 May 2020 18:23

Instrument :
MSVOA_L
ClientSampled :
IA-2

Tot Ion:117 Resp: 2352647
Ion Ratio Lower Upper
117 100
82 69.0 53.1 79.7
119 33.3 26.7 40.1

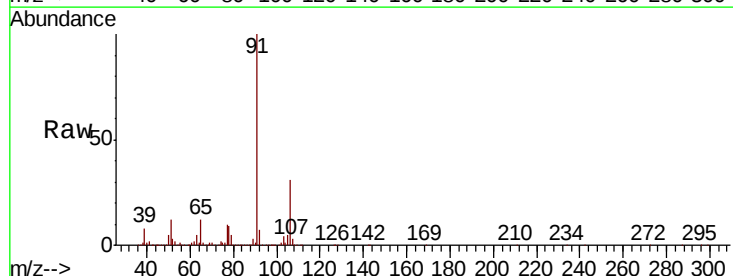


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

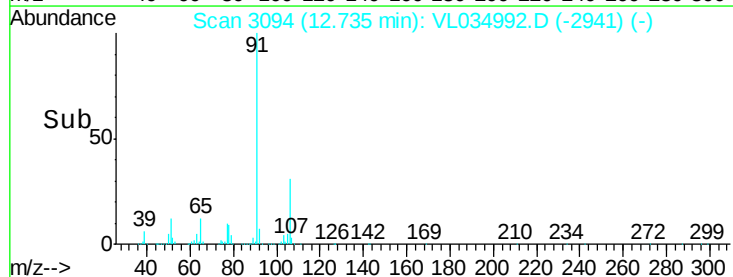
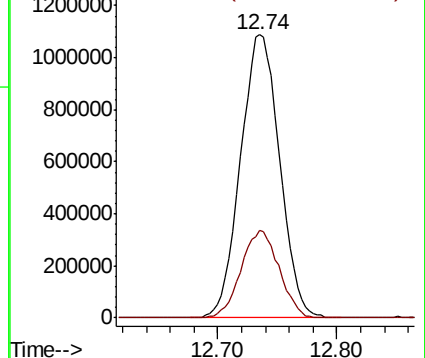


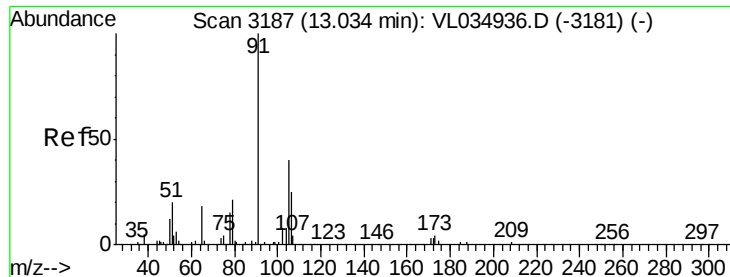
#58
Ethyl Benzene
Concen: 8.490 ppbv
RT: 12.74 min Scan# 3094
Delta R.T. -0.01 min
Lab File: VL034992.D
Acq: 12 May 2020 18:23

Tgt Ion: 91 Resp: 2469958
Ion Ratio Lower Upper
91 100
106 31.1 24.2 36.4



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





#59

m/p-Xylene

Concen: 24.351 ppbv

RT: 12.99 min Scan# 3174

Delta R.T. -0.04 min

Lab File: VL034992.D

Acq: 12 May 2020 18:23

Instrument :

MSVOA_L

ClientSampled :

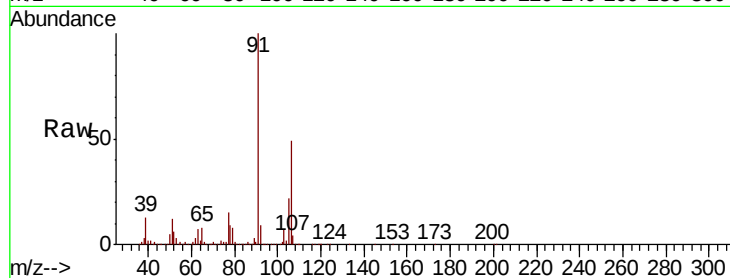
IA-2

Tot Ion: 91 Resp: 6233024

Ion Ratio Lower Upper

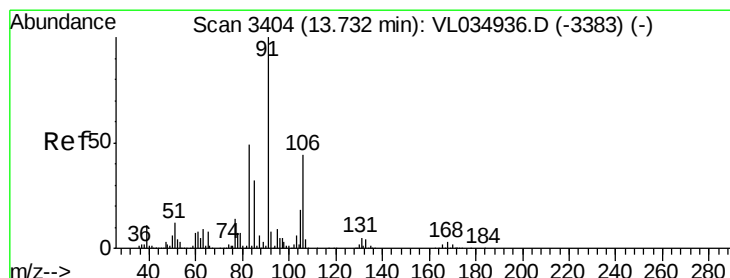
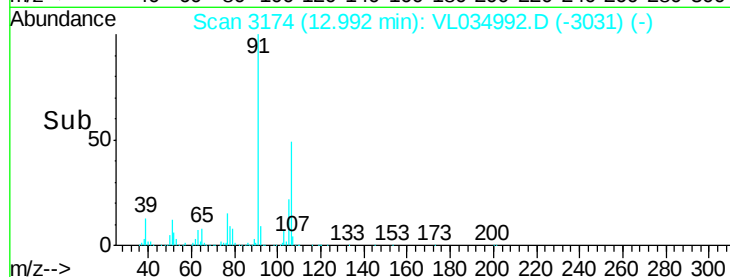
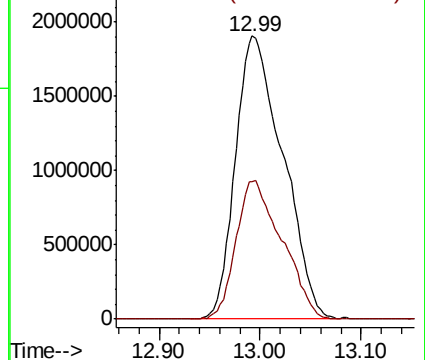
91 100

106 47.6 66.0 99.0#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 9.781 ppbv

RT: 13.72 min Scan# 3400

Delta R.T. -0.01 min

Lab File: VL034992.D

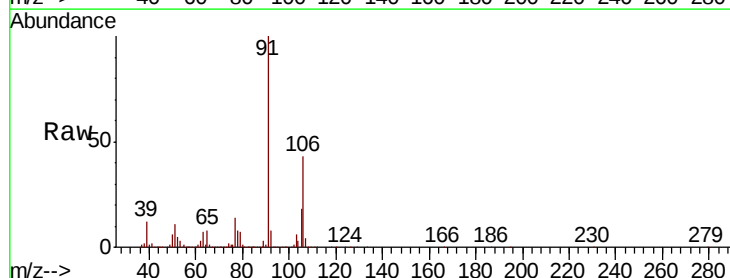
Acq: 12 May 2020 18:23

Tgt Ion: 91 Resp: 2470474

Ion Ratio Lower Upper

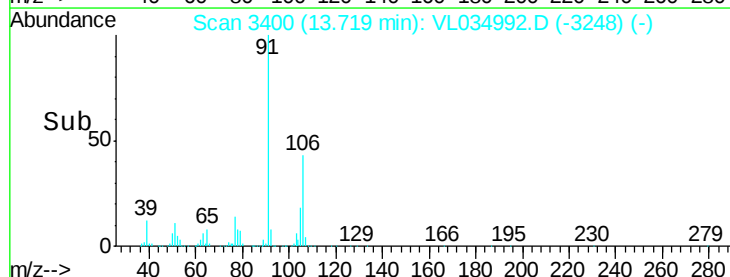
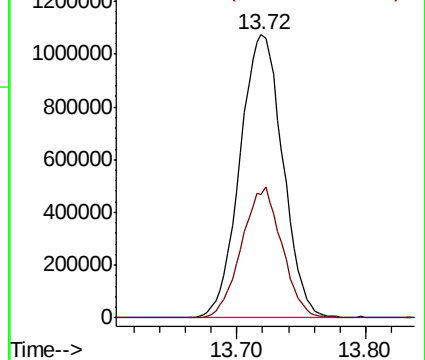
91 100

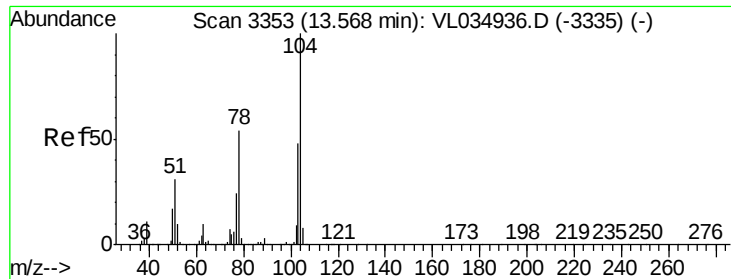
106 43.9 21.9 65.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#61

Stvrene

Concen: 2.026 ppbv

RT: 13.56 min Scan# 3350

Delta R.T. -0.01 min

Lab File: VL034992.D

Acq: 12 May 2020 18:23

Instrument :

MSVOA_L

ClientSampleId :

IA-2

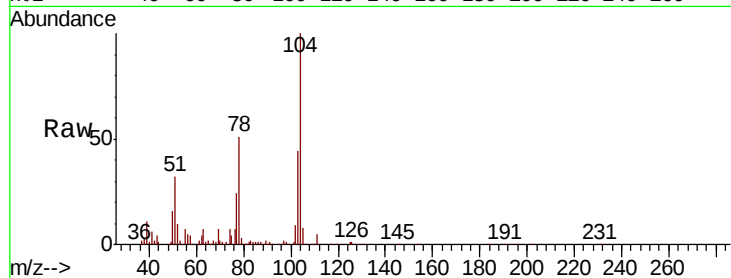
Tot Ion:104 Resp: 323801

Ion Ratio Lower Upper

104 100

78 112.5 43.7 65.5#

103 100.9 38.8 58.2#



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V

13.56

300000

200000

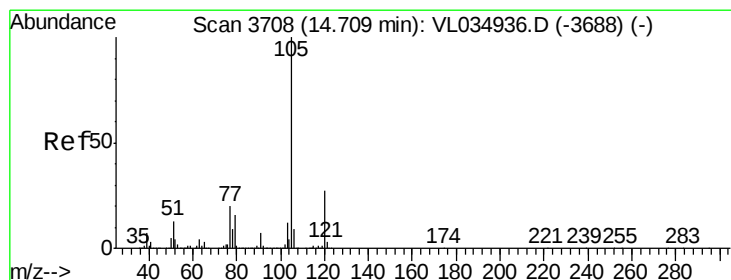
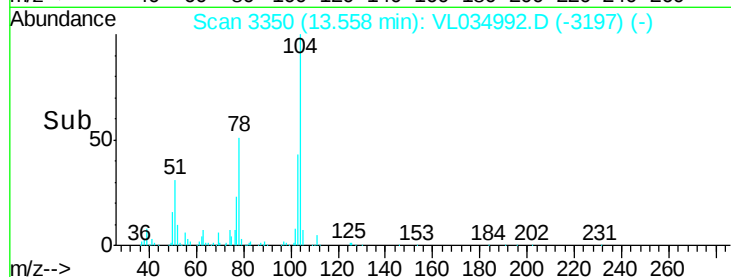
100000

0

13.55

13.60

Time-->



#62

Isopropylbenzene

Concen: 0.443 ppbv

RT: 14.70 min Scan# 3705

Delta R.T. -0.01 min

Lab File: VL034992.D

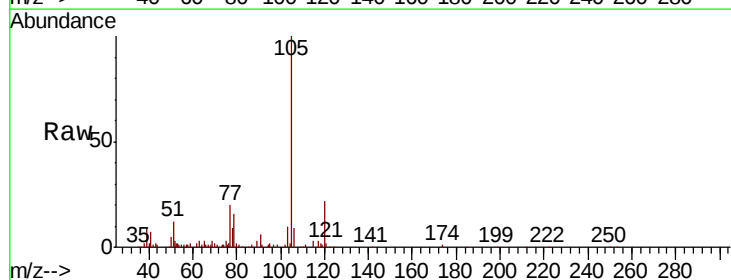
Acq: 12 May 2020 18:23

Tgt Ion:105 Resp: 167176

Ion Ratio Lower Upper

105 100

120 21.7 20.6 31.0



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

14.70

80000

60000

40000

20000

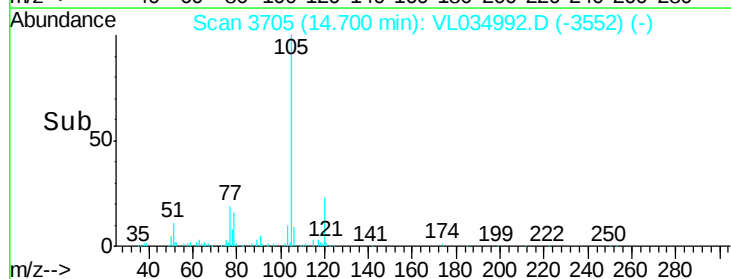
0

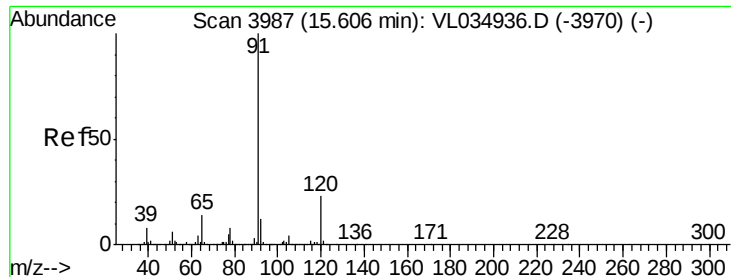
14.65

14.70

14.75

Time-->





#64

n-propylbenzene

Concen: 0.747 ppbv

RT: 15.60 min Scan# 3984

Delta R.T. -0.01 min

Lab File: VL034992.D

Acq: 12 May 2020 18:23

Instrument :

MSVOA_L

ClientSampleId :

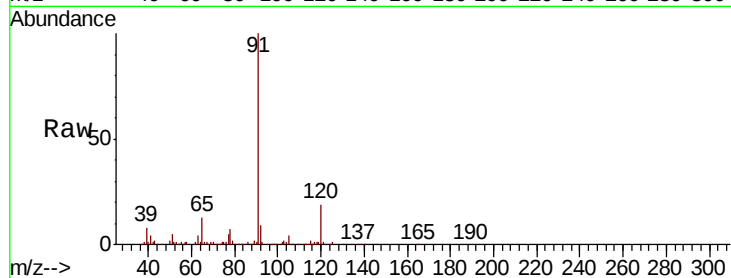
IA-2

Tot Ion:120 Resp: 72216

Ion Ratio Lower Upper

120 100

91 1045.8 373.5 560.3#



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

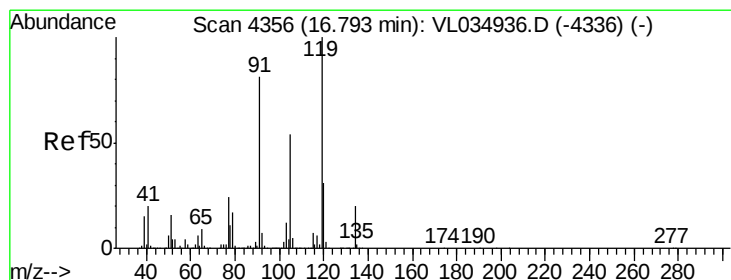
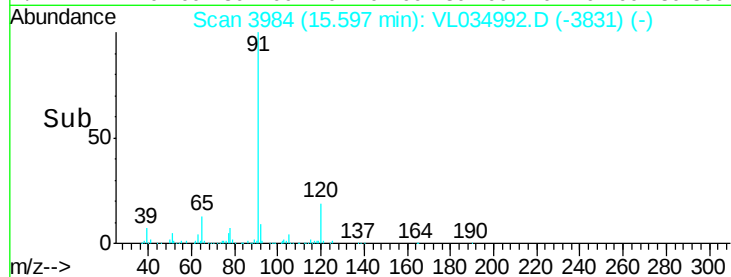
300000

200000

100000

0

Time--> 15.58 15.60 15.62



#65

tert-Butylbenzene

Concen: 0.725 ppbv

RT: 16.80 min Scan# 4357

Delta R.T. 0.00 min

Lab File: VL034992.D

Acq: 12 May 2020 18:23

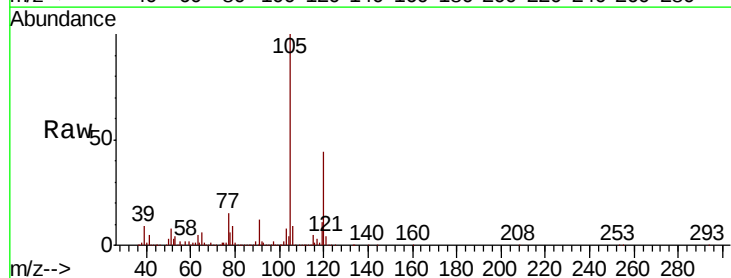
Tgt Ion:119 Resp: 237118

Ion Ratio Lower Upper

119 100

91 106.9 67.5 101.3#

134 0.4 16.1 24.1#



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V

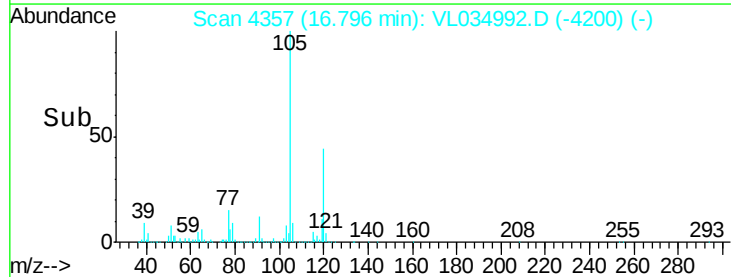
150000

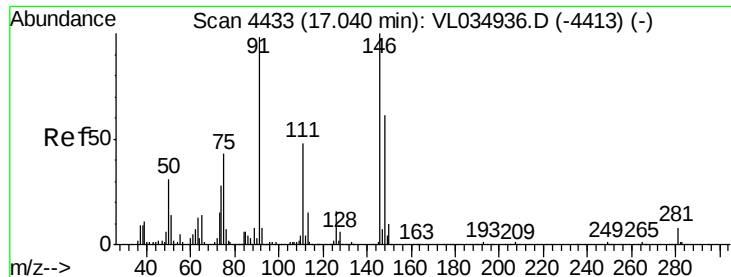
100000

50000

0

Time--> 16.70 16.75 16.80 16.85





#66

Benzyl Chloride

Concen: 0.375 ppbv

RT: 17.24 min Scan# 4495

Delta R.T. 0.20 min

Lab File: VL034992.D

Acq: 12 May 2020 18:23

Instrument :

MSVOA_L

ClientSampleId :

IA-2

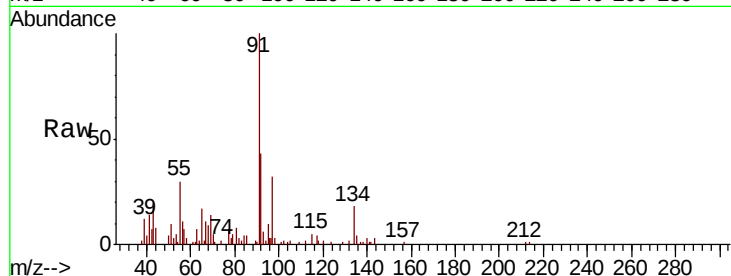
Tot Ion: 91 Resp: 41597

Ion Ratio Lower Upper

91 100

126 0.0 13.8 20.6#

128 1.2 4.3 6.5#

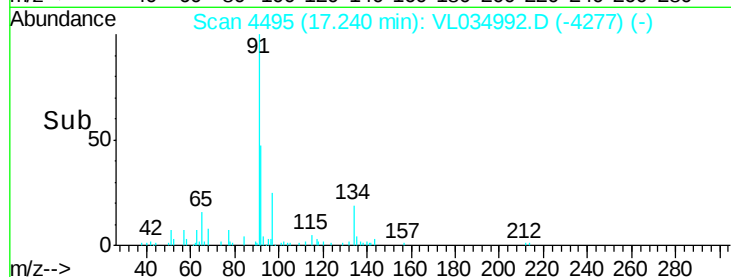


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V

Time-->



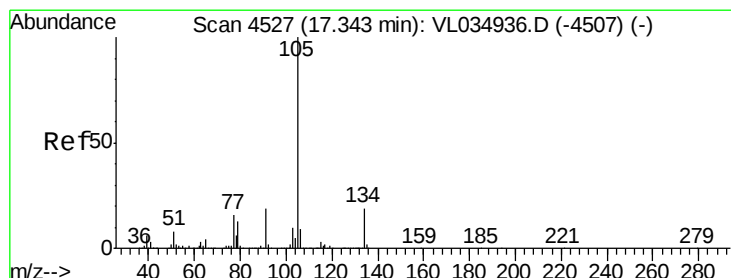
Abundance

Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V

Time-->



#67

sec-Butylbenzene

Concen: 0.099 ppbv

RT: 17.33 min Scan# 4523

Delta R.T. -0.01 min

Lab File: VL034992.D

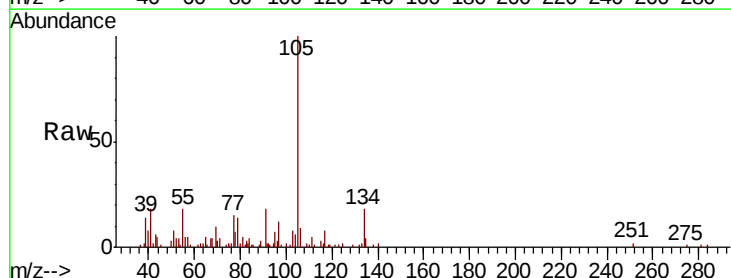
Acq: 12 May 2020 18:23

Tgt Ion: 105 Resp: 46137

Ion Ratio Lower Upper

105 100

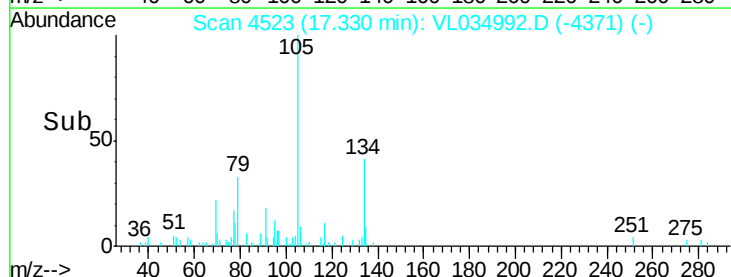
134 31.5 14.8 22.2#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

Time-->

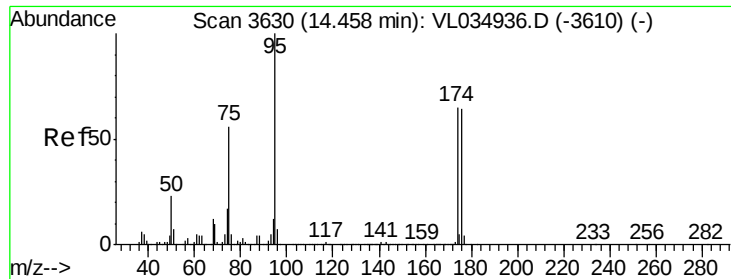


Abundance

Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

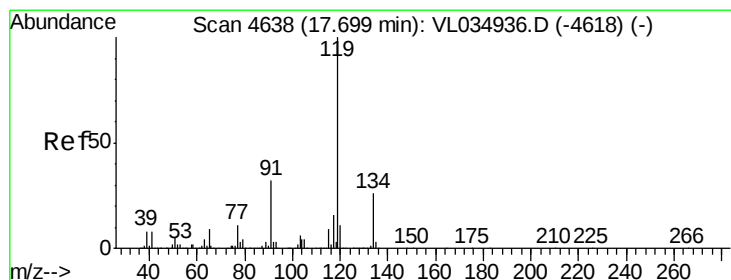
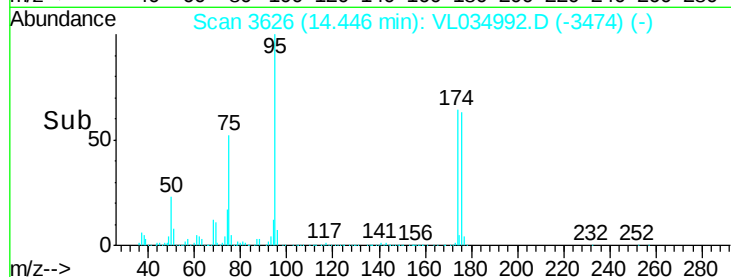
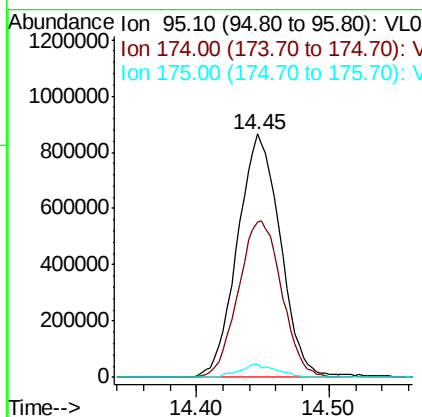
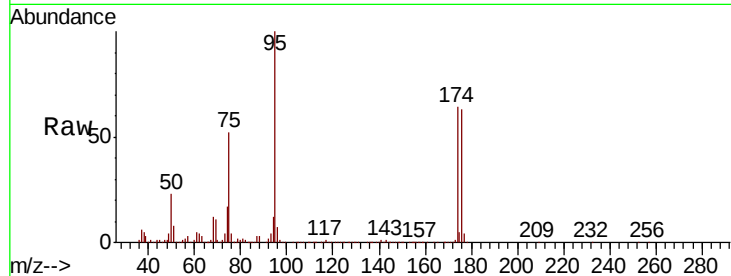
Time-->



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.166 ppbv
 RT: 14.45 min Scan# 3626
 Delta R.T. -0.01 min
 Lab File: VL034992.D
 Acq: 12 May 2020 18:23

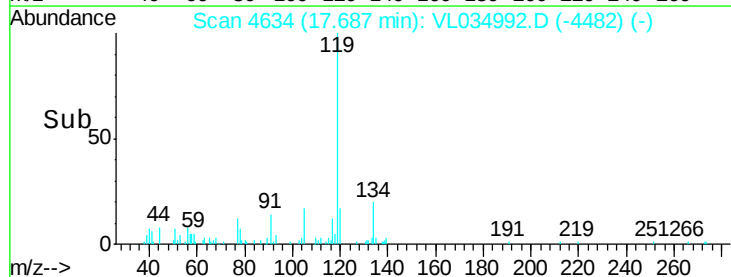
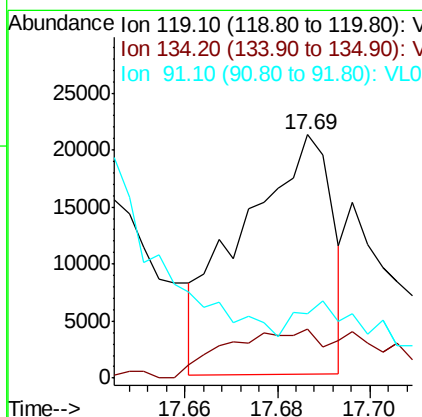
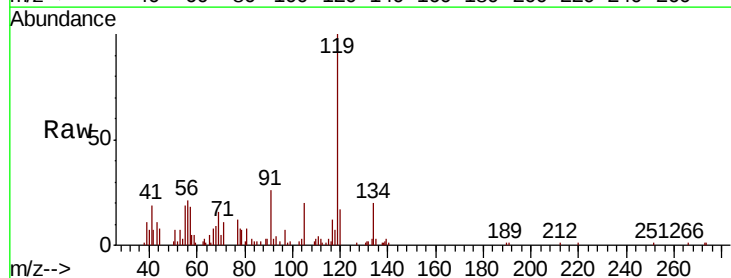
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2

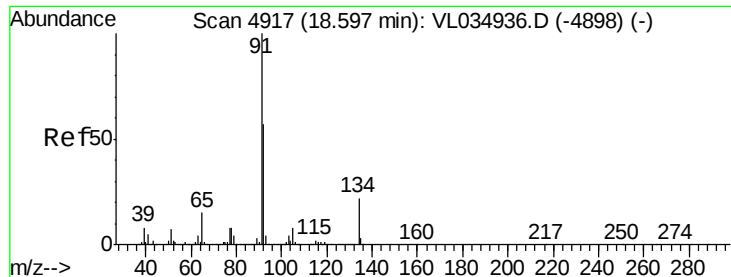
Tot Ion: 95 Resp: 1935882
 Ion Ratio Lower Upper
 95 100
 174 66.0 51.5 77.3
 175 4.8 3.8 5.8



#69
 p-Isopropyltoluene
 Concen: 0.074 ppbv
 RT: 17.69 min Scan# 4634
 Delta R.T. -0.01 min
 Lab File: VL034992.D
 Acq: 12 May 2020 18:23

Tgt Ion: 119 Resp: 28044
 Ion Ratio Lower Upper
 119 100
 134 35.3 20.3 30.5#
 91 0.0 24.6 36.8#

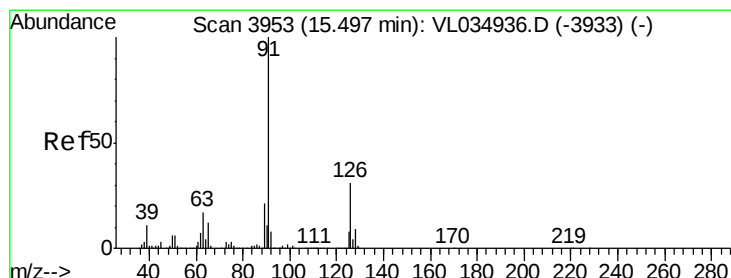
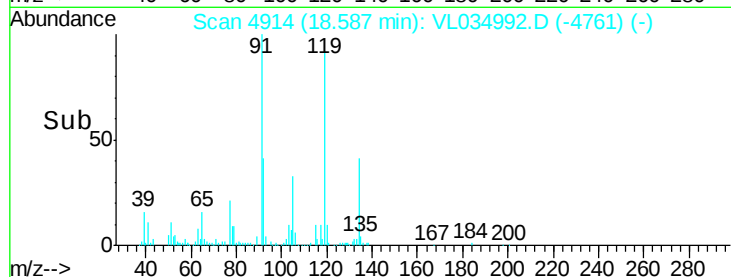
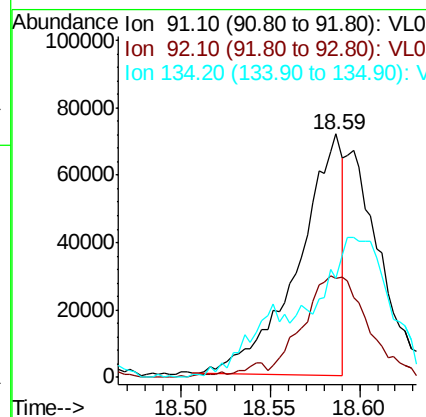
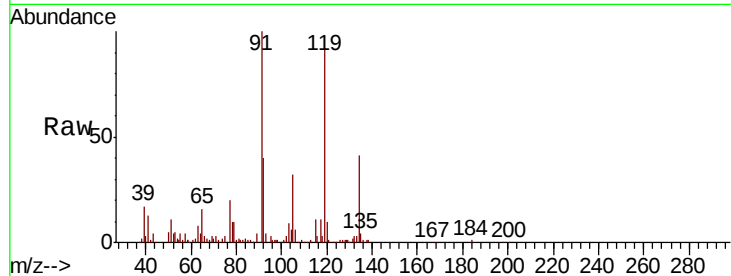




#70
n-Butylbenzene
Concen: 0.307 ppbv
RT: 18.59 min Scan# 4914
Delta R.T. -0.01 min
Lab File: VL034992.D
Acq: 12 May 2020 18:23

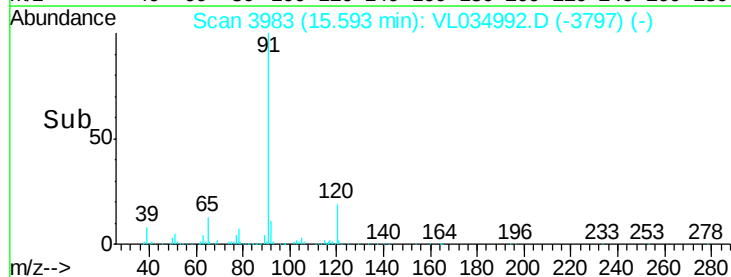
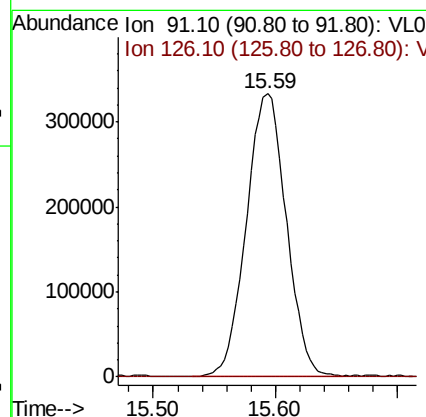
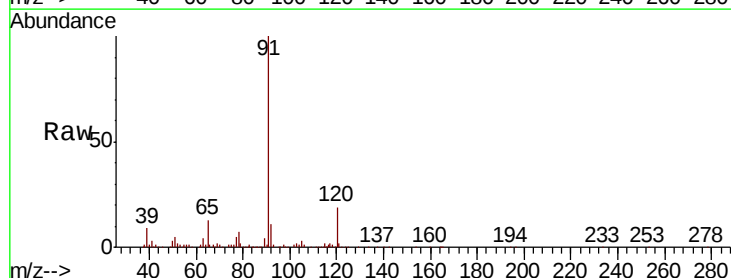
Instrument :
MSVOA_L
ClientSampleID :
IA-2

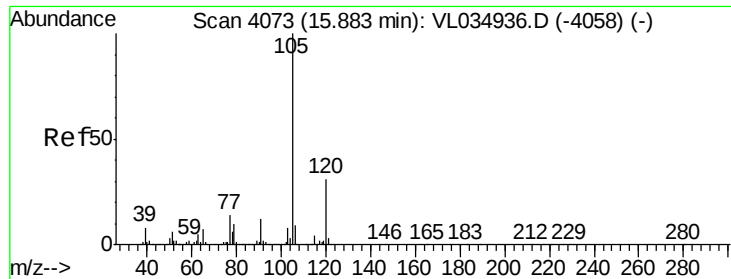
Tot Ion: 91 Resp: 123429
Ion Ratio Lower Upper
91 100
92 65.9 44.4 66.6
134 0.0 18.0 27.0#



#71
2-Chlorotoluene
Concen: 2.650 ppbv
RT: 15.59 min Scan# 3983
Delta R.T. 0.10 min
Lab File: VL034992.D
Acq: 12 May 2020 18:23

Tgt Ion: 91 Resp: 754400
Ion Ratio Lower Upper
91 100
126 0.1 12.0 47.8#





#72

4-Ethyltoluene

Concen: 2.484 ppbv

RT: 15.87 min Scan# 4069

Delta R.T. -0.01 min

Lab File: VL034992.D

Acq: 12 May 2020 18:23

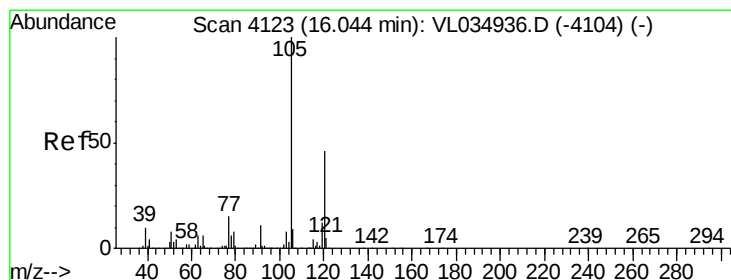
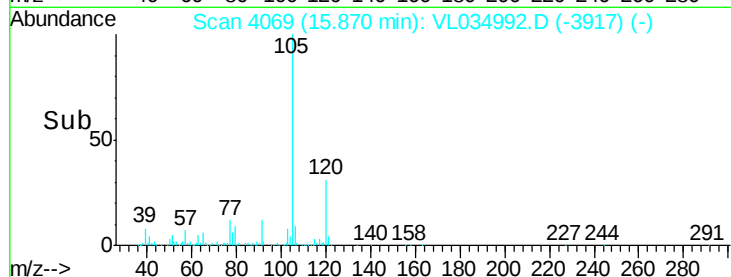
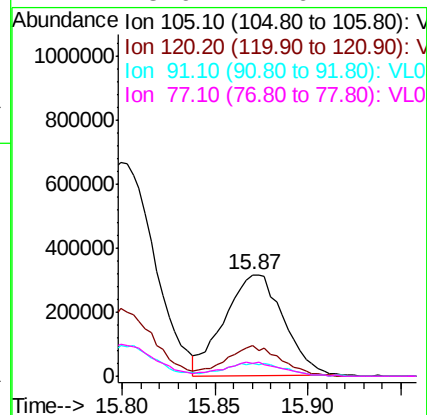
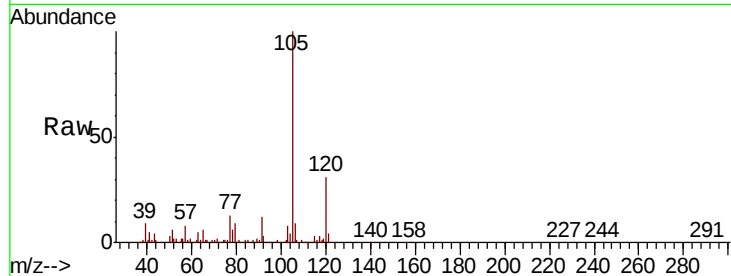
Instrument :

MSVOA_L

ClientSampleId :

IA-2

Tot Ion:105	Resp:	700069
Ion Ratio	Lower	Upper
105	100	
120	28.8	23.8 35.8
91	12.8	10.6 15.8
77	13.9	11.6 17.4



#73

1,3,5-Trimethylbenzene

Concen: 2.238 ppbv

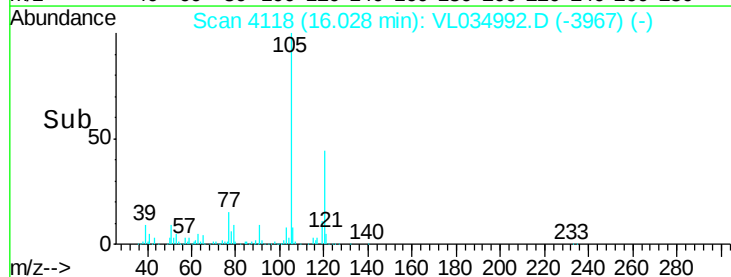
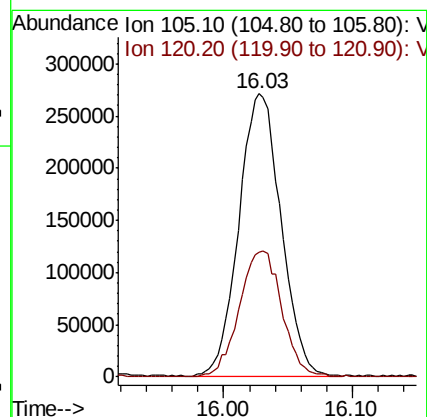
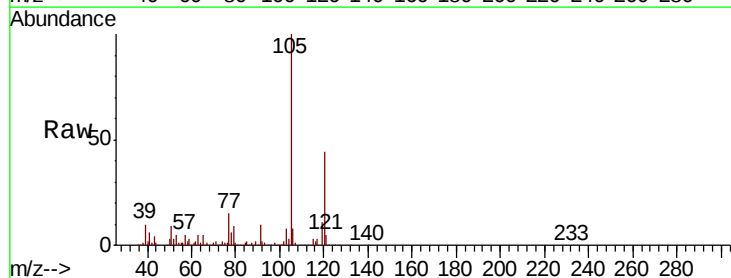
RT: 16.03 min Scan# 4118

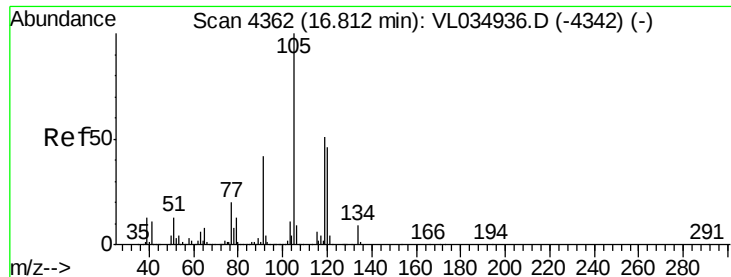
Delta R.T. -0.02 min

Lab File: VL034992.D

Acq: 12 May 2020 18:23

Tgt Ion:105	Resp:	613638
Ion Ratio	Lower	Upper
105	100	
120	43.9	36.4 54.6





#74

1,2,4-Trimethylbenzene

Concen: 7.199 ppbv

RT: 16.79 min Scan# 4356

Delta R.T. -0.02 min

Lab File: VL034992.D

Acq: 12 May 2020 18:23

Instrument :

MSVOA_L

ClientSampled :

IA-2

Tot Ion:105 Resp: 2155073

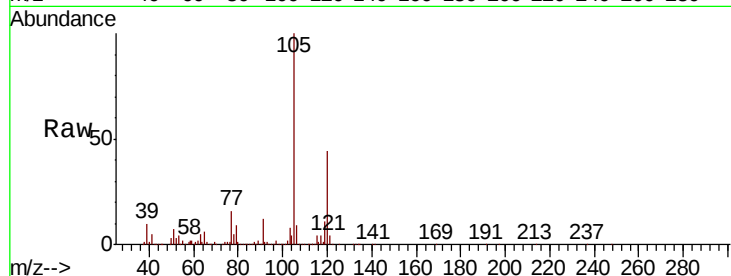
Ion Ratio Lower Upper

105 100

120 44.4 36.8 55.2

91 11.7 35.4 53.0#

77 15.8 16.2 24.2#

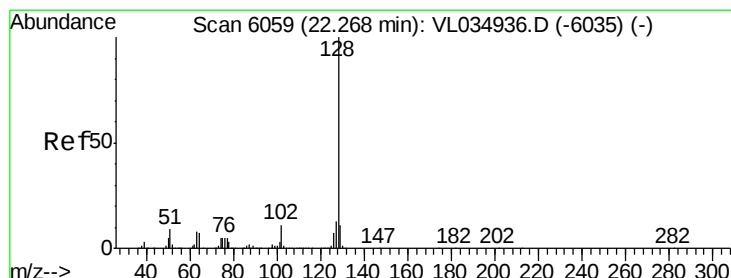
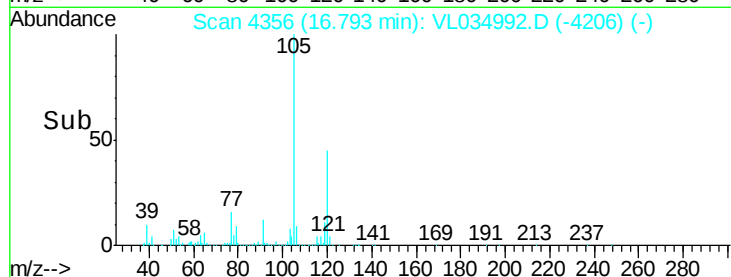
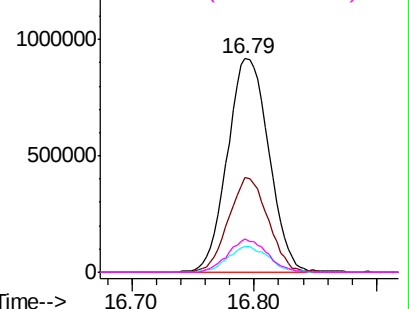


Abundance Ion 105.10 (104.80 to 105.80): V

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



#79

Naphthalene

Concen: 0.701 ppbv

RT: 22.26 min Scan# 6056

Delta R.T. -0.01 min

Lab File: VL034992.D

Acq: 12 May 2020 18:23

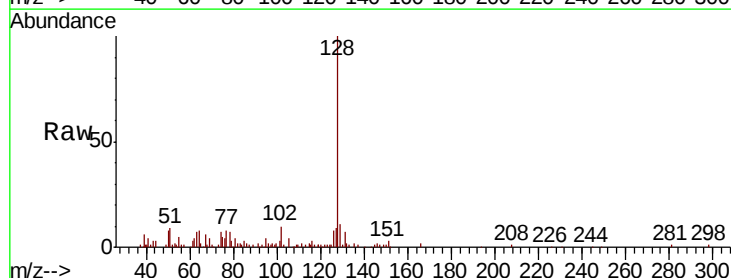
Tgt Ion:128 Resp: 163319

Ion Ratio Lower Upper

128 100

127 8.6 10.5 15.7#

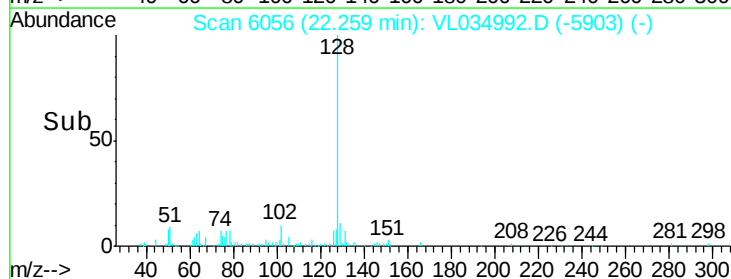
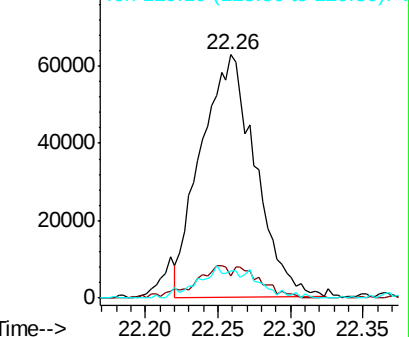
129 11.6 9.0 13.4

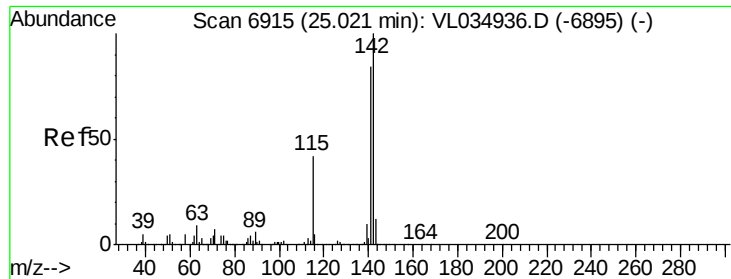


Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V





#80

Naphthalene, 2-methyl-

Concen: 0.469 ppbv

RT: 25.01 min Scan# 6913

Delta R.T. -0.01 min

Lab File: VL034992.D

Acq: 12 May 2020 18:23

Instrument :

MSVOA_L

ClientSampleId :

IA-2

Tot Ion:142 Resp: 26856

Ion Ratio Lower Upper

142 100

141 93.0 68.6 102.8

115 74.2 33.9 50.9#

