

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080621\
 Data File : VL037362.D
 Acq On : 7 Aug 2021 3:19
 Operator : SY/AP
 Sample : M3157-06
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OFFSITE-DDC-INTERMEDIATE-2

Manual Integrations
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 8/10/2021 6:10:36 PM

Quant Time: Aug 07 05:47:15 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 0
 QLast Update : Fri Aug 06 17:52:04 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	829732	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2712180	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	2285076	10.00	ppbv	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.40	95	1560124	9.69	ppbv	0.00	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.90%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	43868m	0.233	ppbv	
3) Chlorodifluoromethane	2.99	51	55599m	0.336	ppbv	
4) Chloromethane	3.14	50	32010	0.566	ppbv #	81
9) Propene	3.02	41	66020	1.189	ppbv #	79
10) Heptane	8.11	43	51336m	0.398	ppbv	
11) Trichlorofluoromethane	3.95	101	32978	0.205	ppbv	85
13) Ethanol	3.61	45	221809	21.656	ppbv	94
15) Acetone	3.85	43	893279	10.331	ppbv #	89
19) Isopropyl Alcohol	3.97	45	133490m	2.551	ppbv	
20) Methylene Chloride	4.34	84	365483	5.047	ppbv	97
25) Ethyl Acetate	5.67	43	543287	2.540	ppbv	98
30) Cyclohexane	7.12	84	24383m	0.259	ppbv	
34) 2-Butanone	5.25	43	127681	1.402	ppbv	97
35) Carbon Tetrachloride	7.01	117	9864m	0.058	ppbv	
36) Benzene	6.88	78	103415	0.497	ppbv	94
44) 2,2,4-Trimethylpentane	7.86	57	95822m	0.276	ppbv	
50) 4-Methyl-2-Pentanone	8.77	43	79676m	0.638	ppbv	
52) Tetrachloroethene	11.21	164	5550m	0.056	ppbv	
53) Toluene	9.80	91	348839	1.440	ppbv	100
58) Ethyl Benzene	12.70	91	48903m	0.164	ppbv	
59) m/p-Xylene	12.96	91	120969m	0.466	ppbv	
60) o-Xylene	13.68	91	46877m	0.195	ppbv	
61) Styrene	13.52	104	19232m	0.155	ppbv	
74) 1,2,4-Trimethylbenzene	16.75	105	46752m	0.166	ppbv	

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

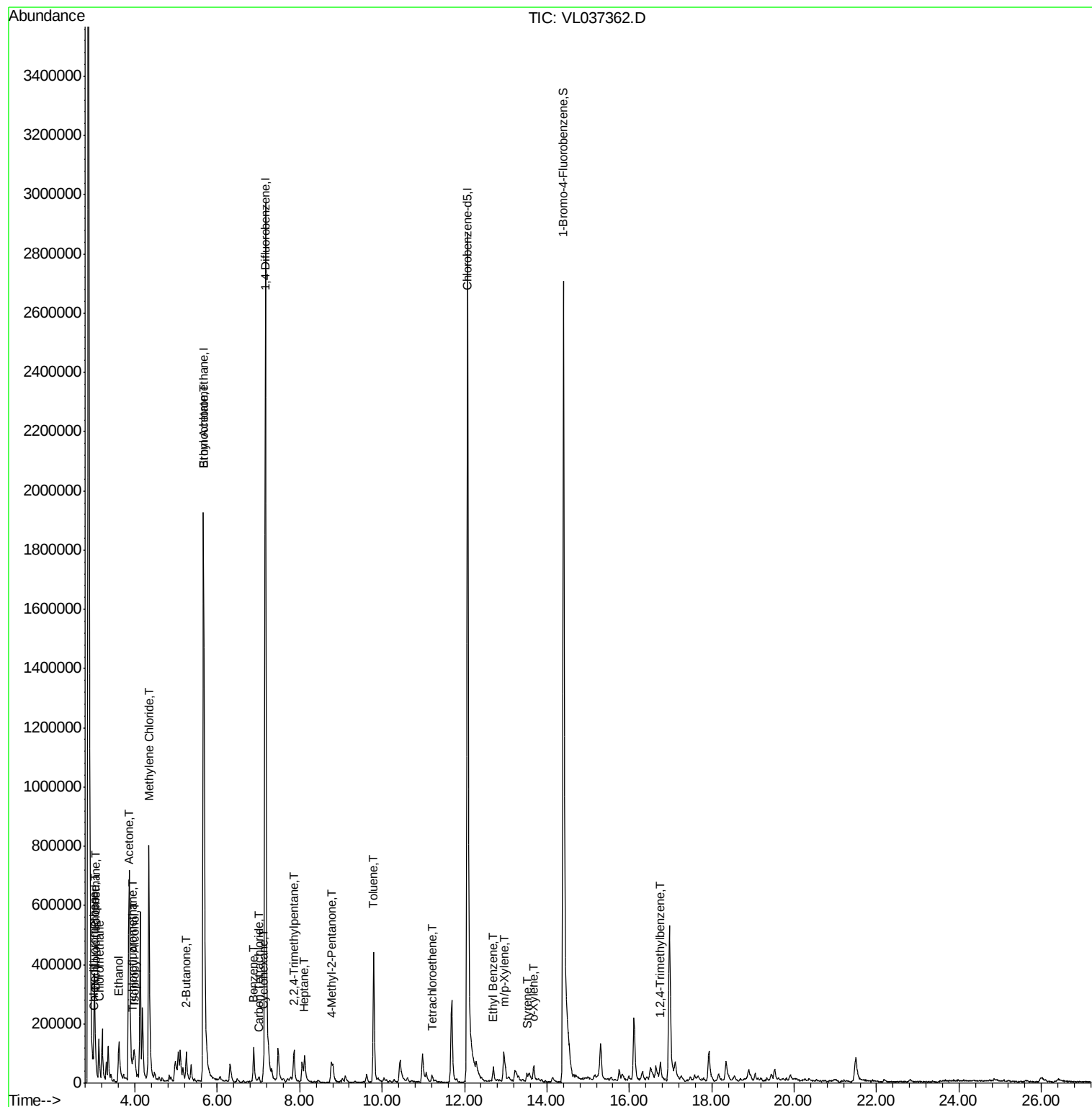
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL080621\
Data File : VL037362.D
Acq On : 7 Aug 2021 3:19
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Misc : 400mL/MSVOA L
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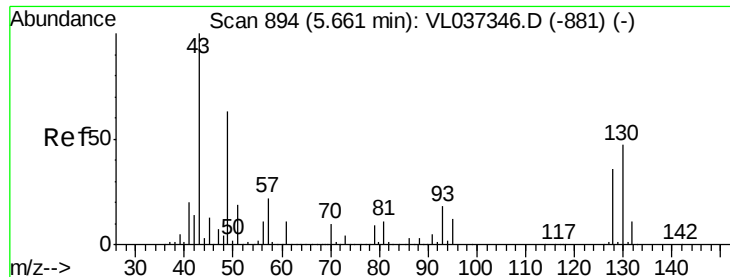
Instrument :
MSVOA_L
ClientSampleId :
OFFSITE-DDC-INTERMEDIATE-2

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Quant Time: Aug 07 05:47:15 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL080621AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Aug 06 17:52:04 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 893

Delta R.T. -0.00 min

Lab File: VL037362.D

Acq: 7 Aug 2021 3:19

Instrument :

MSVOA_L

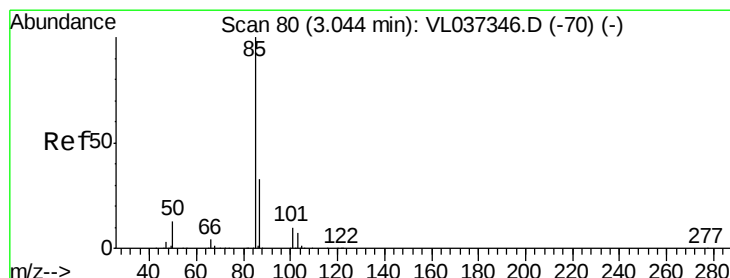
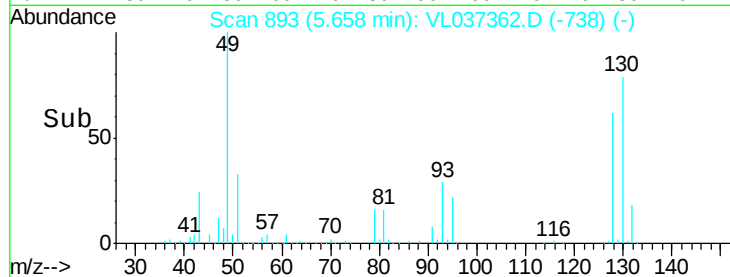
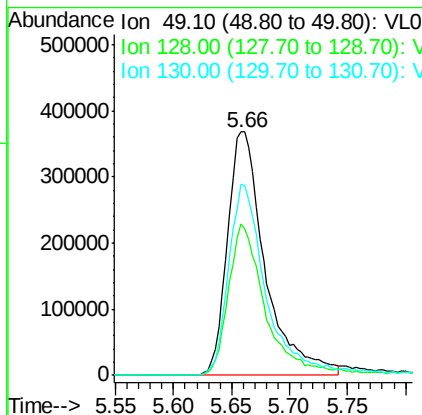
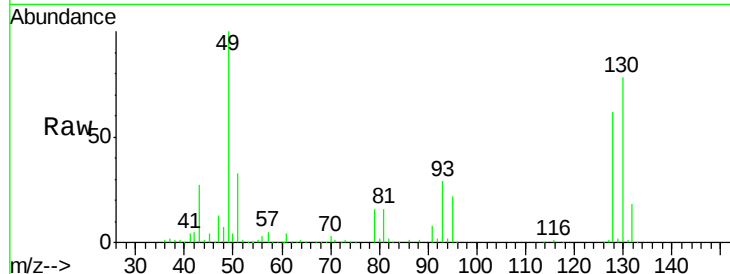
ClientSampleId :

OFFSITE-DDC-INTERMEDIATE-2

Tot Ion:	49	Resp:	829732
Ion Ratio	Lower	Upper	
49	100		
128	63.1	32.1	96.3
130	80.6	40.0	120.0

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#2

Dichlorodifluoromethane

Concen: 0.233 ppbv m

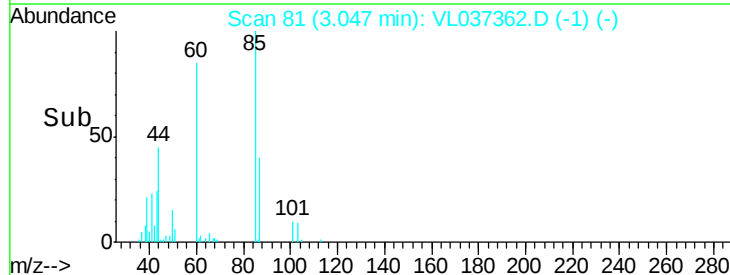
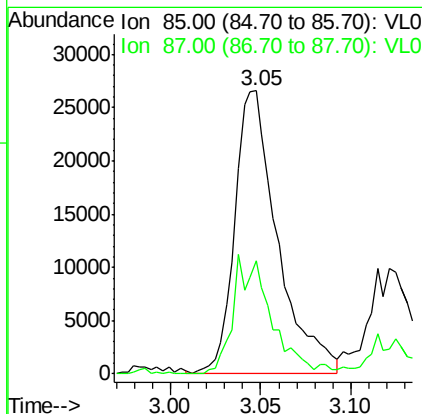
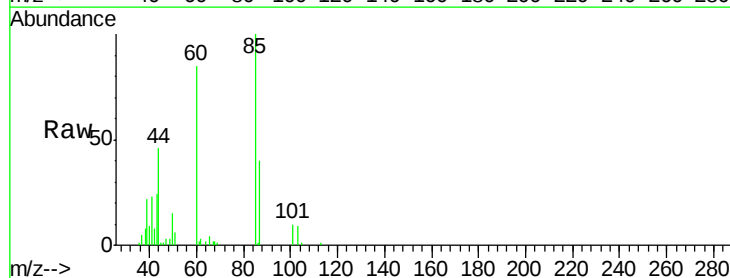
RT: 3.05 min Scan# 81

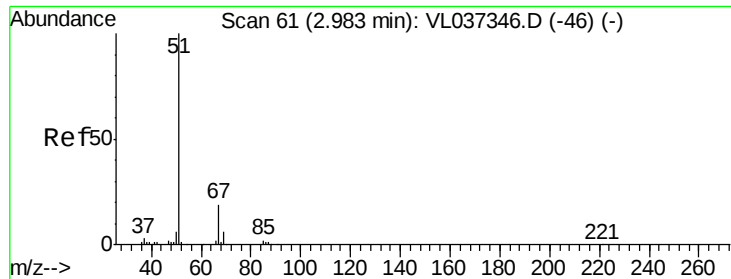
Delta R.T. 0.00 min

Lab File: VL037362.D

Acq: 7 Aug 2021 3:19

Tgt Ion:	85	Resp:	43868
Ion Ratio	Lower	Upper	
85	100		
87	40.1	26.4	39.6#





#3

Chlorodifluoromethane

Concen: 0.336 ppbv

RT: 2.99 min Scan# 62

Delta R.T. 0.00 min

Lab File: VL037362.D

Acq: 7 Aug 2021 3:19

Instrument :

MSVOA_L

ClientSampleId :

OFFSITE-DDC-INTERMEDIATE-2

Tot Ion: 51 Resp: 55599

Ion Ratio Lower Upper

51 100

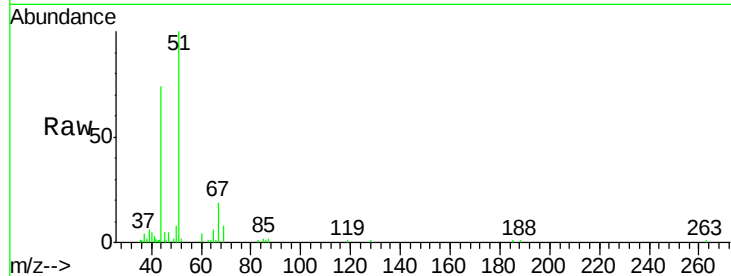
67 17.7 15.6 23.4

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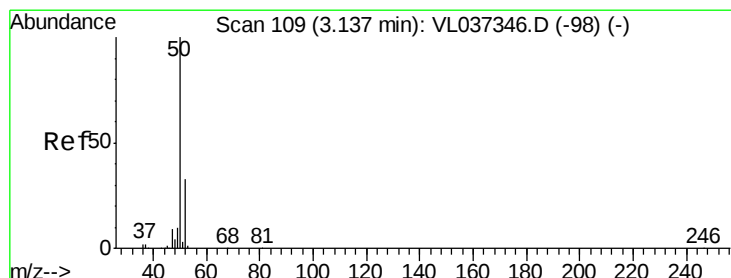
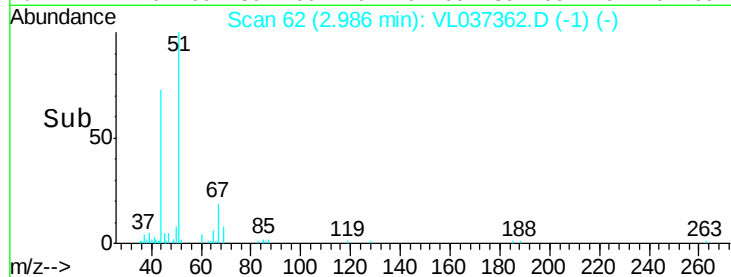
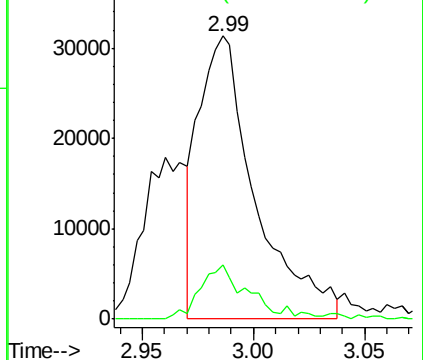
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.566 ppbv

RT: 3.14 min Scan# 109

Delta R.T. 0.00 min

Lab File: VL037362.D

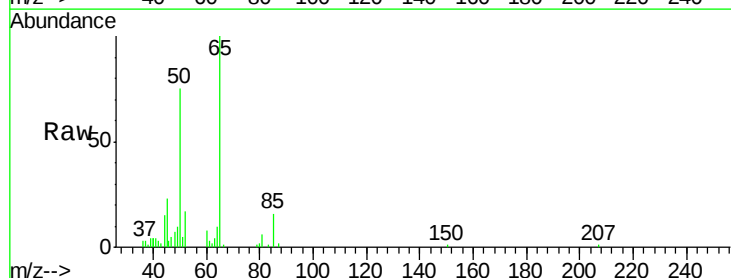
Acq: 7 Aug 2021 3:19

Tgt Ion: 50 Resp: 32010

Ion Ratio Lower Upper

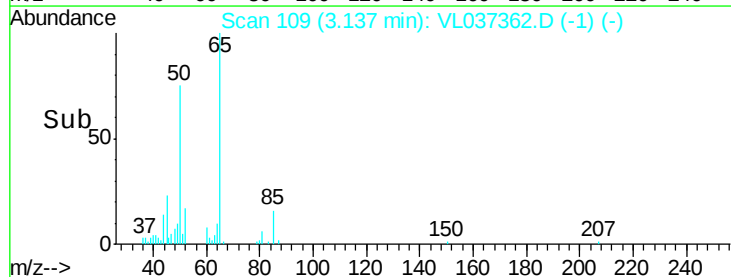
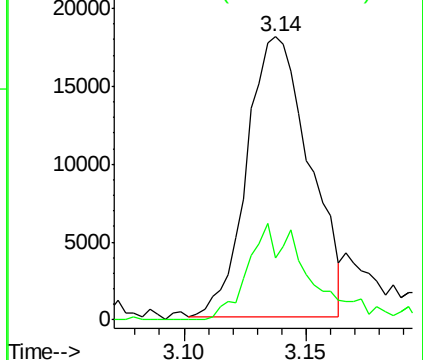
50 100

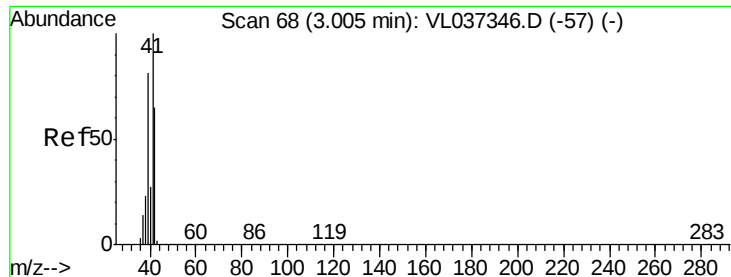
52 22.3 26.3 39.5#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 1.189 ppbv

RT: 3.02 min Scan# 71

Delta R.T. 0.01 min

Lab File: VL037362.D

Acq: 7 Aug 2021 3:19

Instrument :

MSVOA_L

ClientSampleId :

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Tot Ion: 41 Resp: 66020

Ion Ratio Lower Upper

41 100

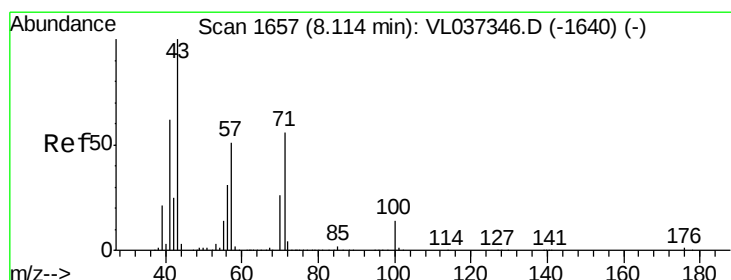
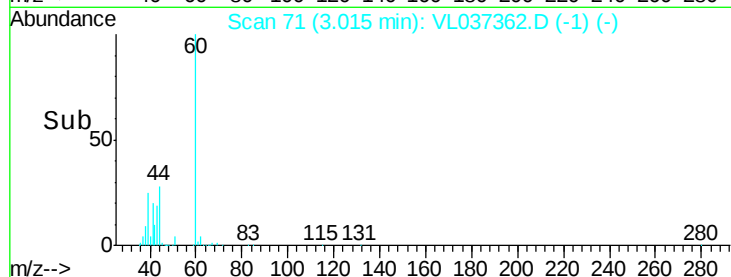
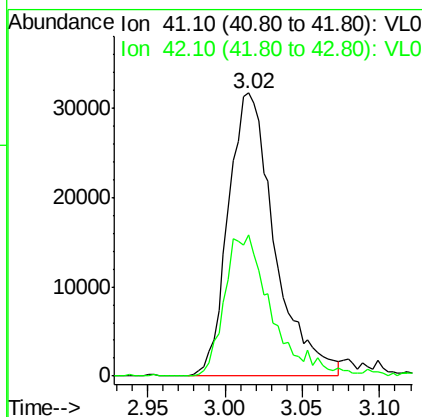
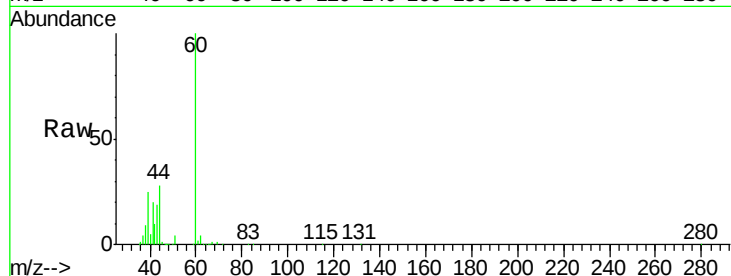
42 51.2 54.3 81.5#

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#10

Heptane

Concen: 0.398 ppbv m

RT: 8.11 min Scan# 1655

Delta R.T. -0.01 min

Lab File: VL037362.D

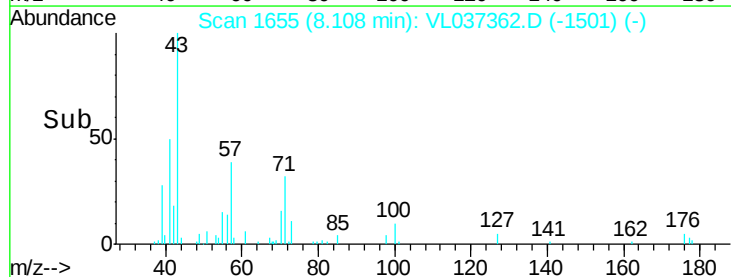
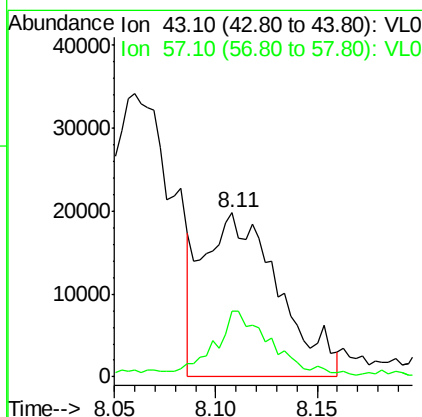
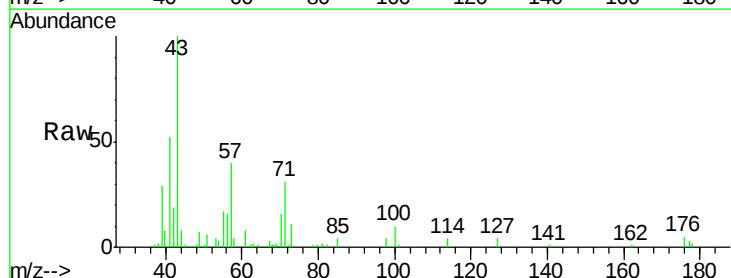
Acq: 7 Aug 2021 3:19

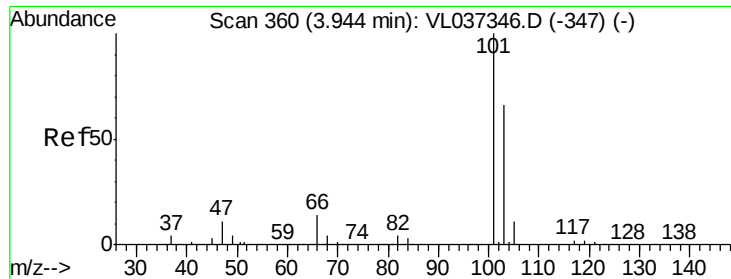
Tgt Ion: 43 Resp: 51336

Ion Ratio Lower Upper

43 100

57 34.0 41.6 62.4#





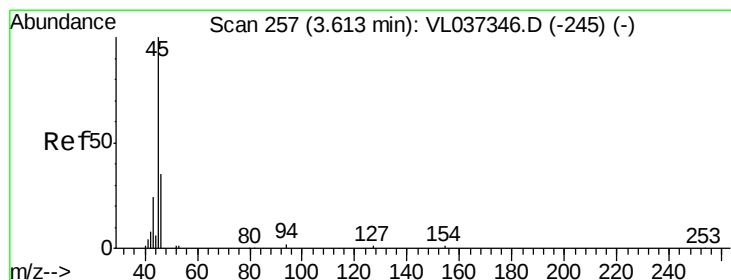
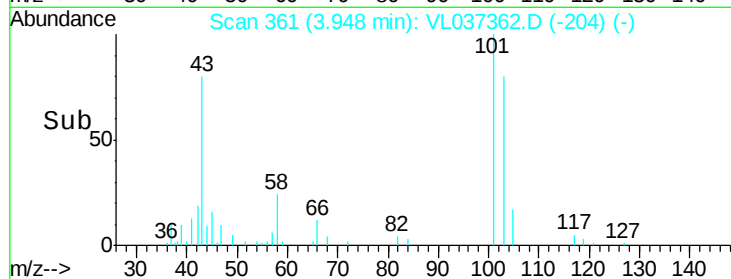
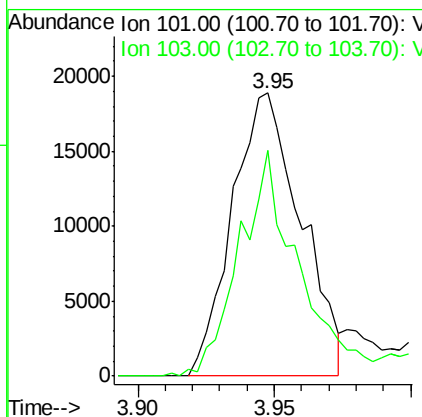
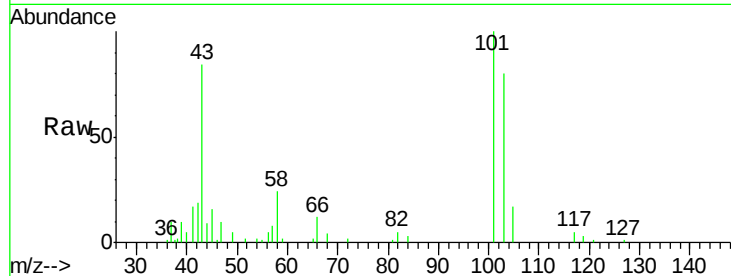
#11
Trichlorofluoromethane
Concen: 0.205 ppbv
RT: 3.95 min Scan# 361
Delta R.T. 0.00 min
Lab File: VL037362.D
Acq: 7 Aug 2021 3:19

Instrument :
MSVOA_L
ClientSampleId :
OFFSITE-DDC-INTERMEDIATE-2

Tot Ion:101 Resp: 32978
Ion Ratio Lower Upper
101 100
103 77.6 52.5 78.7

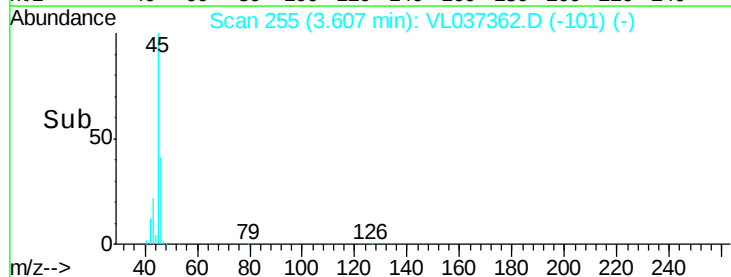
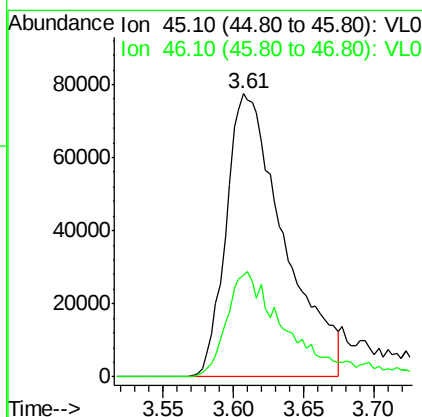
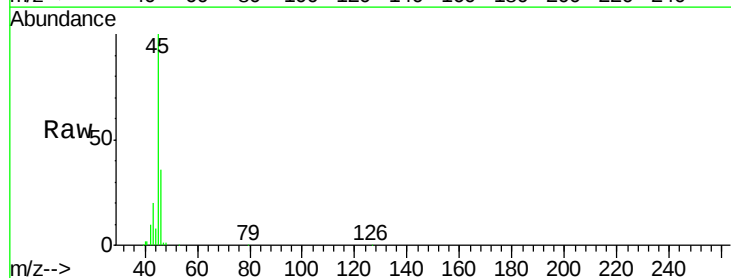
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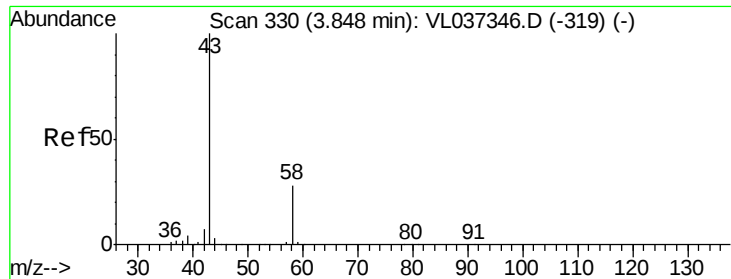
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#13
Ethanol
Concen: 21.656 ppbv
RT: 3.61 min Scan# 255
Delta R.T. -0.01 min
Lab File: VL037362.D
Acq: 7 Aug 2021 3:19

Tgt Ion: 45 Resp: 221809
Ion Ratio Lower Upper
45 100
46 42.7 15.7 62.9





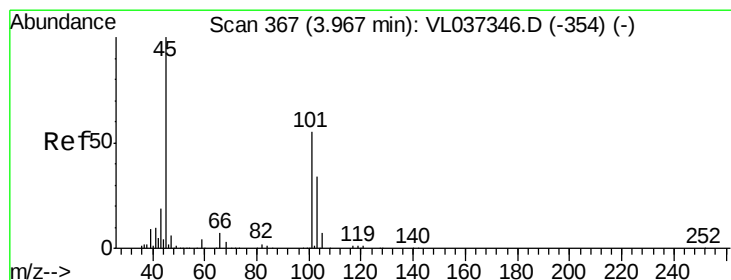
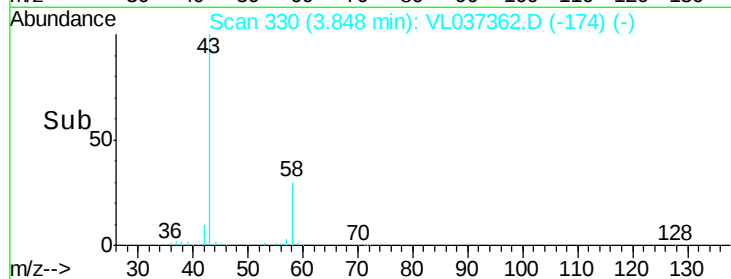
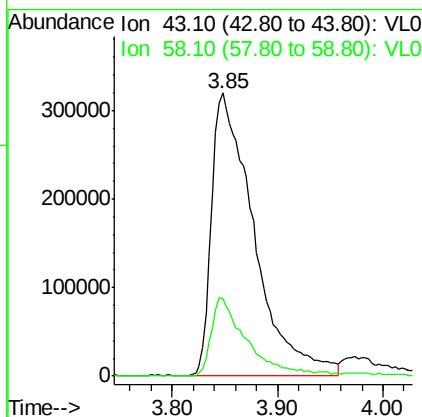
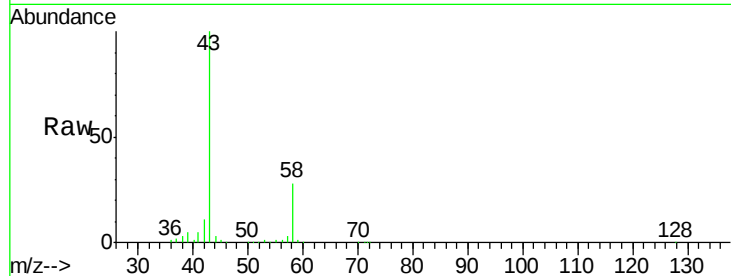
#15
Acetone
Concen: 10.331 ppbv
RT: 3.85 min Scan# 330
Delta R.T. 0.00 min
Lab File: VL037362.D
Acq: 7 Aug 2021 3:19

Instrument :
MSVOA_L
ClientSampleId :
OFFSITE-DDC-INTERMEDIATE-2

Tot Ion: 43 Resp: 893279
Ion Ratio Lower Upper
43 100
58 24.5 24.6 36.8#

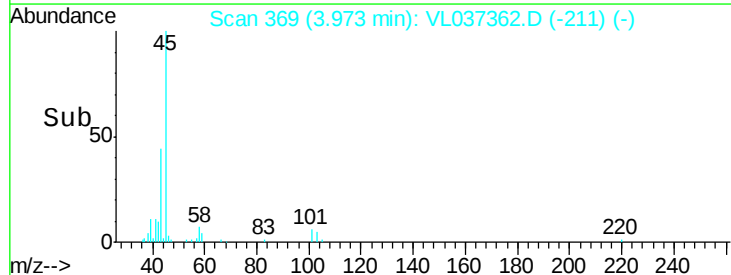
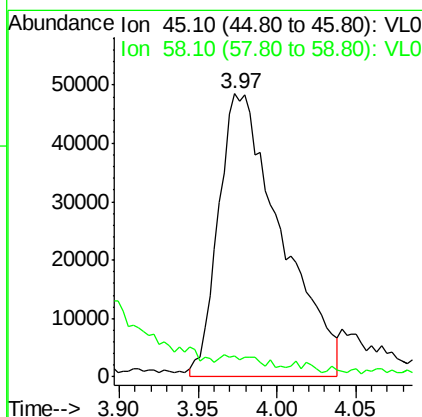
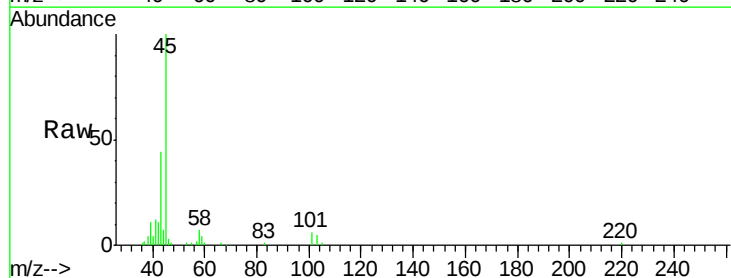
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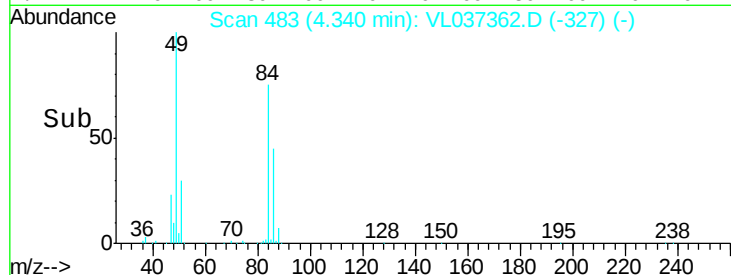
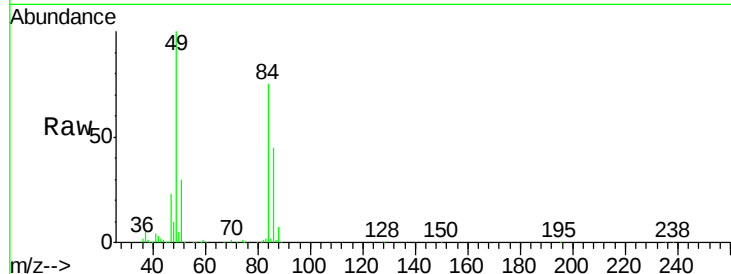
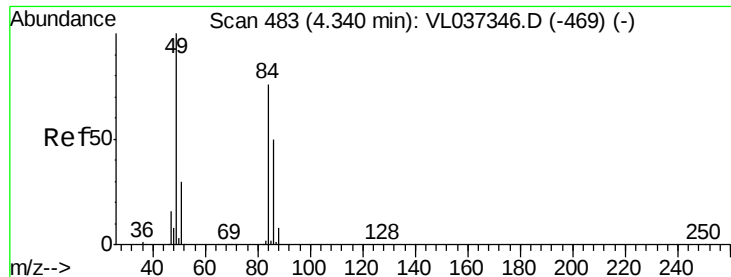
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#19
Isopropyl Alcohol
Concen: 2.551 ppbv m
RT: 3.97 min Scan# 369
Delta R.T. 0.01 min
Lab File: VL037362.D
Acq: 7 Aug 2021 3:19

Tgt Ion: 45 Resp: 133490
Ion Ratio Lower Upper
45 100
58 0.0 1.8 2.8#





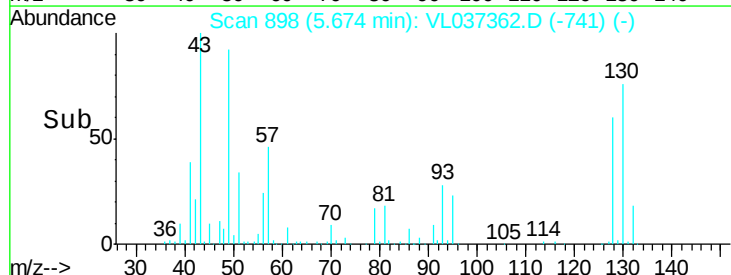
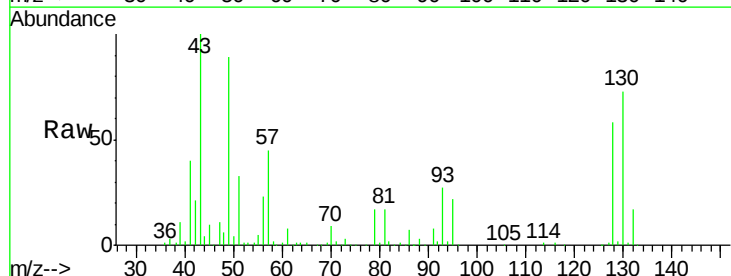
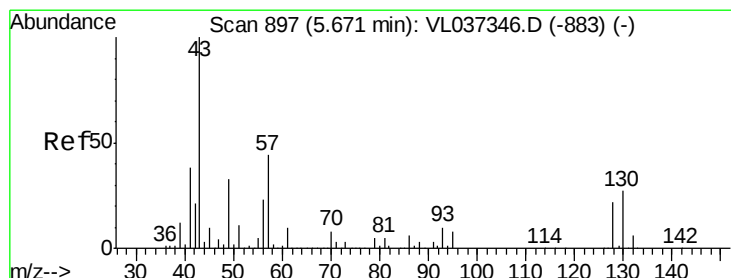
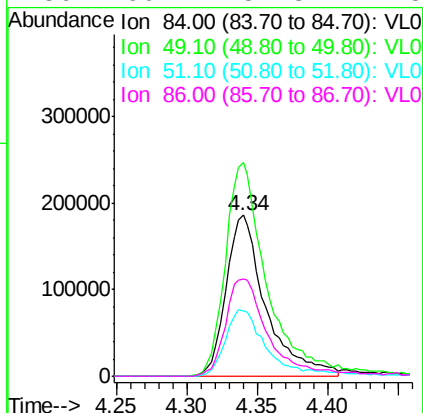
#20
Methvlene Chloride
Concen: 5.047 ppbv
RT: 4.34 min Scan# 483
Delta R.T. 0.00 min
Lab File: VL037362.D
Acq: 7 Aug 2021 3:19

Tot Ion	84	Resp	365483
Ion Ratio	Lower	Upper	
84	100		
49	132.5	107.3	160.9
51	40.1	33.0	49.4
86	60.2	51.8	77.8

Instrument :
MSVOA_L
ClientSampleId :
OFFSITE-DDC-INTERMEDIATE-2

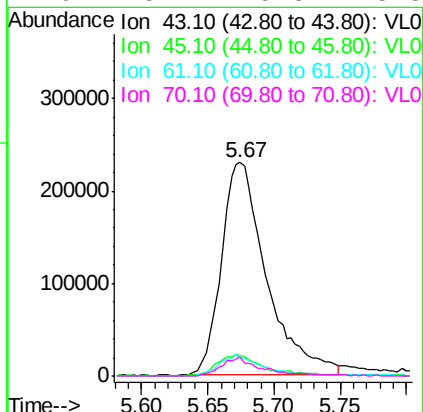
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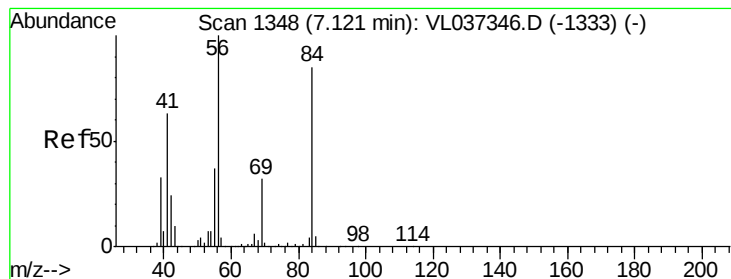
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#25
Ethyl Acetate
Concen: 2.540 ppbv
RT: 5.67 min Scan# 898
Delta R.T. 0.00 min
Lab File: VL037362.D
Acq: 7 Aug 2021 3:19

Tgt Ion	43	Resp	543287
Ion Ratio	Lower	Upper	
43	100		
45	10.9	7.7	11.5
61	9.9	8.2	12.2
70	8.1	5.8	8.8





#30

Cyclohexane

Concen: 0.259 ppbv m

RT: 7.12 min Scan# 1348

Delta R.T. 0.00 min

Lab File: VL037362.D

Acq: 7 Aug 2021 3:19

Instrument :

MSVOA_L

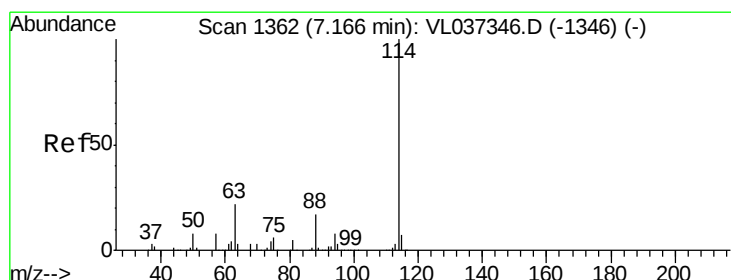
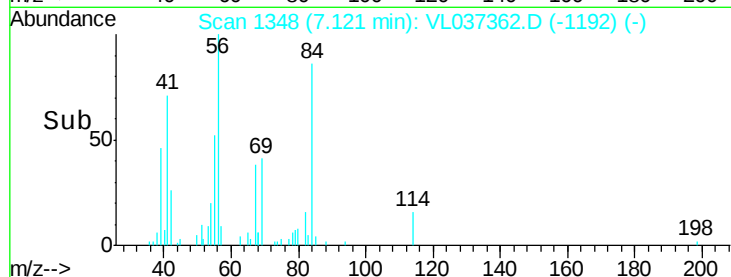
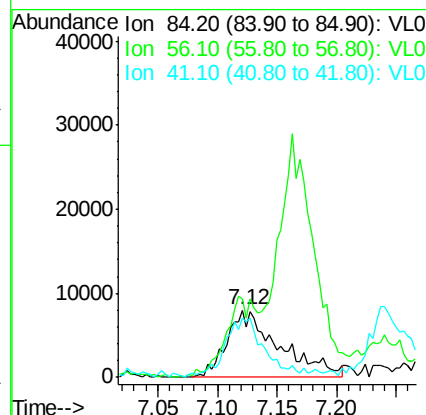
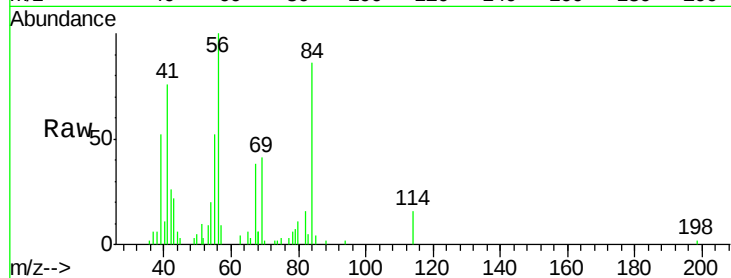
ClientSampleId :

OFFSITE-DDC-INTERMEDIATE-2

Tot Ion:	84	Resp:	24383
Ion Ratio	Lower	Upper	
84	100		
56	0.0	103.5	155.3#
41	68.3	61.4	92.2

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

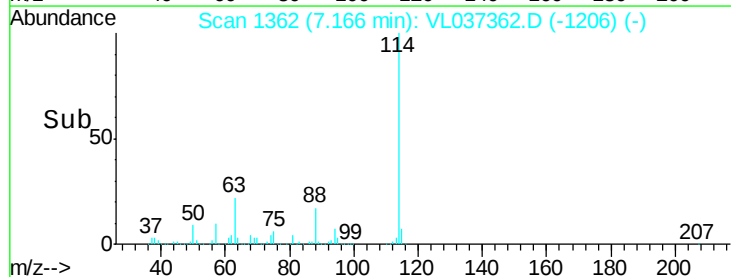
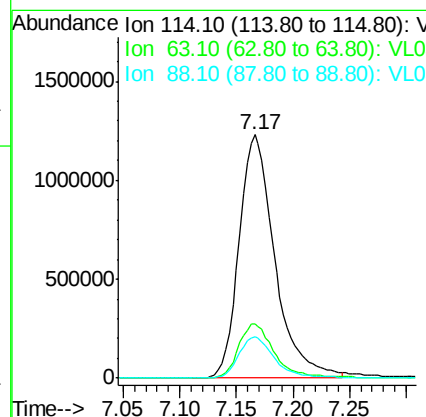
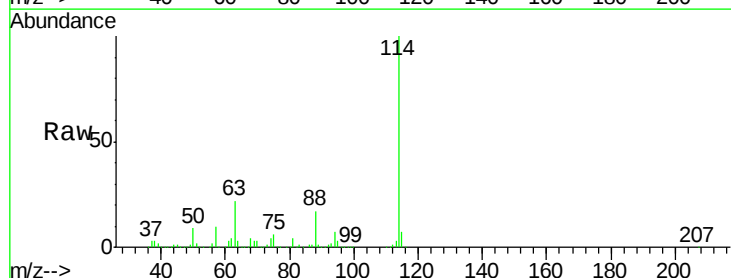
RT: 7.17 min Scan# 1362

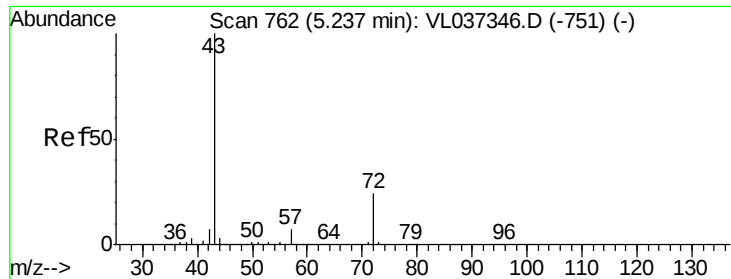
Delta R.T. 0.00 min

Lab File: VL037362.D

Acq: 7 Aug 2021 3:19

Tgt Ion:	114	Resp:	2712180
Ion Ratio	Lower	Upper	
114	100		
63	22.6	17.8	26.6
88	17.3	13.5	20.3





#34

2-Butanone

Concen: 1.402 ppbv

RT: 5.25 min Scan# 765

Delta R.T. 0.01 min

Lab File: VL037362.D

Acq: 7 Aug 2021 3:19

Instrument :

MSVOA_L

ClientSampleId :

OFFSITE-DDC-INTERMEDIATE-2

Tot Ion: 43 Resp: 127681

Ion Ratio Lower Upper

43 100

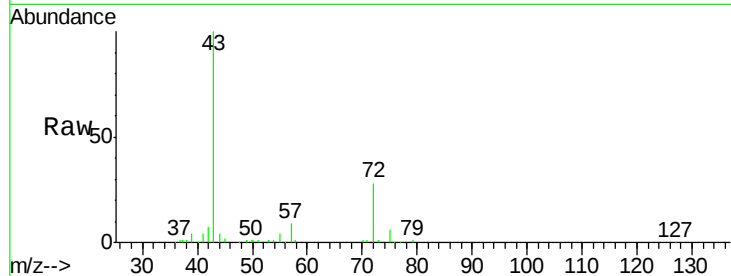
72 26.4 19.8 29.6

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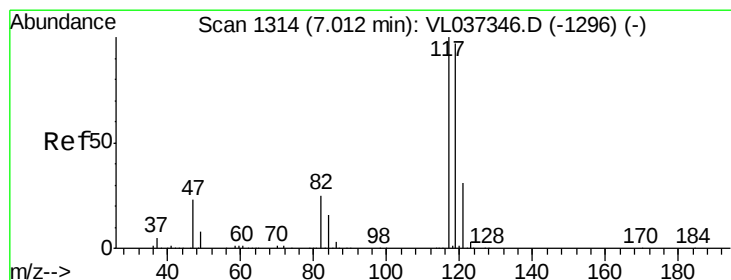
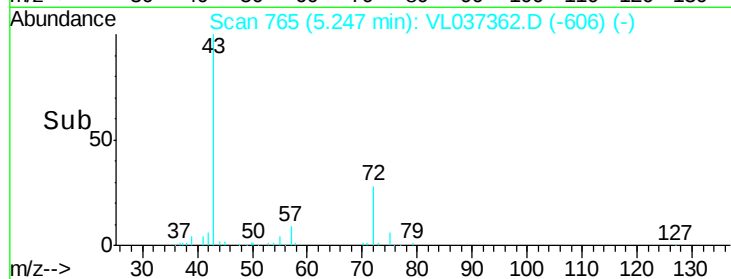
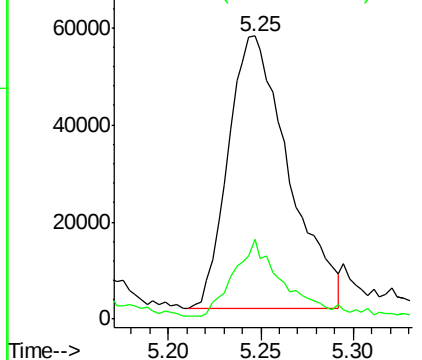
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



#35

Carbon Tetrachloride

Concen: 0.058 ppbv m

RT: 7.01 min Scan# 1314

Delta R.T. 0.00 min

Lab File: VL037362.D

Acq: 7 Aug 2021 3:19

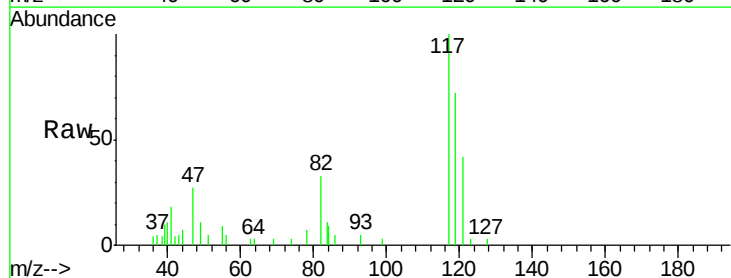
Tgt Ion: 117 Resp: 9864

Ion Ratio Lower Upper

117 100

119 71.8 77.8 116.8#

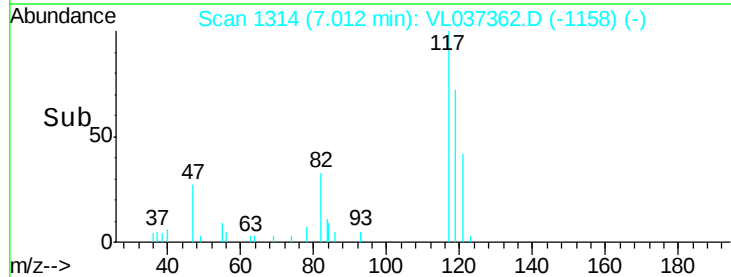
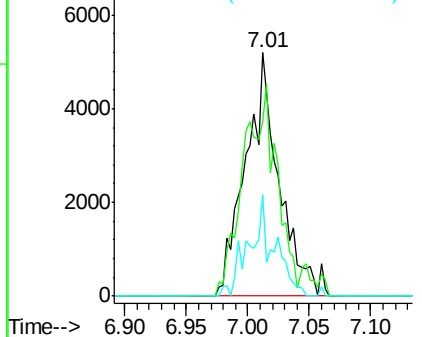
121 41.8 24.6 36.8#

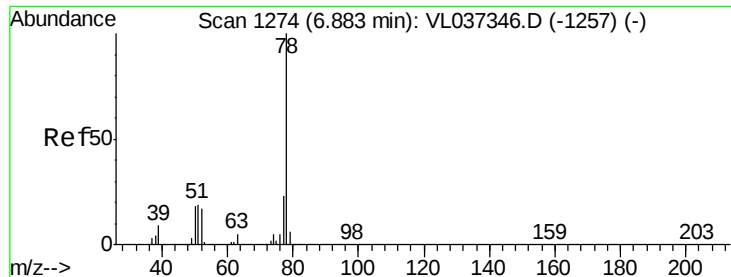


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V





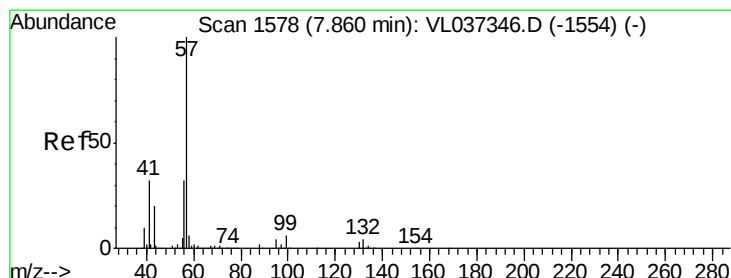
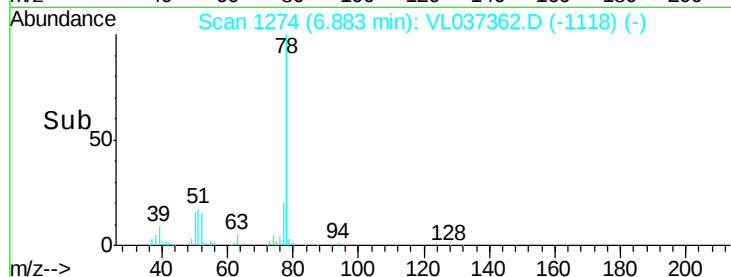
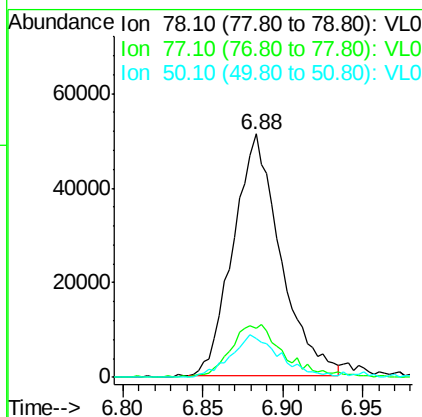
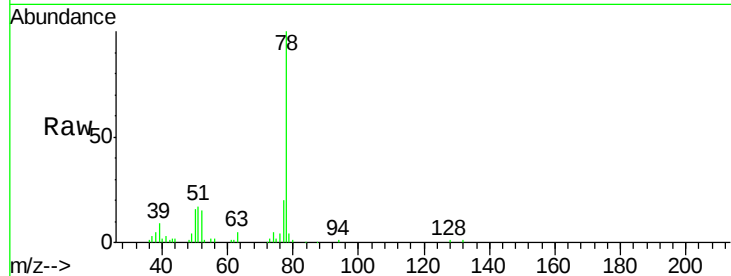
#36
Benzene
Concen: 0.497 ppbv
RT: 6.88 min Scan# 1274
Delta R.T. 0.00 min
Lab File: VL037362.D
Acq: 7 Aug 2021 3:19

Instrument :
MSVOA_L
ClientSampleId :
OFFSITE-DDC-INTERMEDIATE-2

Tot Ion	Ratio	Lower	Upper
78	100		
77	20.1	18.7	28.1
50	16.3	14.6	22.0

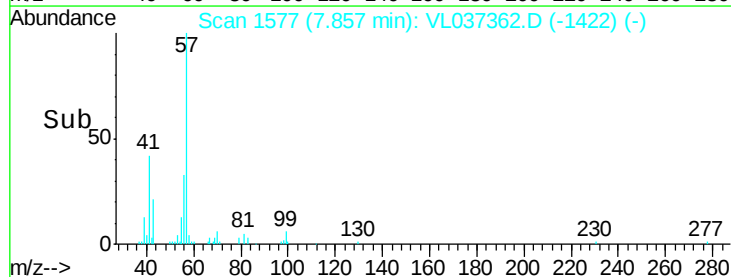
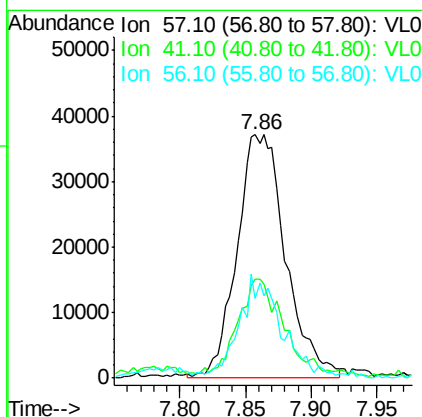
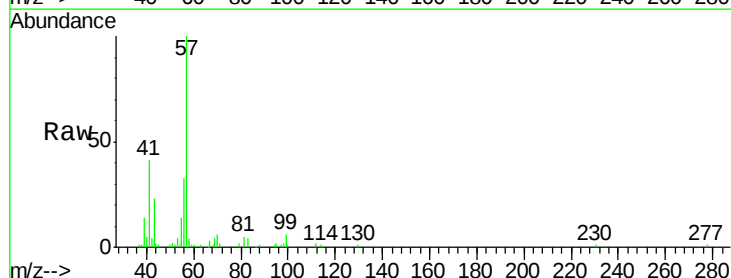
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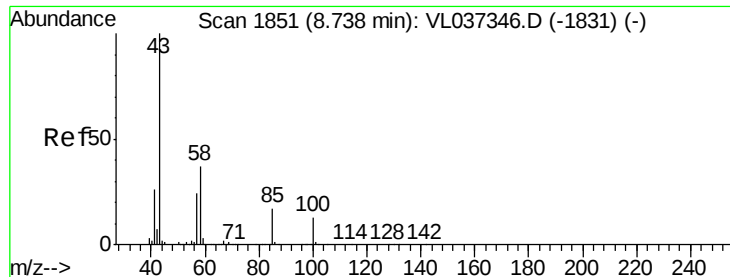
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#44
2,2,4-Trimethylpentane
Concen: 0.276 ppbv m
RT: 7.86 min Scan# 1577
Delta R.T. -0.00 min
Lab File: VL037362.D
Acq: 7 Aug 2021 3:19

Tgt Ion	Ratio	Lower	Upper
57	100		
41	0.0	26.1	39.1#
56	0.0	25.0	37.4#





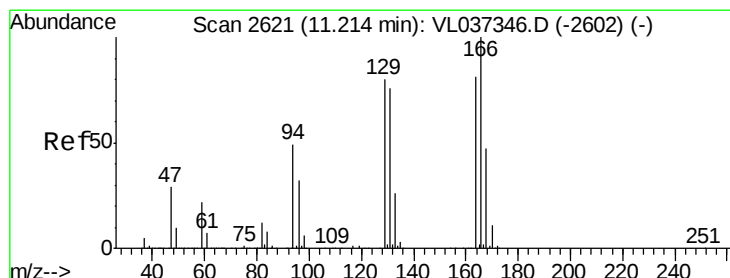
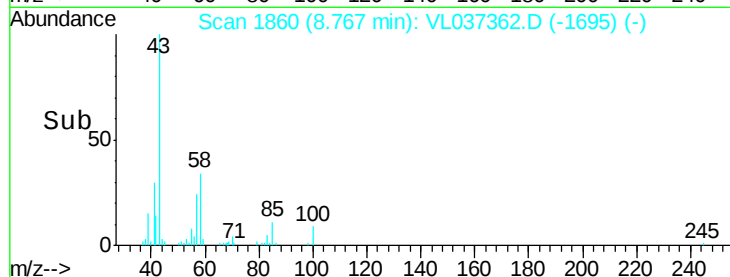
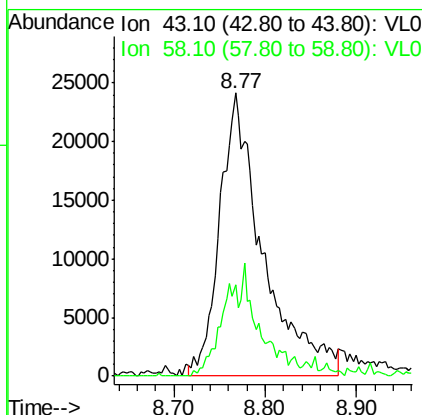
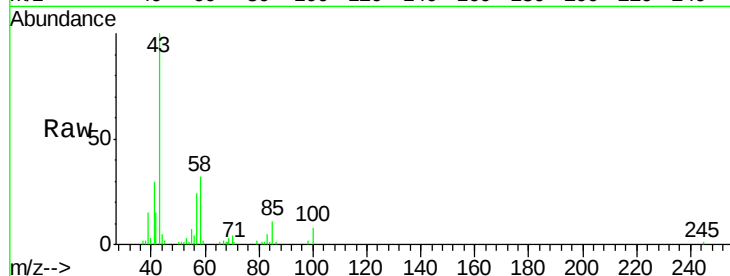
#50
4-Methyl-2-Pentanone
Concen: 0.638 ppbv m
RT: 8.77 min Scan# 1860
Delta R.T. 0.03 min
Lab File: VL037362.D
Acq: 7 Aug 2021 3:19

Instrument :
MSVOA_L
ClientSampleId :
OFFSITE-DDC-INTERMEDIATE-2

Tot Ion: 43 Resp: 79676
Ion Ratio Lower Upper
43 100
58 0.0 29.9 44.9#

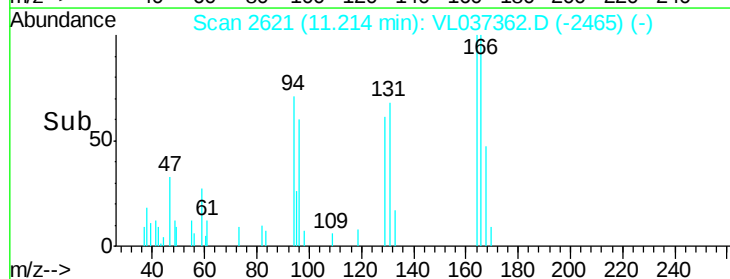
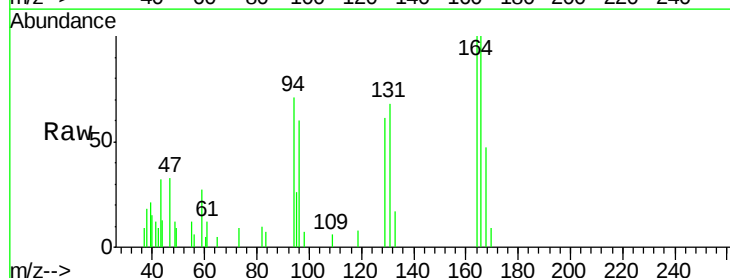
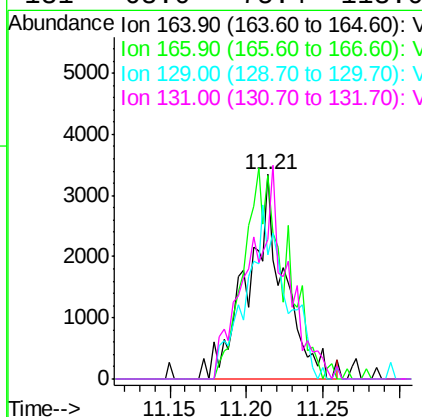
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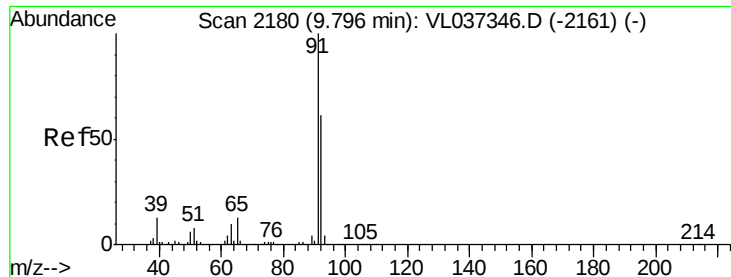
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#52
Tetrachloroethene
Concen: 0.056 ppbv m
RT: 11.21 min Scan# 2621
Delta R.T. 0.00 min
Lab File: VL037362.D
Acq: 7 Aug 2021 3:19

Tgt Ion: 164 Resp: 5550
Ion Ratio Lower Upper
164 100
166 99.8 99.4 149.0
129 60.7 79.2 118.8#
131 68.0 75.4 113.0#





#53

Toluene

Concen: 1.440 ppbv

RT: 9.80 min Scan# 2180

Delta R.T. 0.00 min

Lab File: VL037362.D

Acq: 7 Aug 2021 3:19

Instrument :

MSVOA_L

ClientSampleId :

OFFSITE-DDC-INTERMEDIATE-2

Tot Ion: 91 Resp: 348839

Ion Ratio Lower Upper

91 100

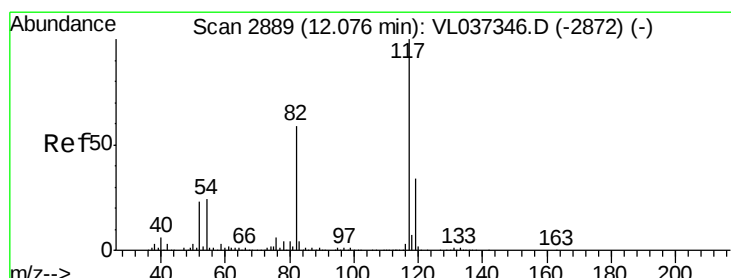
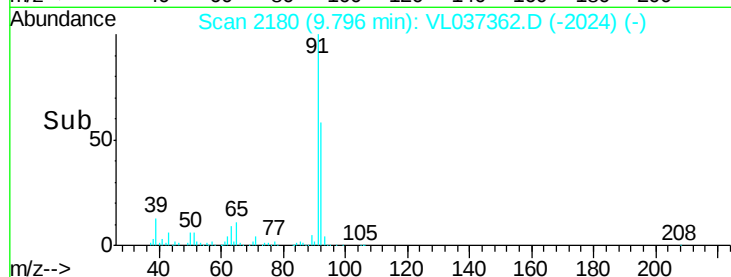
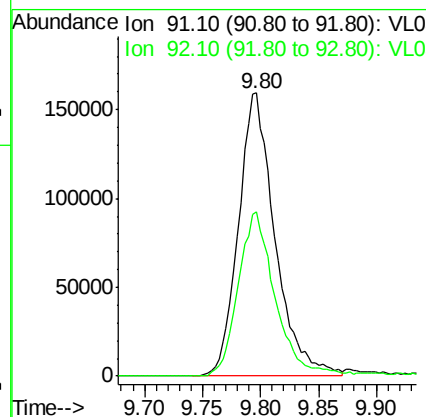
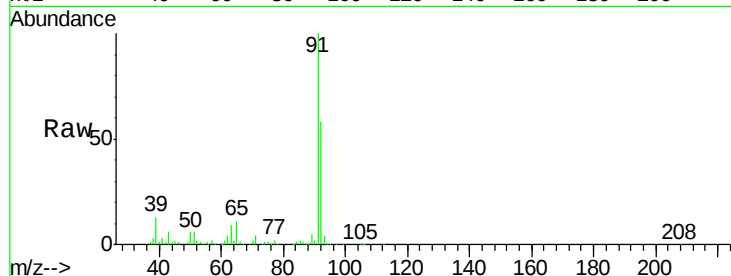
92 60.5 48.2 72.4

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2888

Delta R.T. -0.00 min

Lab File: VL037362.D

Acq: 7 Aug 2021 3:19

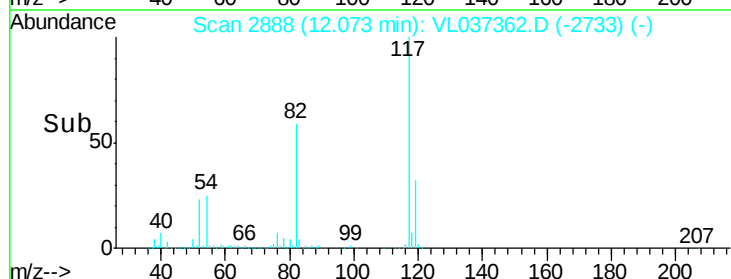
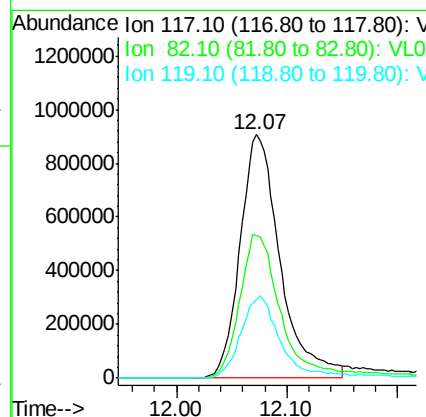
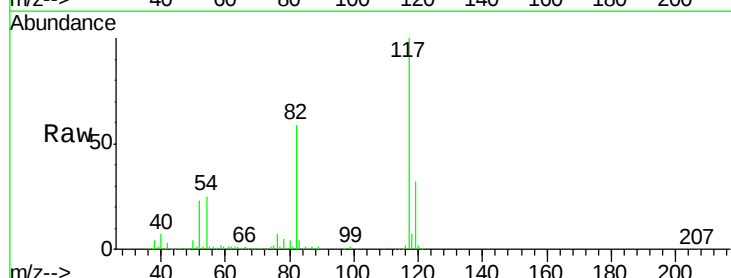
Tgt Ion: 117 Resp: 2285076

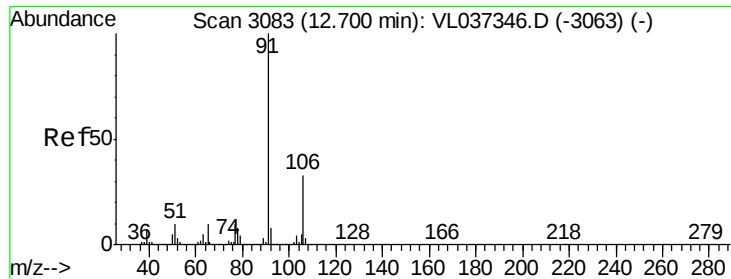
Ion Ratio Lower Upper

117 100

82 64.6 46.0 69.0

119 35.5 24.4 36.6





#58

Ethyl Benzene

Concen: 0.164 ppbv m

RT: 12.70 min Scan# 3083

Delta R.T. 0.00 min

Lab File: VL037362.D

Acq: 7 Aug 2021 3:19

Instrument :

MSVOA_L

ClientSampleId :

OFFSITE-DDC-INTERMEDIATE-2

Tot Ion: 91 Resp: 48903

Ion Ratio Lower Upper

91 100

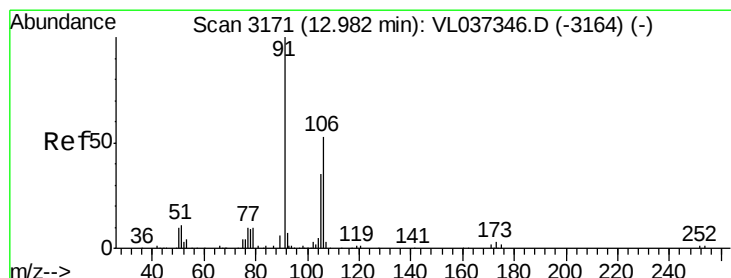
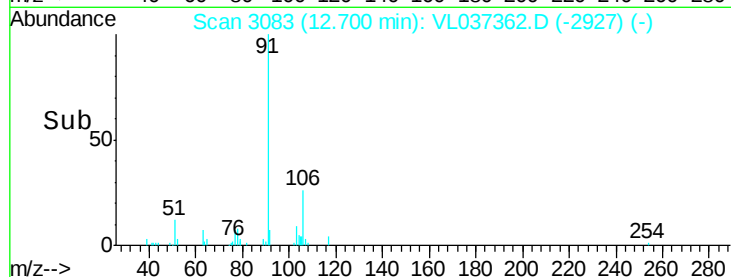
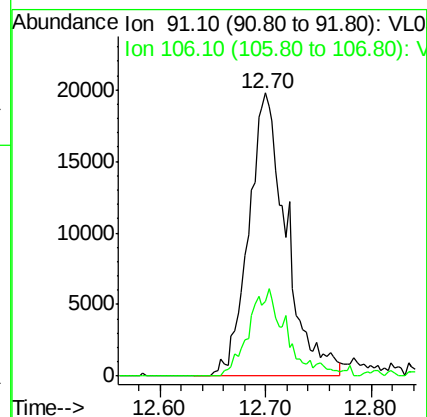
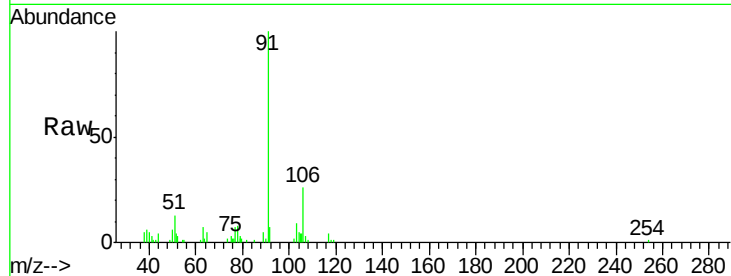
106 26.5 26.2 39.2

Manual Integrations

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#59

m/p-Xylene

Concen: 0.466 ppbv m

RT: 12.96 min Scan# 3163

Delta R.T. -0.03 min

Lab File: VL037362.D

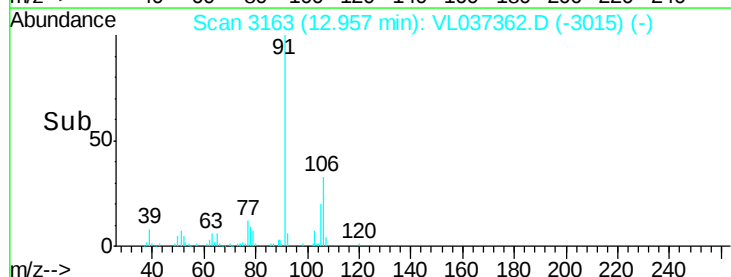
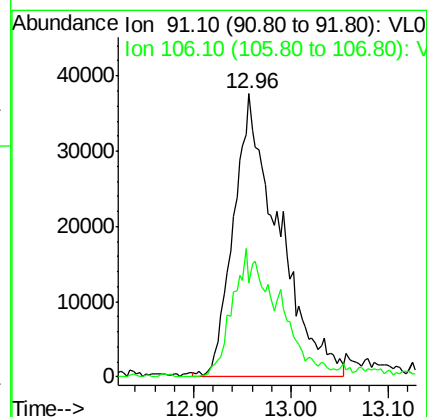
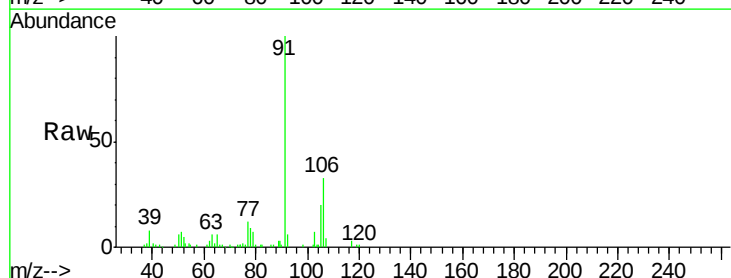
Acq: 7 Aug 2021 3:19

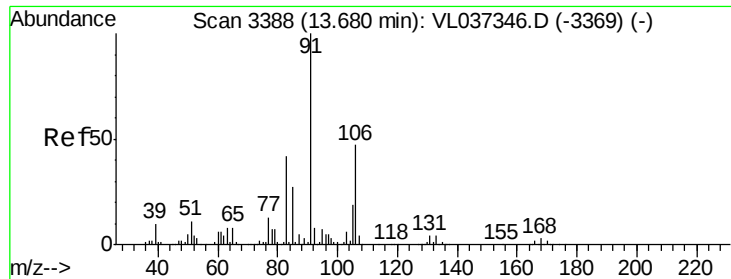
Tgt Ion: 91 Resp: 120969

Ion Ratio Lower Upper

91 100

106 0.0 37.0 55.6#





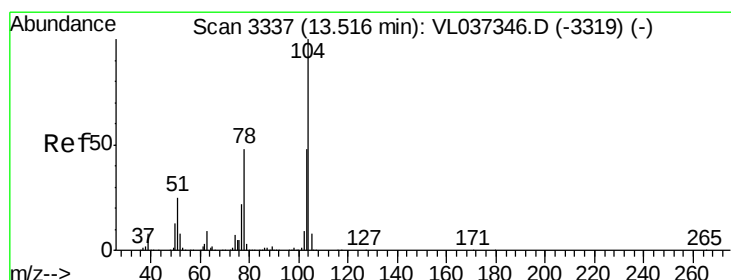
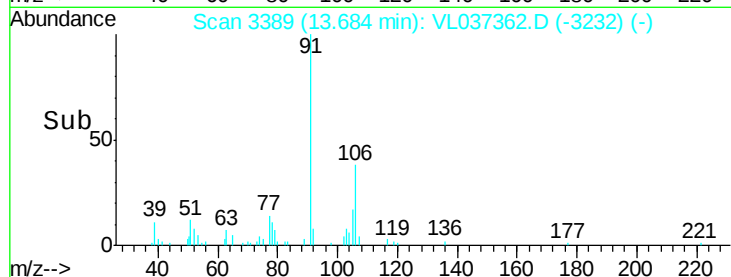
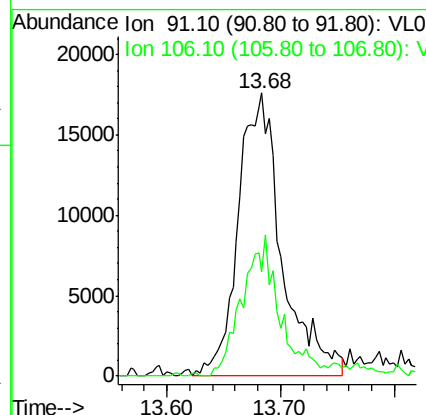
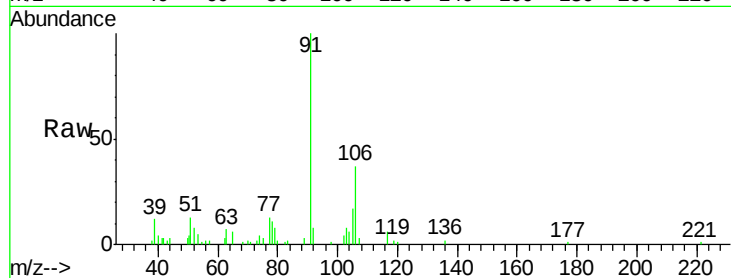
#60
o-Xylene
Concen: 0.195 ppbv m
RT: 13.68 min Scan# 3389
Delta R.T. 0.00 min
Lab File: VL037362.D
Acq: 7 Aug 2021 3:19

Instrument :
MSVOA_L
ClientSampleId :
OFFSITE-DDC-INTERMEDIATE-2

Tot Ion: 91 Resp: 46877
Ion Ratio Lower Upper
91 100
106 0.0 23.1 69.3#

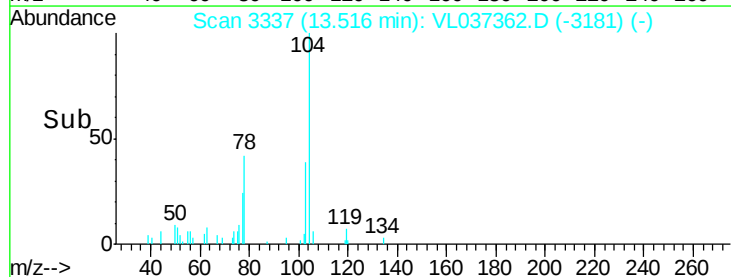
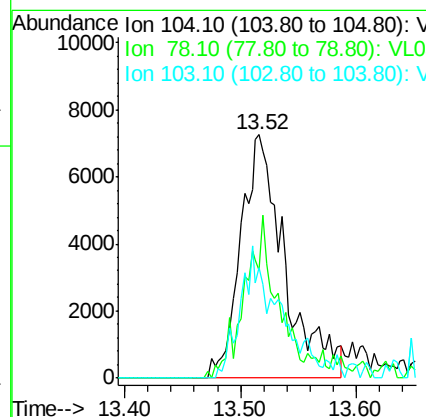
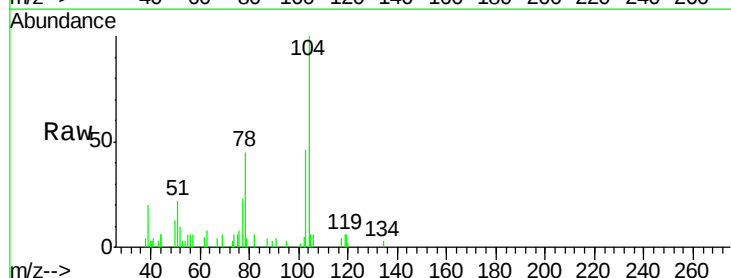
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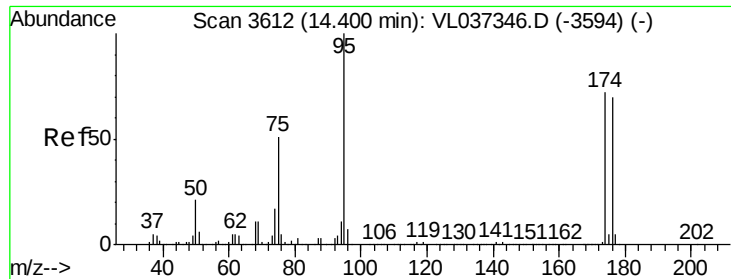
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#61
Styrene
Concen: 0.155 ppbv m
RT: 13.52 min Scan# 3337
Delta R.T. 0.00 min
Lab File: VL037362.D
Acq: 7 Aug 2021 3:19

Tgt Ion: 104 Resp: 19232
Ion Ratio Lower Upper
104 100
78 49.9 38.2 57.4
103 49.4 38.3 57.5





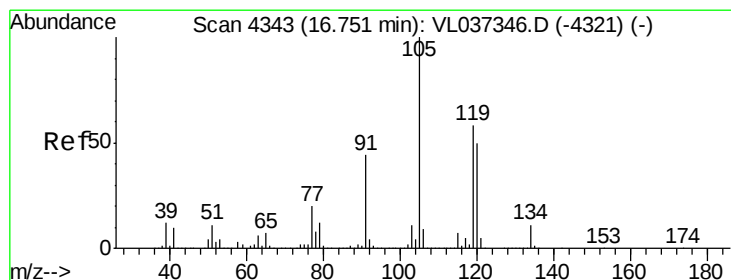
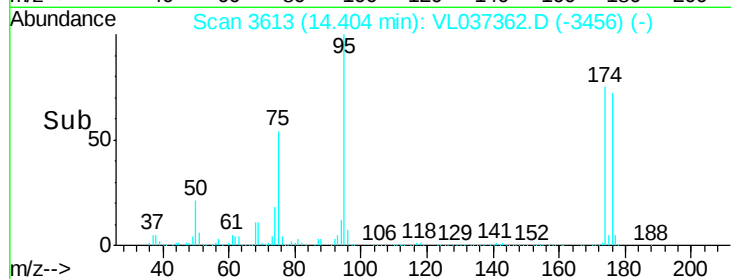
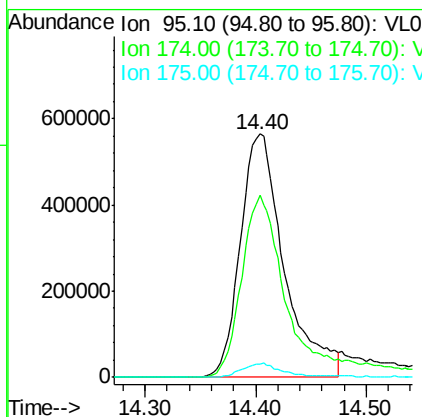
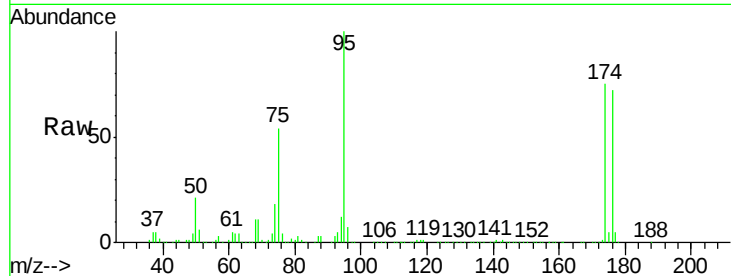
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.692 ppbv
 RT: 14.40 min Scan# 3613
 Delta R.T. 0.00 min
 Lab File: VL037362.D
 Acq: 7 Aug 2021 3:19

Instrument :
 MSVOA_L
 ClientSampleId :
 OFFSITE-DDC-INTERMEDIATE-2

Tot Ion: 95 Resp: 1560124
 Ion Ratio Lower Upper
 95 100
 174 83.3 60.8 91.2
 175 6.1 4.3 6.5

Manual Integrations
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#74
 1,2,4-Trimethylbenzene
 Concen: 0.166 ppbv m
 RT: 16.75 min Scan# 4342
 Delta R.T. -0.00 min
 Lab File: VL037362.D
 Acq: 7 Aug 2021 3:19

Tgt Ion: 105 Resp: 46752
 Ion Ratio Lower Upper
 105 100
 120 41.9 39.7 59.5
 91 13.9 35.0 52.6#
 77 14.7 16.1 24.1#

