

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080621\
 Data File : VL037356.D
 Acq On : 6 Aug 2021 23:19
 Operator : SY/AP
 Sample : M3157-03
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OFFSITE-DDC-EFFLUENT

Manual Integrations
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Quant Time: Aug 07 03:48:25 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	875440	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	2898486	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	2362292	10.00	ppbv	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.40	95	1609264	9.67	ppbv	0.00	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.70%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	27212	0.137	ppbv	92
3) Chlorodifluoromethane	2.98	51	87530	0.501	ppbv #	83
4) Chloromethane	3.13	50	30435m	0.510	ppbv	
5) Vinyl Chloride	3.25	62	9829	0.136	ppbv #	85
9) Propene	3.02	41	33175m	0.566	ppbv	
10) Heptane	8.12	43	13939m	0.102	ppbv	
11) Trichlorofluoromethane	3.94	101	31753	0.187	ppbv	89
13) Ethanol	3.61	45	91299m	8.449	ppbv	
15) Acetone	3.85	43	544221	5.966	ppbv	99
19) Isopropyl Alcohol	3.97	45	82600m	1.496	ppbv	
20) Methylene Chloride	4.34	84	279467	3.658	ppbv	93
22) trans-1,2-Dichloroethene	4.88	96	21230	0.396	ppbv #	93
24) 1,1-Dichloroethane	5.01	63	30325	0.278	ppbv	99
26) Hexane	5.67	57	162114	1.271	ppbv #	51
29) Chloroform	5.74	83	140942	0.824	ppbv	97
31) cis-1,2-Dichloroethene	5.54	61	2185741	21.718	ppbv	96
34) 2-Butanone	5.25	43	102084m	1.049	ppbv	
35) Carbon Tetrachloride	7.01	117	8358m	0.046	ppbv	
36) Benzene	6.88	78	87992	0.396	ppbv #	87
41) Tetrahydrofuran	6.06	42	29634m	0.619	ppbv	
44) 2,2,4-Trimethylpentane	7.86	57	73379	0.198	ppbv #	87
52) Tetrachloroethene	11.21	164	3887m	0.037	ppbv	
53) Toluene	9.79	91	397979	1.537	ppbv	98
58) Ethyl Benzene	12.70	91	36085	0.117	ppbv #	88
59) m/p-Xylene	12.96	91	98978m	0.369	ppbv	
60) o-Xylene	13.68	91	34349m	0.138	ppbv	
74) 1,2,4-Trimethylbenzene	16.75	105	33937m	0.116	ppbv	

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

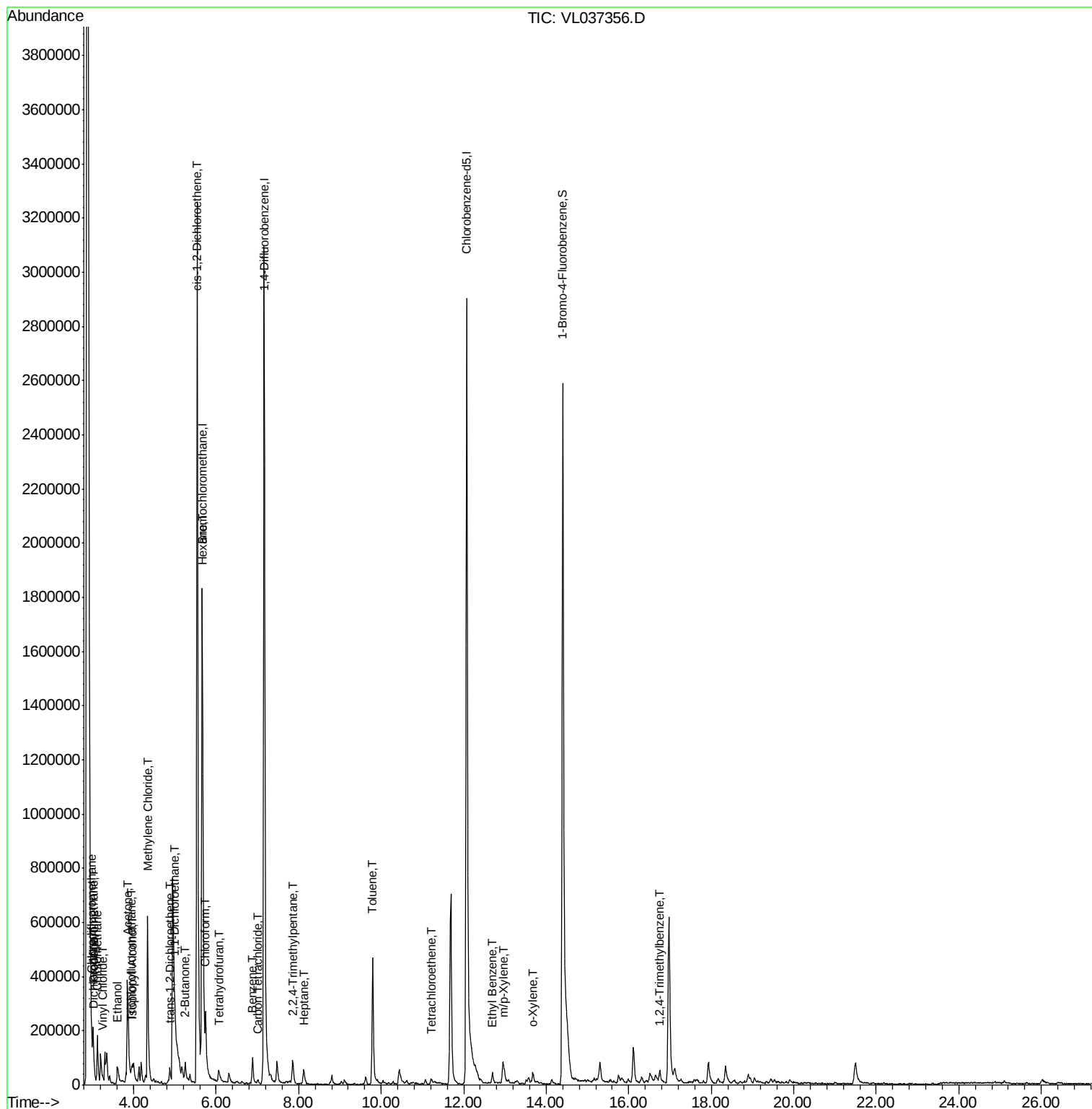
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL080621\
Data File : VL037356.D
Acq On : 6 Aug 2021 23:19
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Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

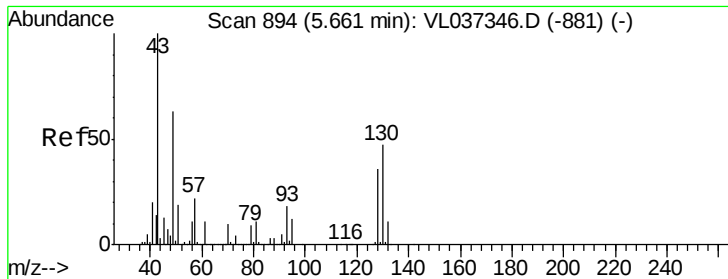
Instrument :
MSVOA_L
ClientSampleId :
OFFSITE-DDC-EFFLUENT

Manual Integrations

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Quant Time: Aug 07 03:48:25 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080621AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri 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: VL037356.D

Acq: 6 Aug 2021 23:19

Instrument :

MSVOA_L

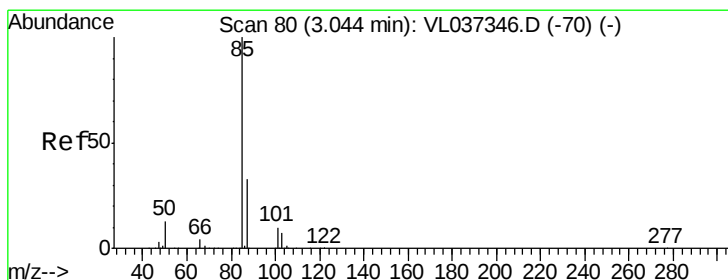
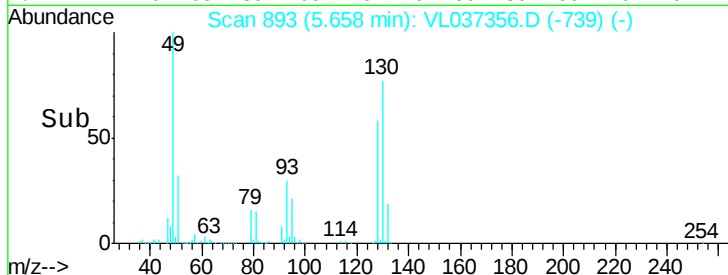
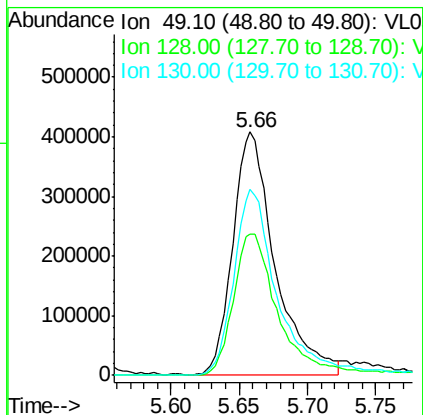
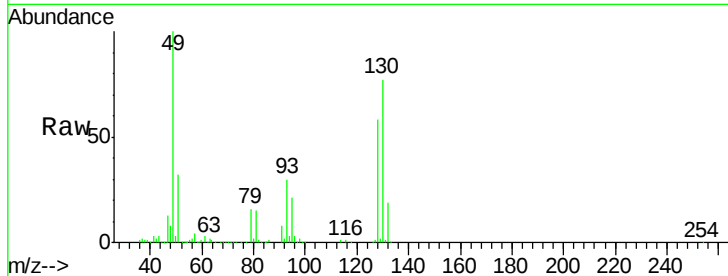
ClientSampleId :

OFFSITE-DDC-EFFLUENT

Tot Ion	49	Resp	875440
Ion	Ratio	Lower	Upper
49	100		
128	63.9	32.1	96.3
130	81.3	40.0	120.0

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#2

Dichlorodifluoromethane

Concen: 0.137 ppbv

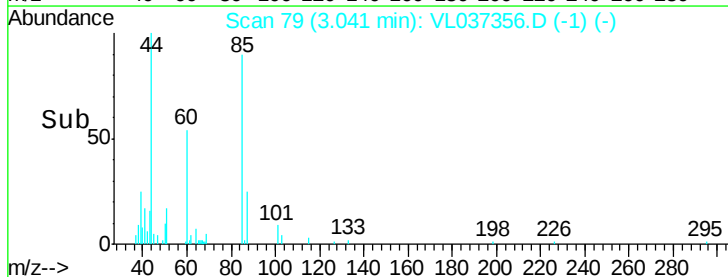
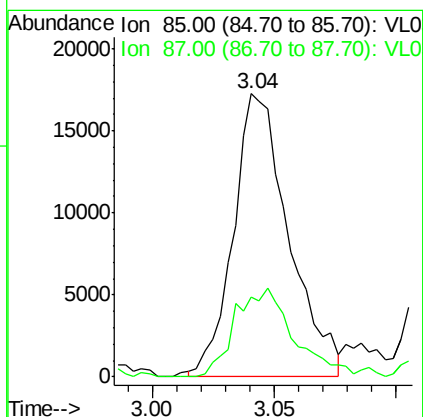
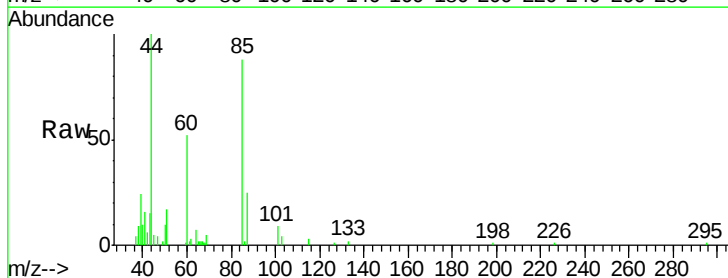
RT: 3.04 min Scan# 79

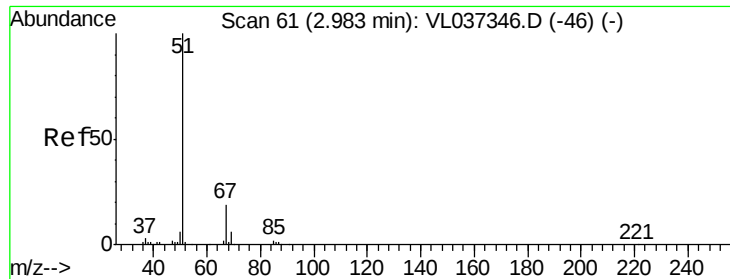
Delta R.T. -0.00 min

Lab File: VL037356.D

Acq: 6 Aug 2021 23:19

Tgt Ion	85	Resp	27212
Ion	Ratio	Lower	Upper
85	100		
87	28.7	26.4	39.6





#3

Chlorodifluoromethane

Concen: 0.501 ppbv

RT: 2.98 min Scan# 61

Delta R.T. -0.00 min

Lab File: VL037356.D

Acq: 6 Aug 2021 23:19

Instrument :

MSVOA_L

ClientSampleId :

OFFSITE-DDC-EFFLUENT

Tot Ion: 51 Resp: 87530

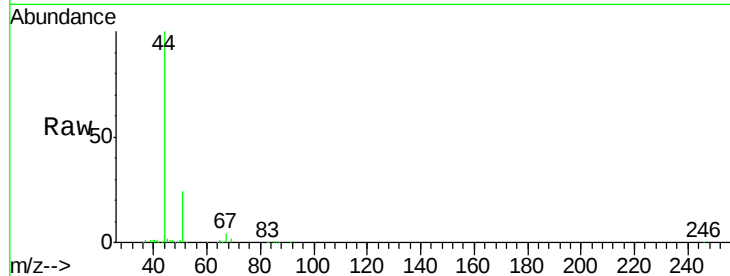
Ion Ratio Lower Upper

51 100

67 11.9 15.6 23.4#

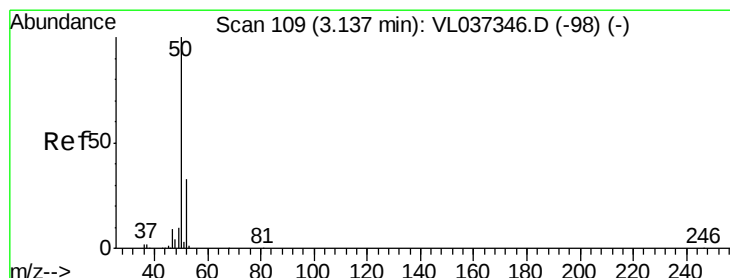
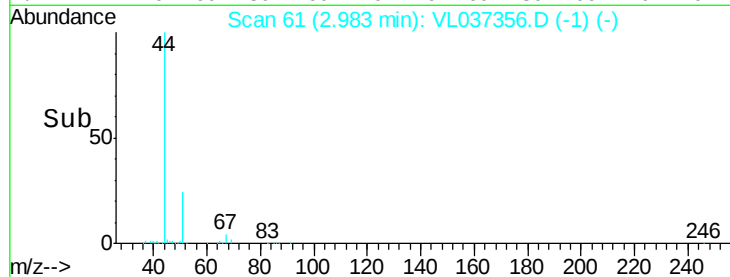
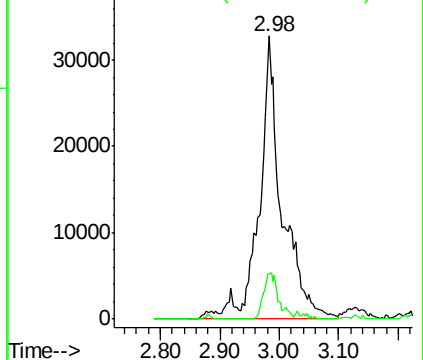
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.510 ppbv m

RT: 3.13 min Scan# 107

Delta R.T. -0.01 min

Lab File: VL037356.D

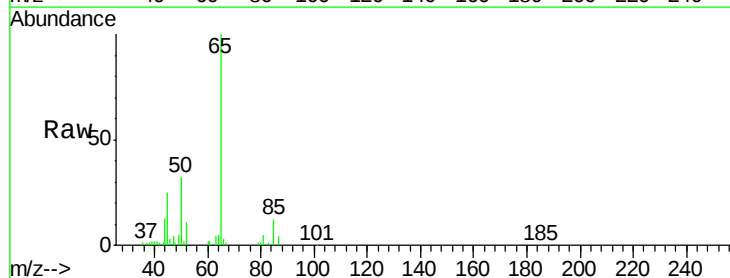
Acq: 6 Aug 2021 23:19

Tgt Ion: 50 Resp: 30435

Ion Ratio Lower Upper

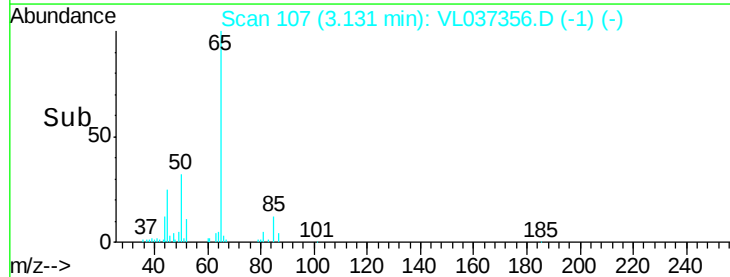
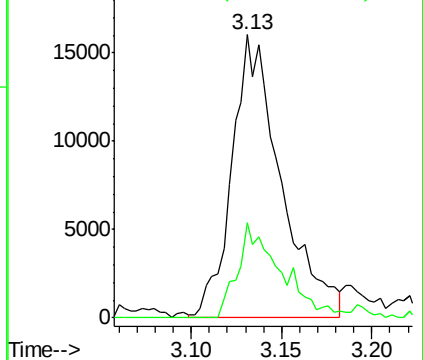
50 100

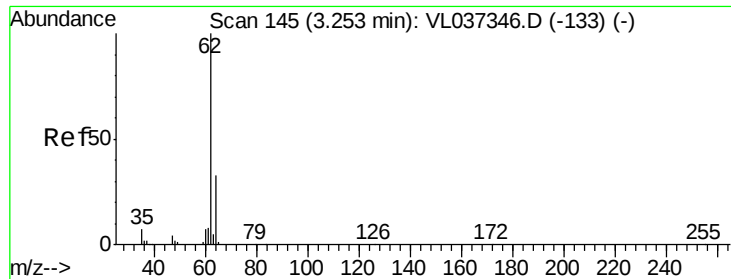
52 33.6 26.3 39.5



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.136 ppbv

RT: 3.25 min Scan# 144

Delta R.T. -0.00 min

Lab File: VL037356.D

Acq: 6 Aug 2021 23:19

Instrument :

MSVOA_L

ClientSampleId :

OFFSITE-DDC-EFFLUENT

Tot Ion: 62 Resp: 9829

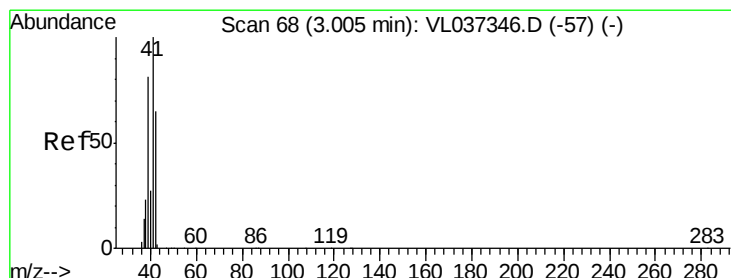
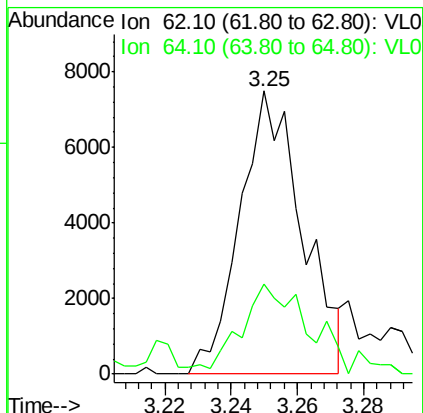
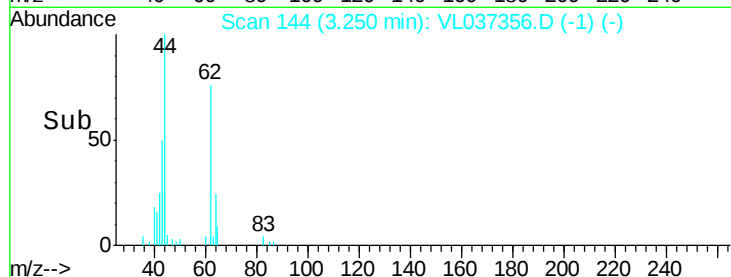
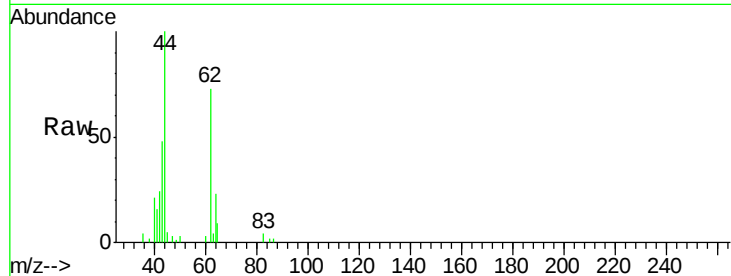
Ion Ratio Lower Upper

62 100

64 41.5 26.4 39.6#

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#9

Propene

Concen: 0.566 ppbv m

RT: 3.02 min Scan# 71

Delta R.T. 0.01 min

Lab File: VL037356.D

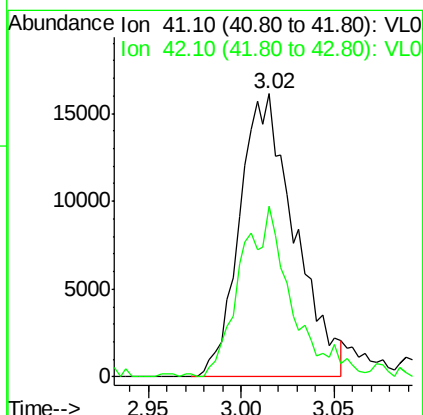
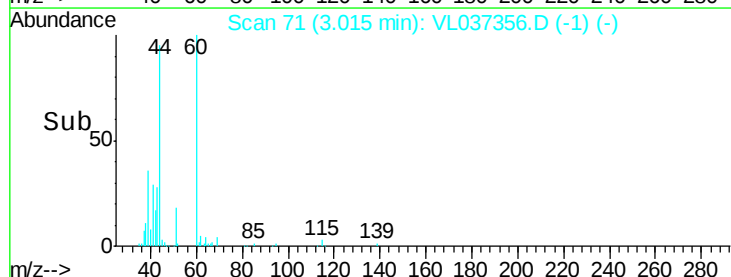
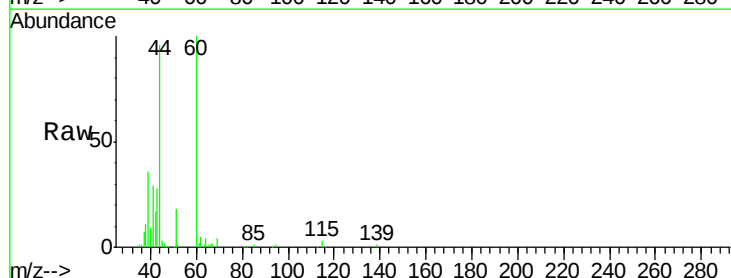
Acq: 6 Aug 2021 23:19

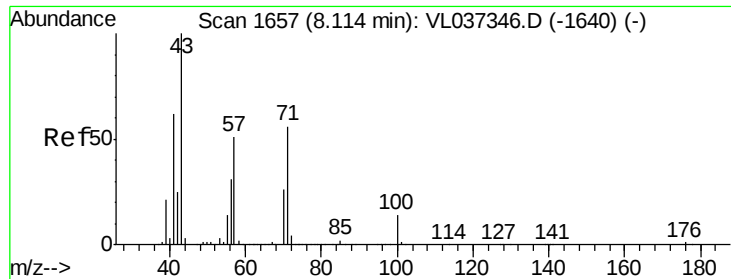
Tgt Ion: 41 Resp: 33175

Ion Ratio Lower Upper

41 100

42 0.0 54.3 81.5#





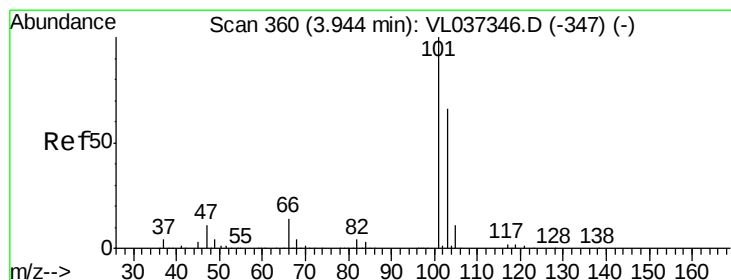
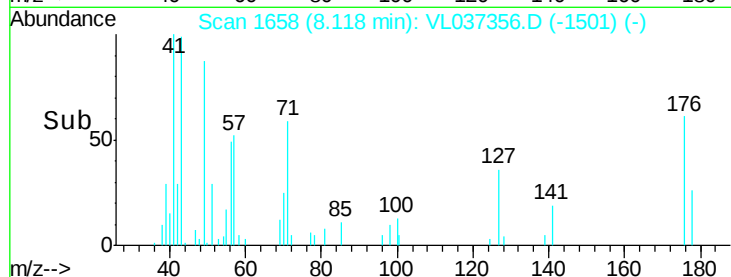
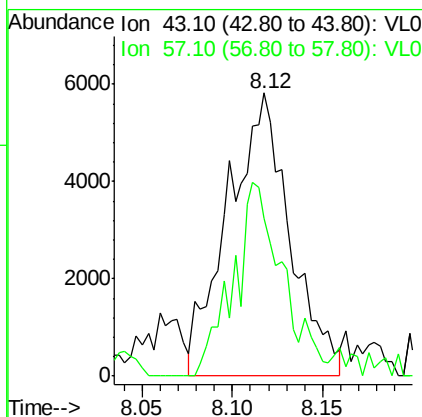
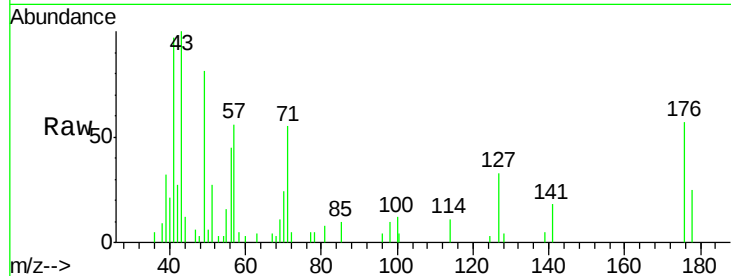
#10
 Heptane
 Concen: 0.102 ppbv m
 RT: 8.12 min Scan# 1658
 Delta R.T. 0.00 min
 Lab File: VL037356.D
 Acq: 6 Aug 2021 23:19

Instrument :
 MSVOA_L
 ClientSampleId :
 OFFSITE-DDC-EFFLUENT

Tot Ion: 43 Resp: 13939
 Ion Ratio Lower Upper
 43 100
 57 59.3 41.6 62.4

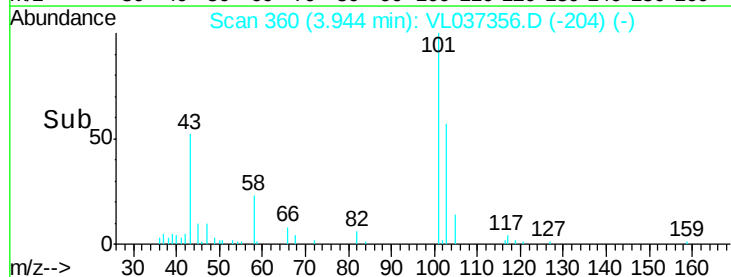
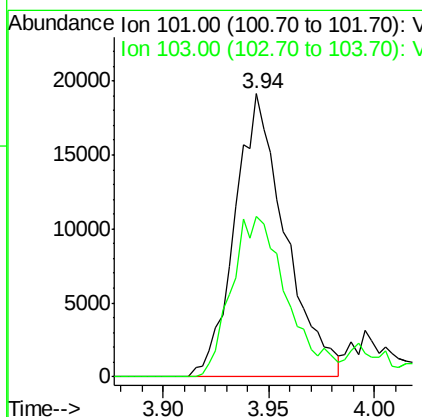
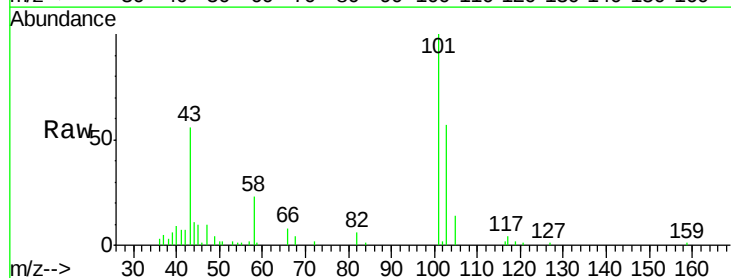
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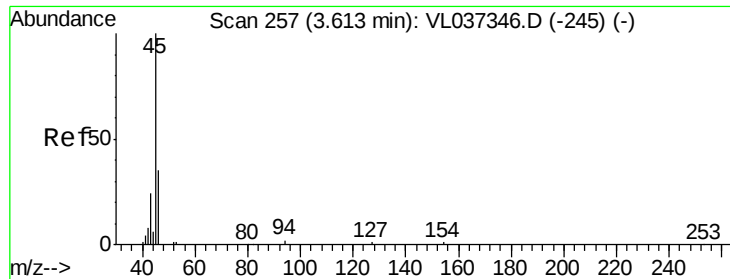
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#11
 Trichlorofluoromethane
 Concen: 0.187 ppbv
 RT: 3.94 min Scan# 360
 Delta R.T. -0.00 min
 Lab File: VL037356.D
 Acq: 6 Aug 2021 23:19

Tgt Ion:101 Resp: 31753
 Ion Ratio Lower Upper
 101 100
 103 56.7 52.5 78.7





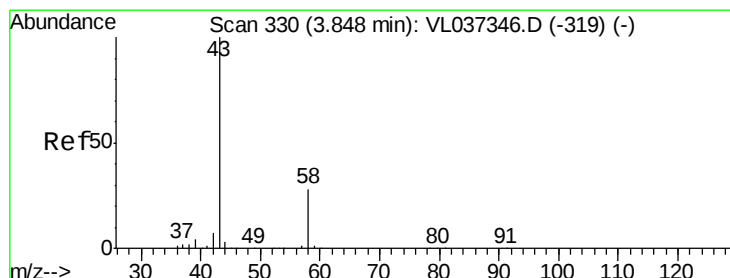
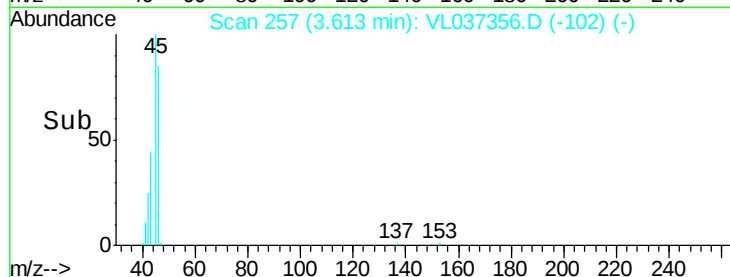
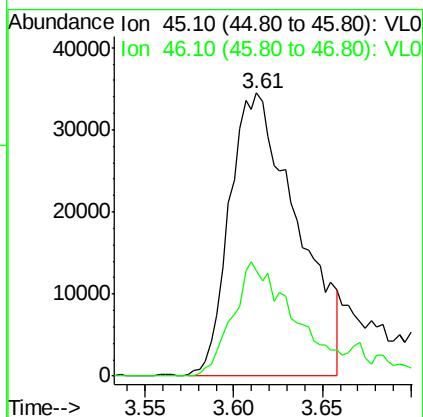
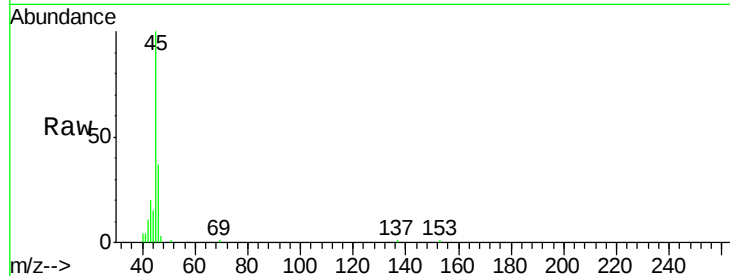
#13
Ethanol
Concen: 8.449 ppbv m
RT: 3.61 min Scan# 257
Delta R.T. -0.00 min
Lab File: VL037356.D
Acq: 6 Aug 2021 23:19

Instrument :
MSVOA_L
ClientSampleId :
OFFSITE-DDC-EFFLUENT

Tot Ion: 45 Resp: 91299
Ion Ratio Lower Upper
45 100
46 42.1 15.7 62.9

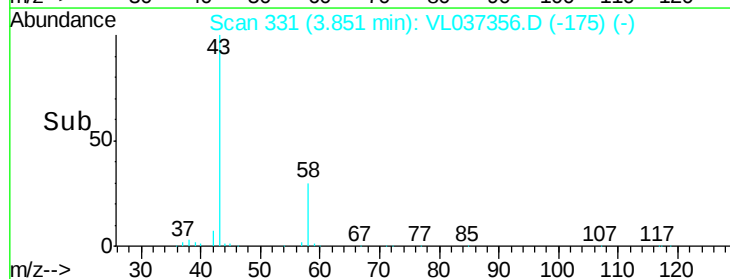
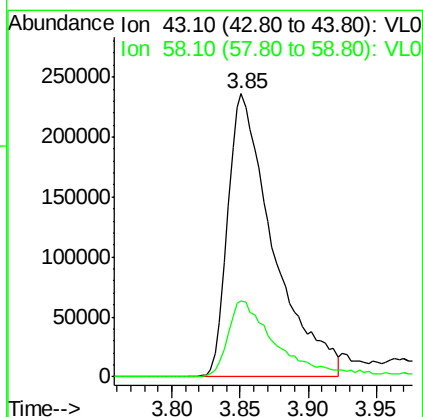
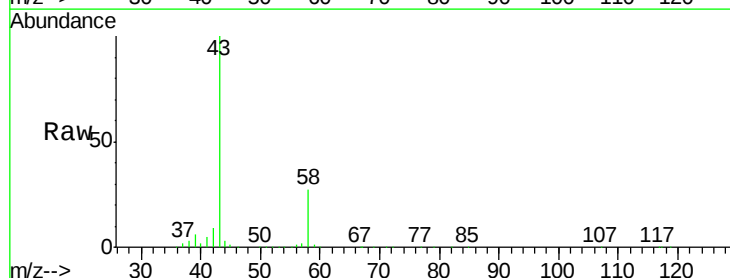
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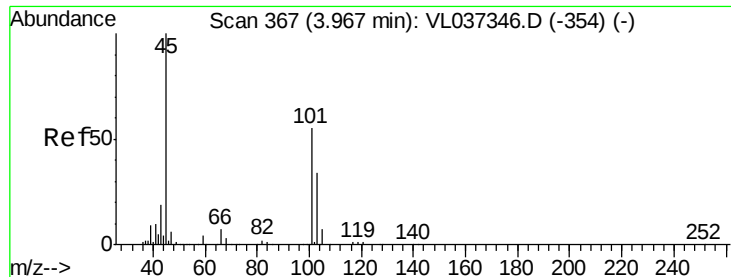
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#15
Acetone
Concen: 5.966 ppbv
RT: 3.85 min Scan# 331
Delta R.T. 0.00 min
Lab File: VL037356.D
Acq: 6 Aug 2021 23:19

Tgt Ion: 43 Resp: 544221
Ion Ratio Lower Upper
43 100
58 31.0 24.6 36.8





#19

Isopropyl Alcohol

Concen: 1.496 ppbv m

RT: 3.97 min Scan# 369

Delta R.T. 0.01 min

Lab File: VL037356.D

Acq: 6 Aug 2021 23:19

Instrument :

MSVOA_L

ClientSampleId :

OFFSITE-DDC-EFFLUENT

Tot Ion: 45 Resp: 82600

Ion Ratio Lower Upper

45 100

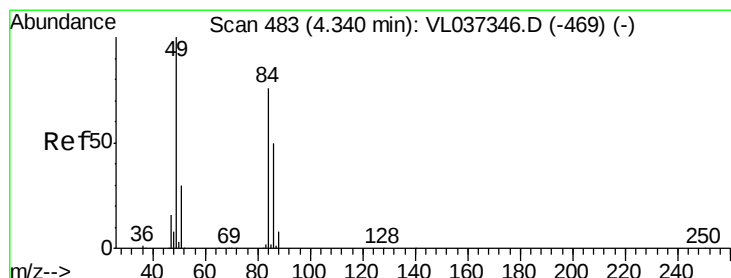
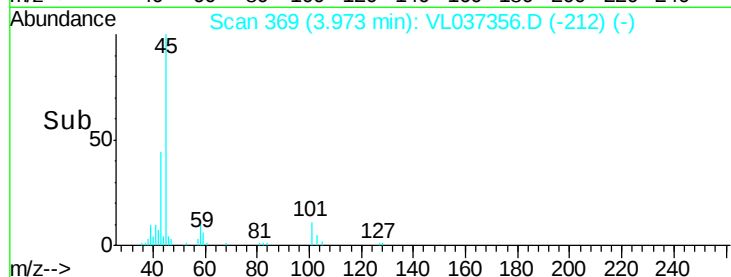
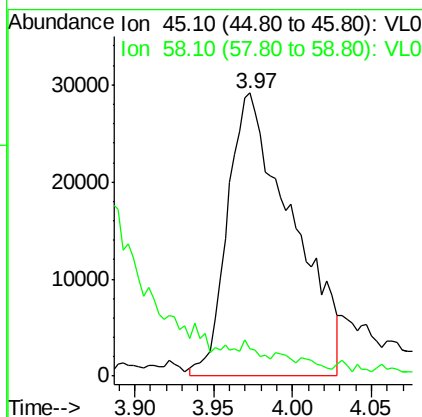
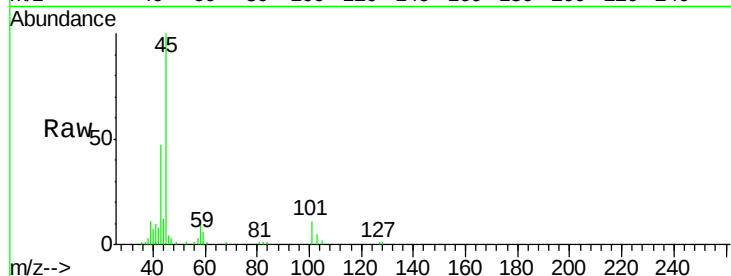
58 0.0 1.8 2.8#

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#20

Methylene Chloride

Concen: 3.658 ppbv

RT: 4.34 min Scan# 482

Delta R.T. -0.00 min

Lab File: VL037356.D

Acq: 6 Aug 2021 23:19

Tgt Ion: 84 Resp: 279467

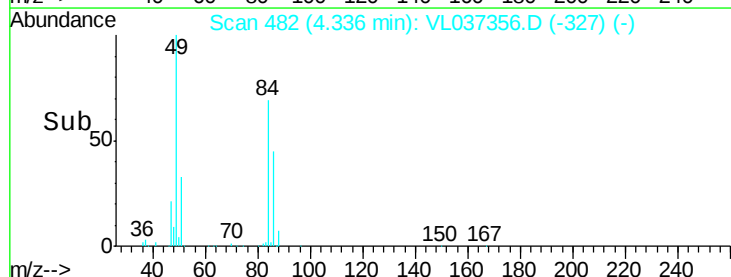
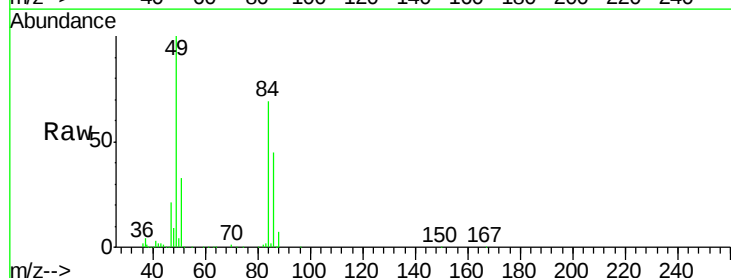
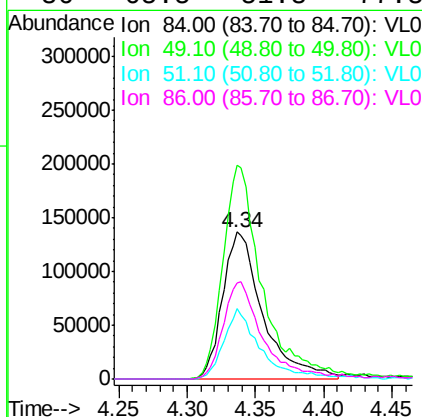
Ion Ratio Lower Upper

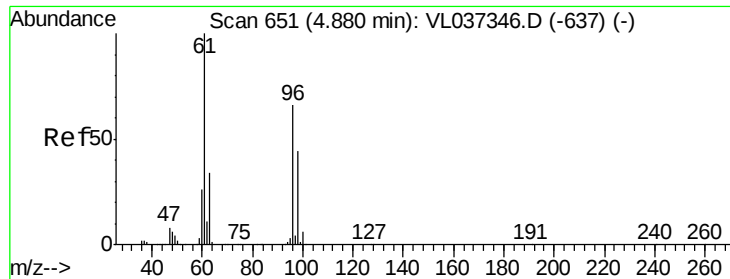
84 100

49 144.7 107.3 160.9

51 47.9 33.0 49.4

86 65.5 51.8 77.8





#22

trans-1,2-Dichloroethene

Concen: 0.396 ppbv

RT: 4.88 min Scan# 650

Delta R.T. -0.00 min

Lab File: VL037356.D

Acq: 6 Aug 2021 23:19

Instrument :

MSVOA_L

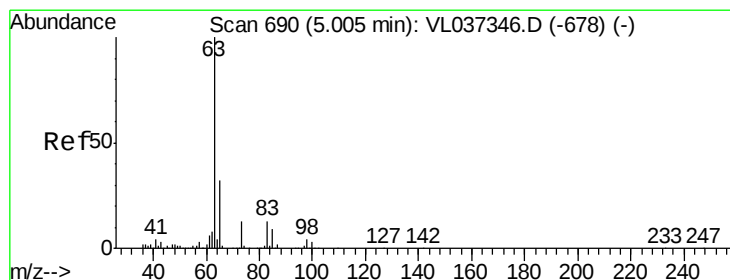
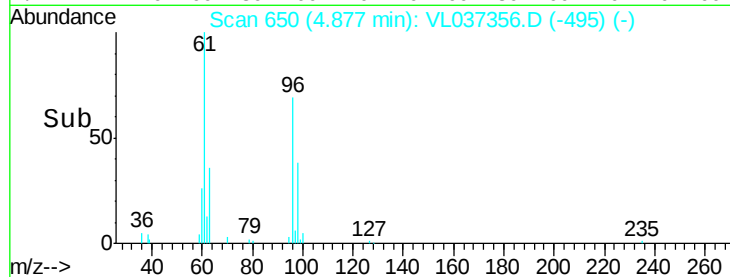
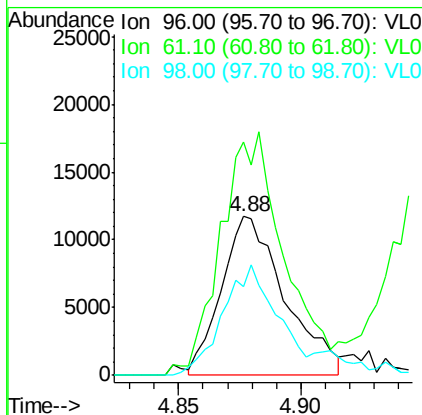
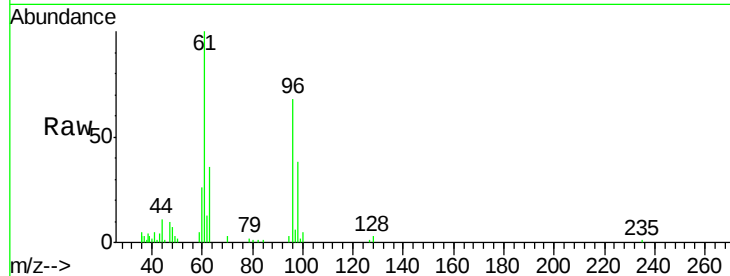
ClientSampleId :

OFFSITE-DDC-EFFLUENT

Tot Ion:	96	Resp:	21230
Ion	Ratio	Lower	Upper
96	100		
61	147.6	120.6	181.0
98	52.9	53.0	79.6#

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#24

1,1-Dichloroethane

Concen: 0.278 ppbv

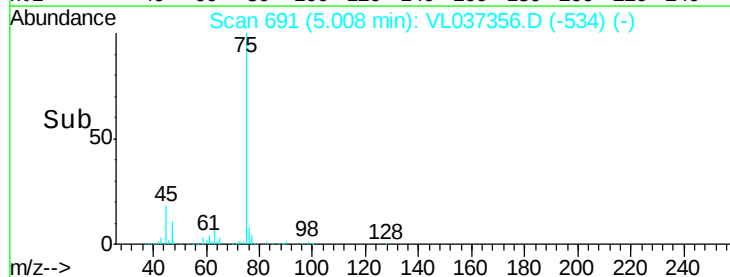
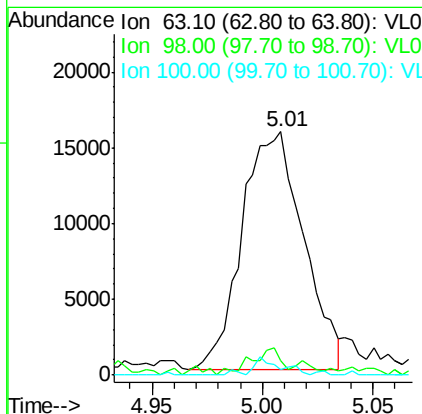
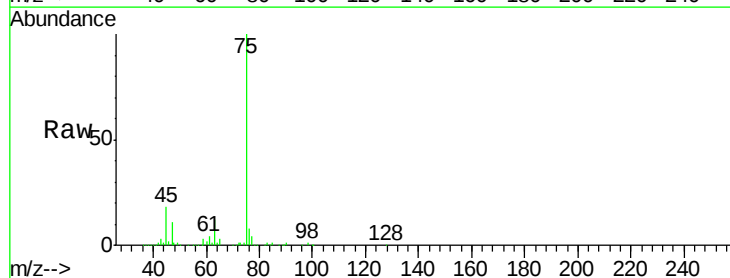
RT: 5.01 min Scan# 691

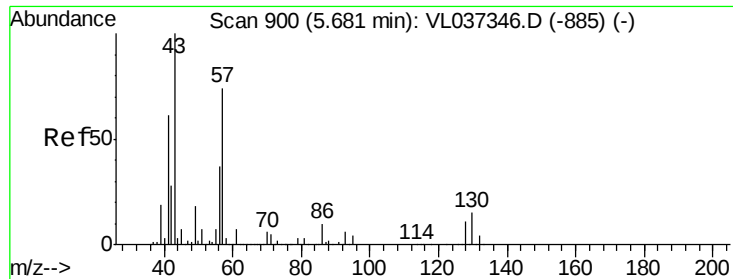
Delta R.T. 0.00 min

Lab File: VL037356.D

Acq: 6 Aug 2021 23:19

Tgt Ion:	63	Resp:	30325
Ion	Ratio	Lower	Upper
63	100		
98	4.7	2.3	6.8
100	2.5	1.4	4.0





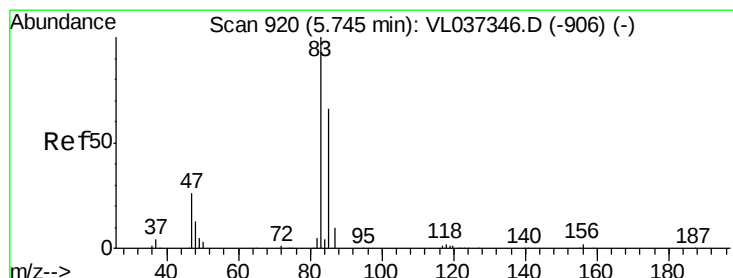
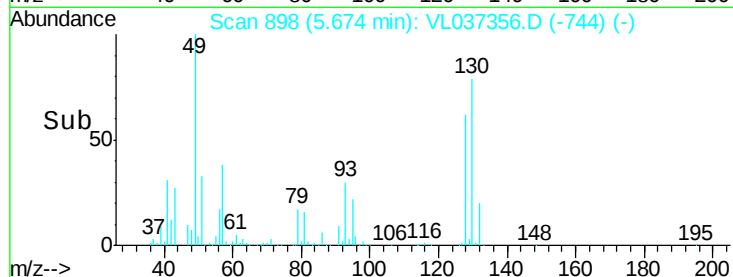
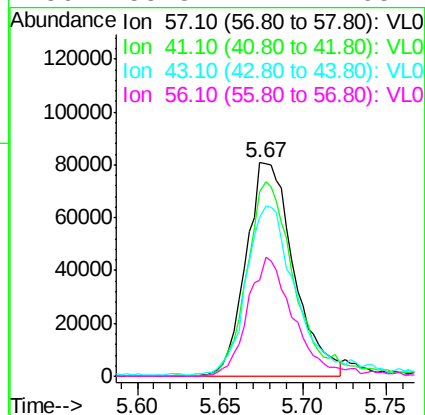
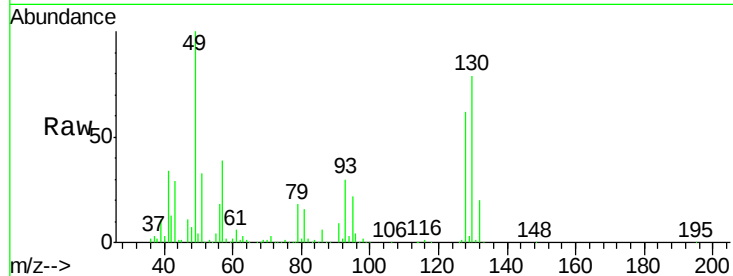
#26
Hexane
Concen: 1.271 ppbv
RT: 5.67 min Scan# 898
Delta R.T. -0.01 min
Lab File: VL037356.D
Acq: 6 Aug 2021 23:19

Instrument :
MSVOA_L
ClientSampleId :
OFFSITE-DDC-EFFLUENT

Tot Ion	Ion	Ratio	Resp	Lower	Upper
57	100		162114		
41	95.4	69.2	103.8		
43	84.3	162.1	243.1#		
56	55.8	42.2	63.4		

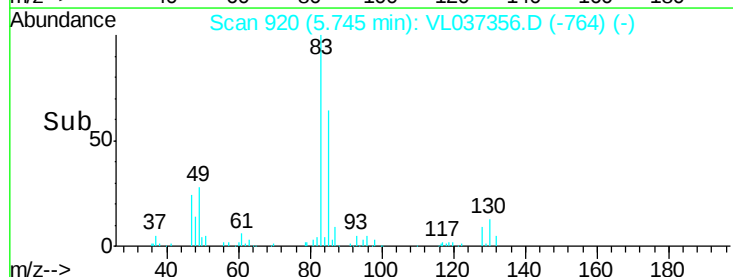
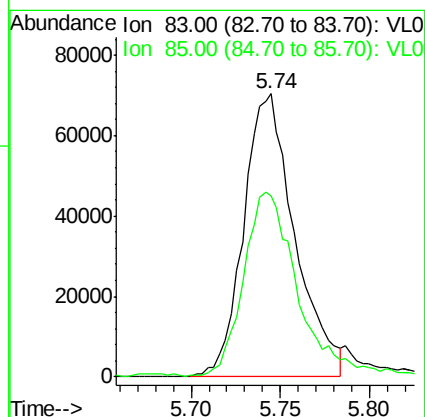
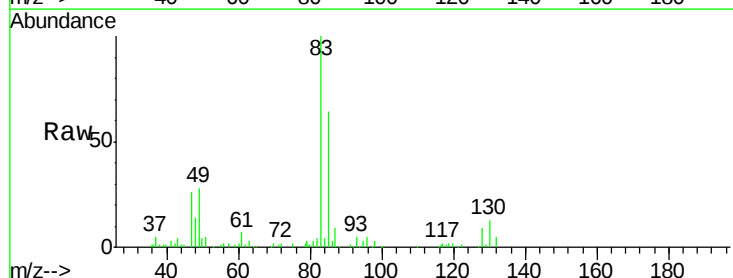
Manual Integrations
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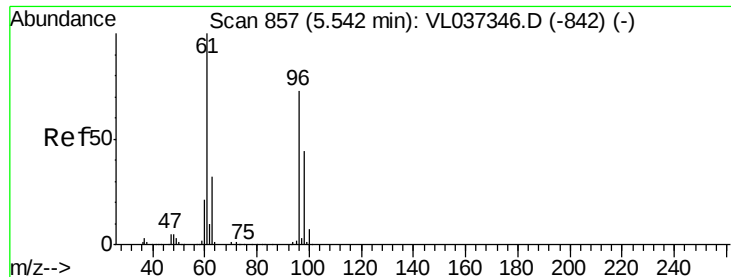
MMDadoda
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#29
Chloroform
Concen: 0.824 ppbv
RT: 5.74 min Scan# 920
Delta R.T. -0.00 min
Lab File: VL037356.D
Acq: 6 Aug 2021 23:19

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
83	100		140942		
85	63.7	53.1	79.7		





#31

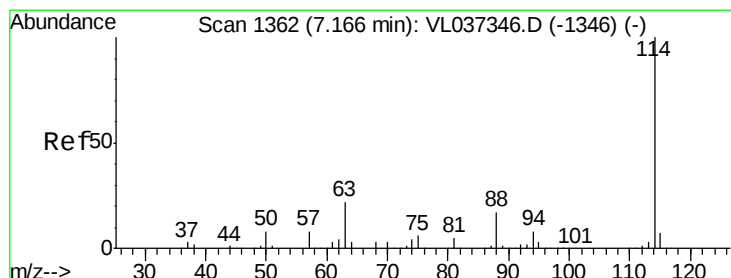
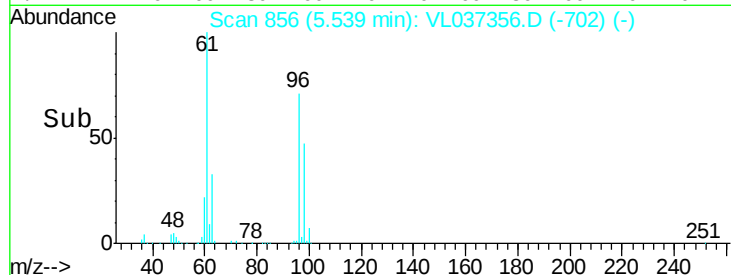
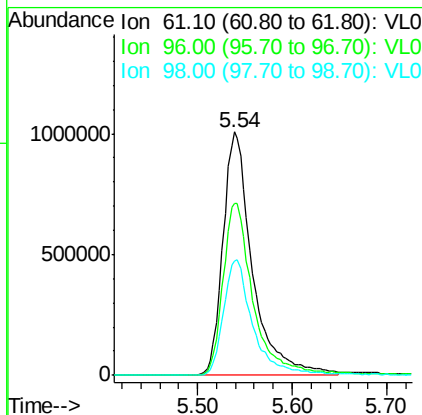
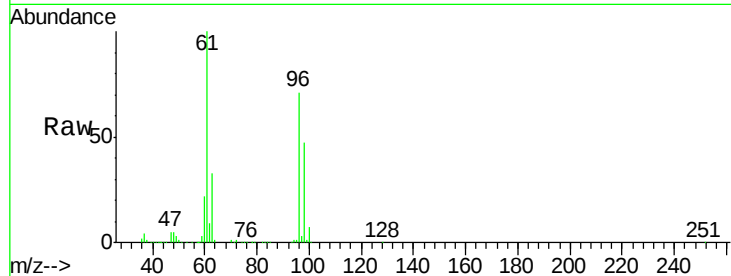
cis-1,2-Dichloroethene
 Concen: 21.718 ppbv
 RT: 5.54 min Scan# 856
 Delta R.T. -0.00 min
 Lab File: VL037356.D
 Acq: 6 Aug 2021 23:19

Instrument :
 MSVOA_L
 ClientSampleId :
 OFFSITE-DDC-EFFLUENT

Tot Ion	Ratio	Lower	Upper
61	100		
96	70.6	58.5	87.7
98	47.1	35.1	52.7

Manual Integrations
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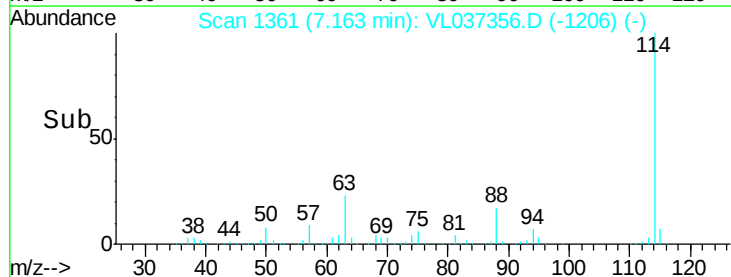
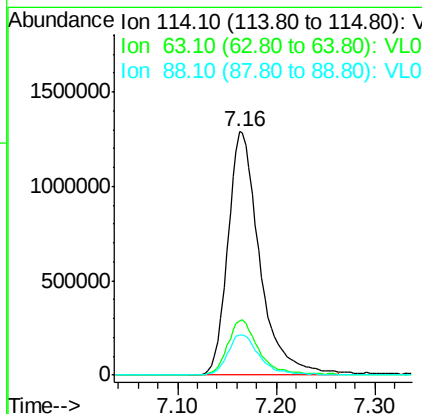
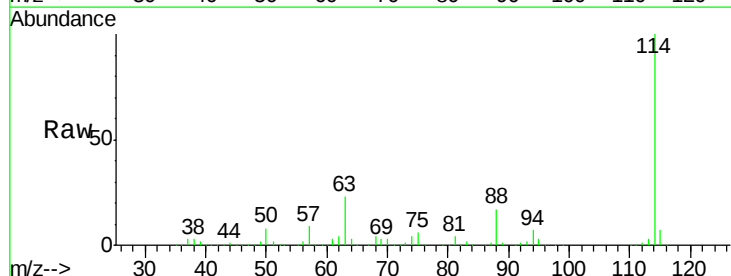
MMDadoda
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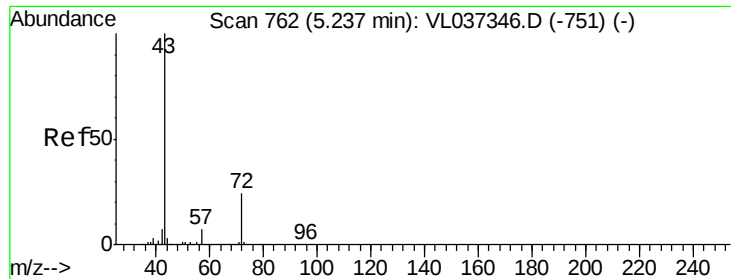


#33

1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16 min Scan# 1361
 Delta R.T. -0.00 min
 Lab File: VL037356.D
 Acq: 6 Aug 2021 23:19

Tgt Ion	Ratio	Lower	Upper
114	100		
63	22.8	17.8	26.6
88	17.2	13.5	20.3





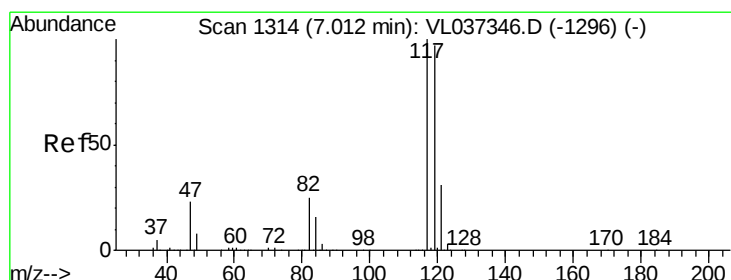
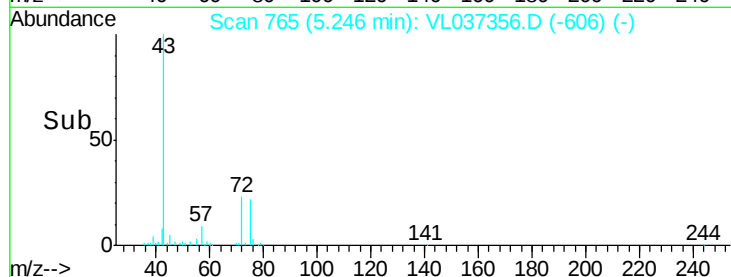
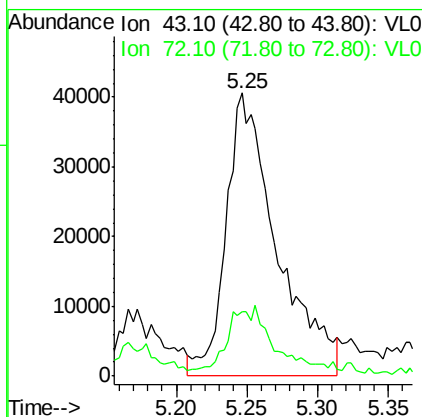
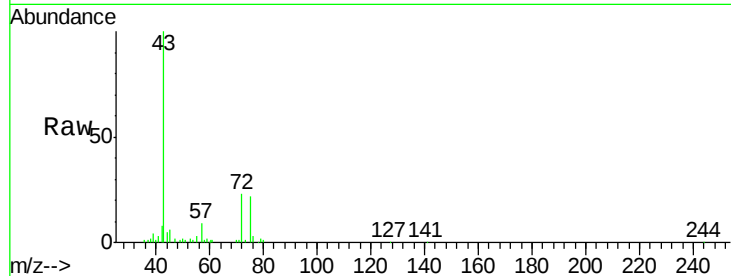
#34
2-Butanone
Concen: 1.049 ppbv m
RT: 5.25 min Scan# 765
Delta R.T. 0.01 min
Lab File: VL037356.D
Acq: 6 Aug 2021 23:19

Instrument :
MSVOA_L
ClientSampleId :
OFFSITE-DDC-EFFLUENT

Tot Ion: 43 Resp: 102084
Ion Ratio Lower Upper
43 100
72 0.0 19.8 29.6#

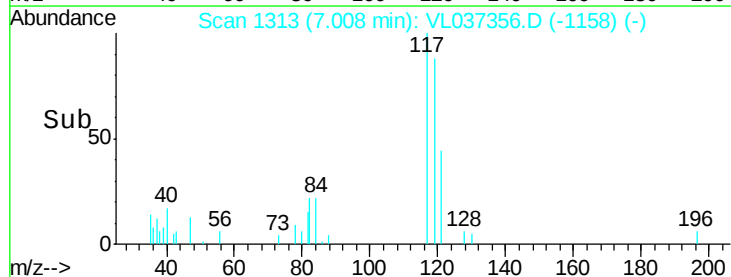
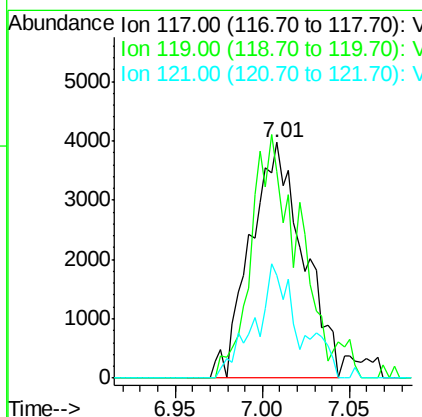
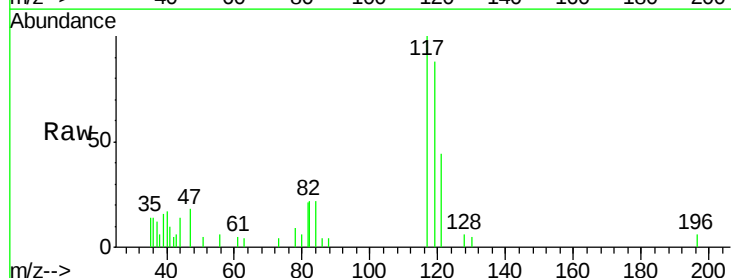
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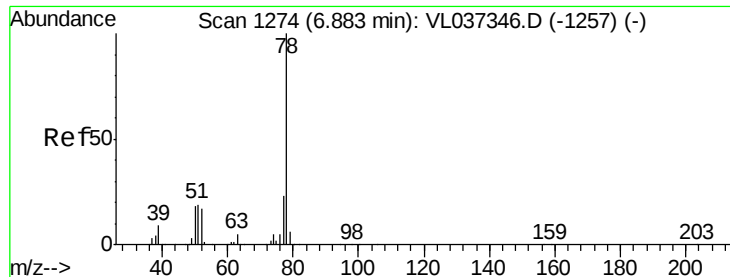
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#35
Carbon Tetrachloride
Concen: 0.046 ppbv m
RT: 7.01 min Scan# 1313
Delta R.T. -0.00 min
Lab File: VL037356.D
Acq: 6 Aug 2021 23:19

Tgt Ion: 117 Resp: 8358
Ion Ratio Lower Upper
117 100
119 87.8 77.8 116.8
121 43.7 24.6 36.8#





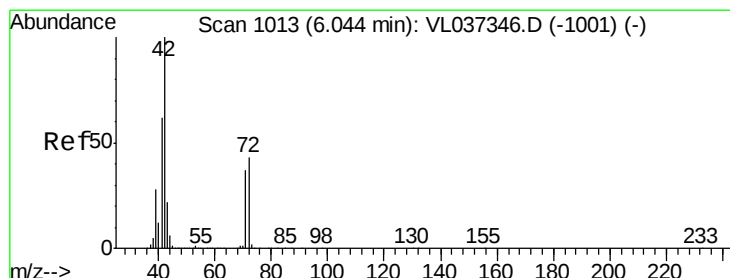
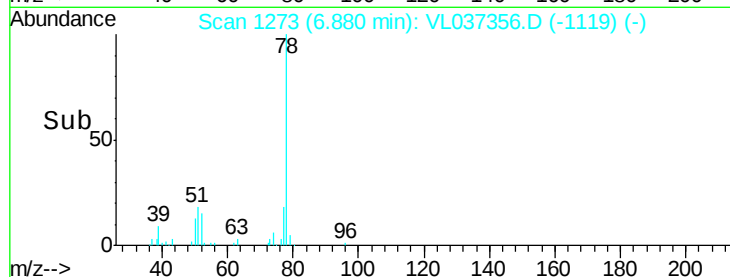
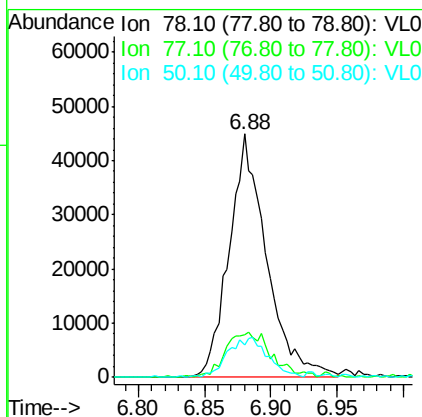
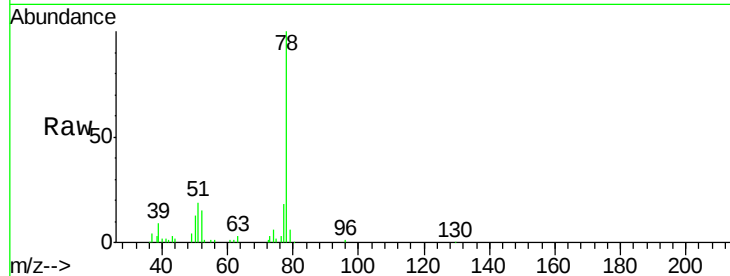
#36
Benzene
Concen: 0.396 ppbv
RT: 6.88 min Scan# 1273
Delta R.T. -0.00 min
Lab File: VL037356.D
Acq: 6 Aug 2021 23:19

Instrument :
MSVOA_L
ClientSampleId :
OFFSITE-DDC-EFFLUENT

Tot Ion	Ratio	Lower	Upper
78	100		
77	17.0	18.7	28.1#
50	13.1	14.6	22.0#

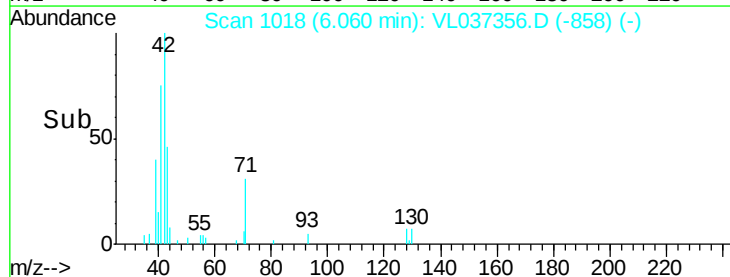
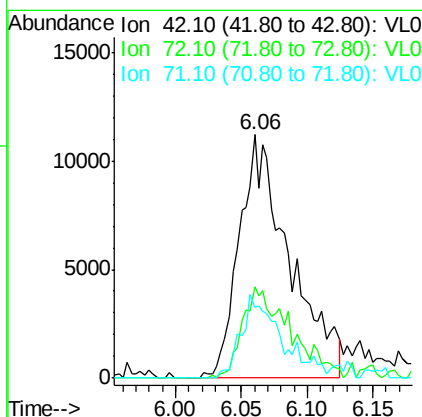
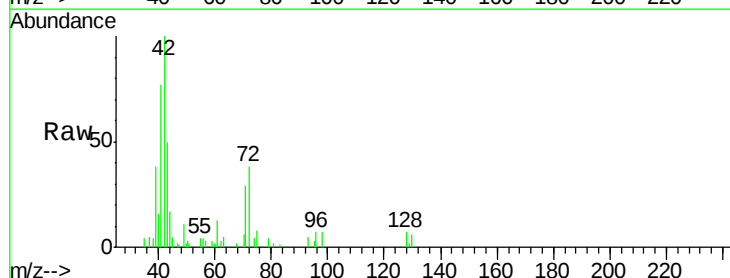
Manual Integrations
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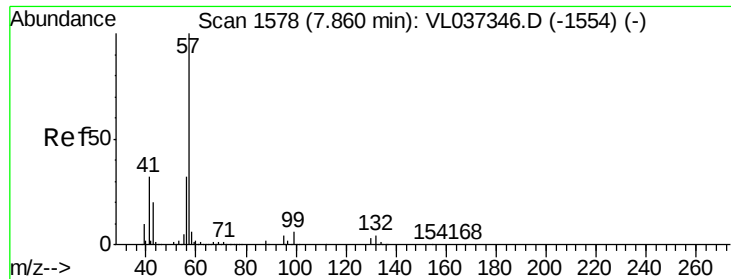
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#41
Tetrahydrofuran
Concen: 0.619 ppbv m
RT: 6.06 min Scan# 1018
Delta R.T. 0.02 min
Lab File: VL037356.D
Acq: 6 Aug 2021 23:19

Tgt Ion	Ratio	Lower	Upper
42	100		
72	36.2	35.6	53.4
71	30.1	33.8	50.6#





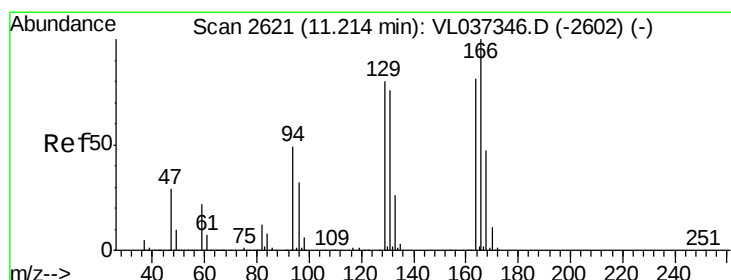
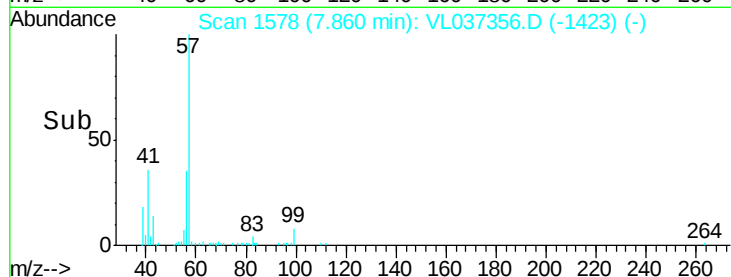
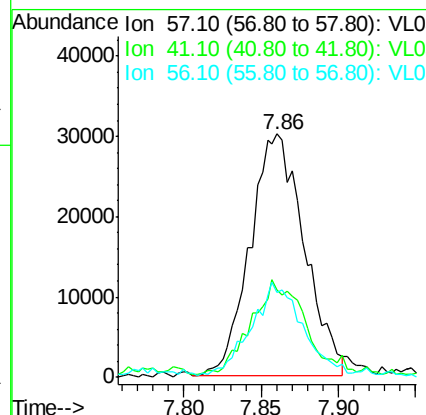
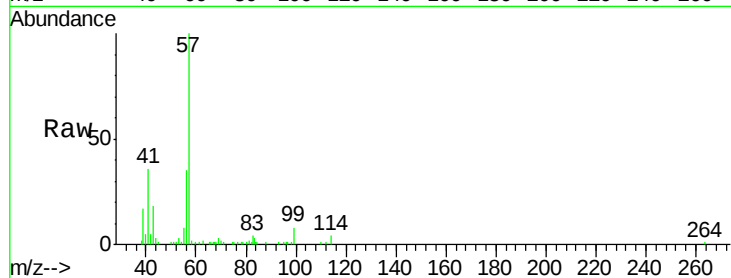
#44
 2,2,4-Trimethylpentane
 Concen: 0.198 ppbv
 RT: 7.86 min Scan# 1578
 Delta R.T. -0.00 min
 Lab File: VL037356.D
 Acq: 6 Aug 2021 23:19

Instrument :
 MSVOA_L
 ClientSampleId :
 OFFSITE-DDC-EFFLUENT

Tot Ion	Ratio	Lower	Upper
57	100		
41	39.9	26.1	39.1#
56	38.0	25.0	37.4#

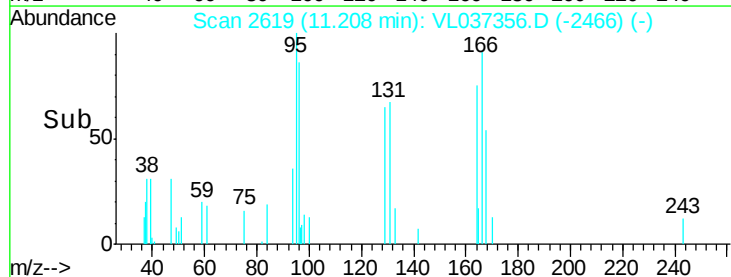
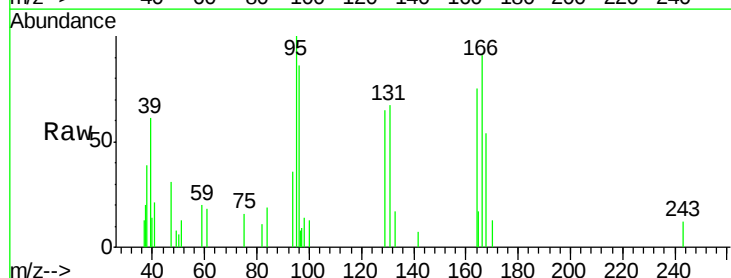
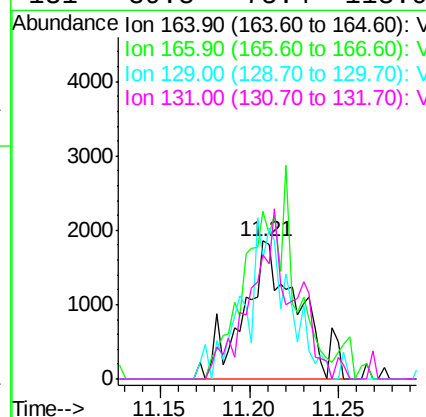
Manual Integrations
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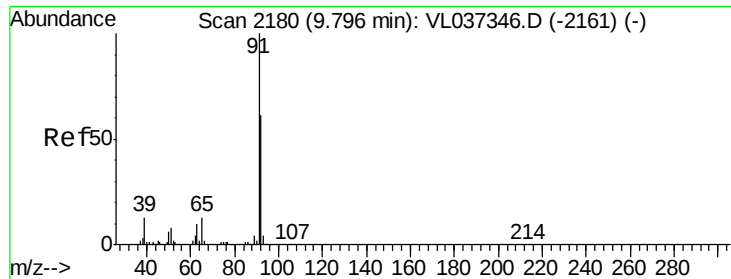
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#52
 Tetrachloroethene
 Concen: 0.037 ppbv m
 RT: 11.21 min Scan# 2619
 Delta R.T. -0.01 min
 Lab File: VL037356.D
 Acq: 6 Aug 2021 23:19

Tgt Ion	Ratio	Lower	Upper
164	100		
166	121.7	99.4	149.0
129	86.9	79.2	118.8
131	89.8	75.4	113.0





#53

Toluene

Concen: 1.537 ppbv

RT: 9.79 min Scan# 2179

Delta R.T. -0.00 min

Lab File: VL037356.D

Acq: 6 Aug 2021 23:19

Instrument :

MSVOA_L

ClientSampleId :

OFFSITE-DDC-EFFLUENT

Tot Ion: 91 Resp: 397979

Ion Ratio Lower Upper

91 100

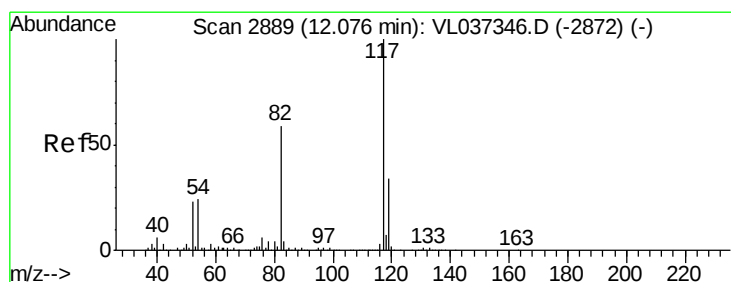
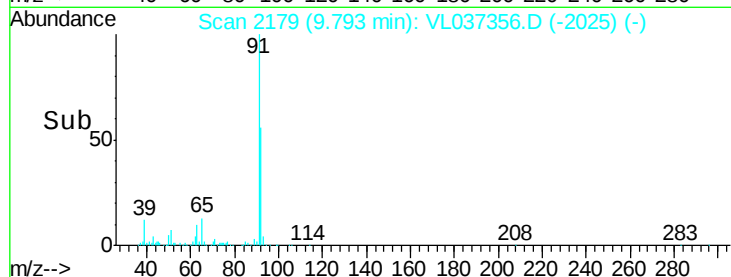
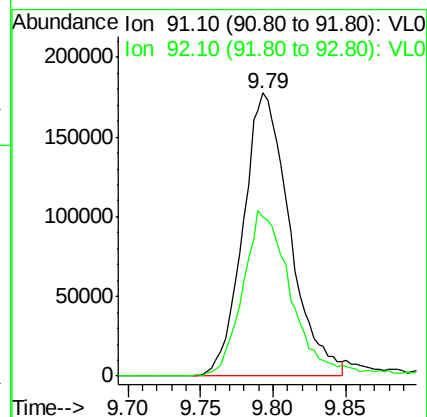
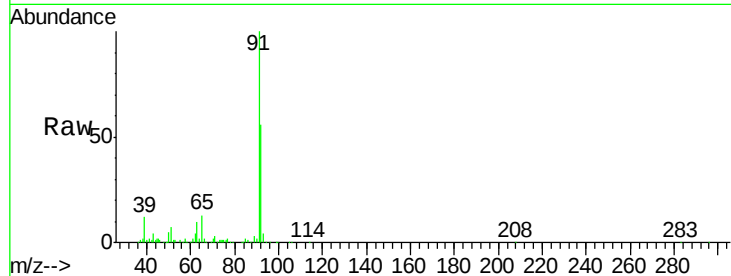
92 62.1 48.2 72.4

Manual Integrations

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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: VL037356.D

Acq: 6 Aug 2021 23:19

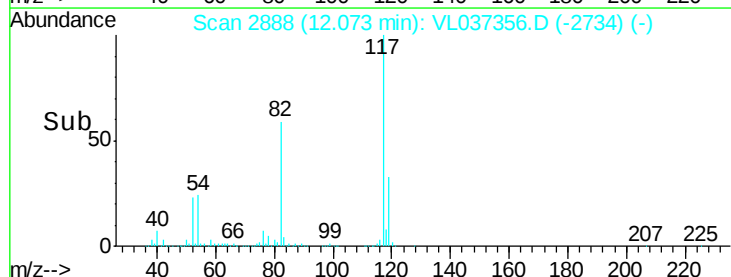
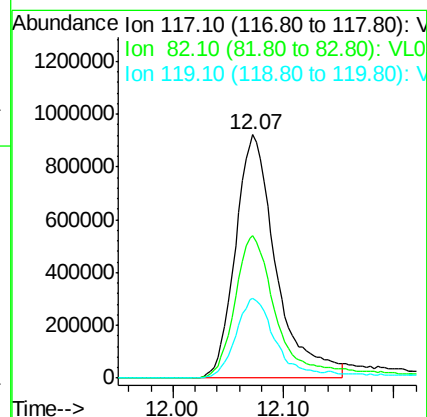
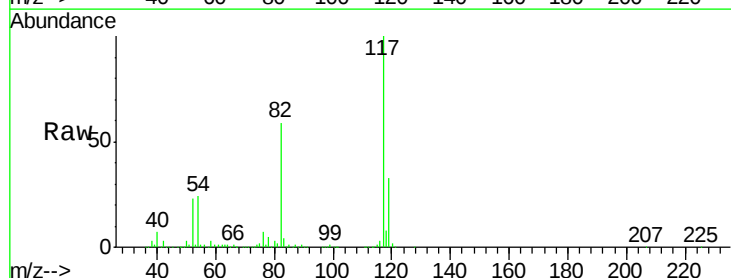
Tgt Ion: 117 Resp: 2362292

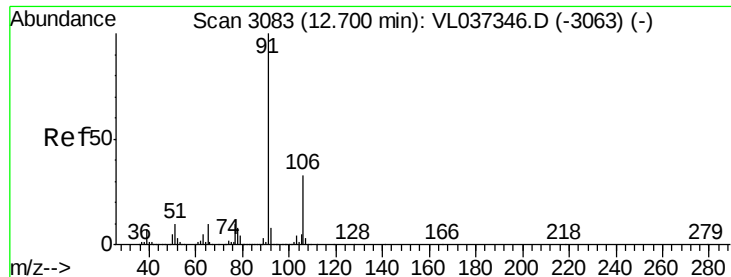
Ion Ratio Lower Upper

117 100

82 66.5 46.0 69.0

119 36.0 24.4 36.6





#58

Ethyl Benzene

Concen: 0.117 ppbv

RT: 12.70 min Scan# 3082

Delta R.T. -0.00 min

Lab File: VL037356.D

Acq: 6 Aug 2021 23:19

Instrument :

MSVOA_L

ClientSampleId :

OFFSITE-DDC-EFFLUENT

Tot Ion: 91 Resp: 36085

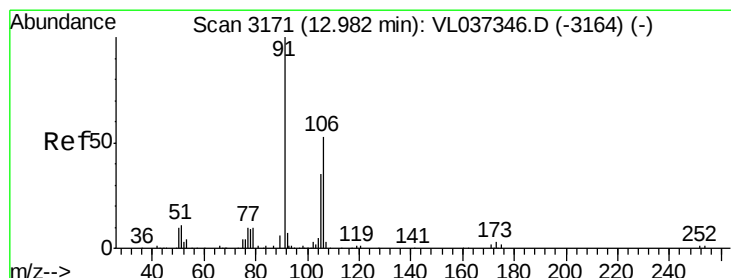
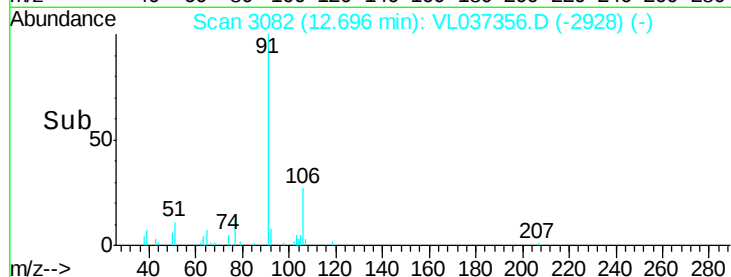
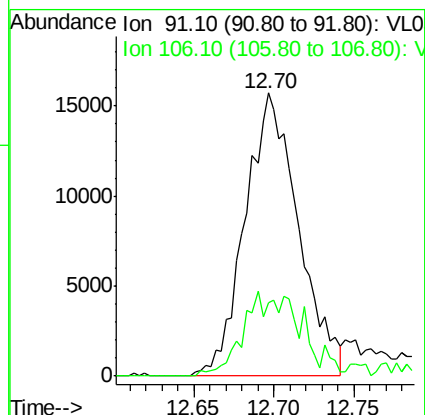
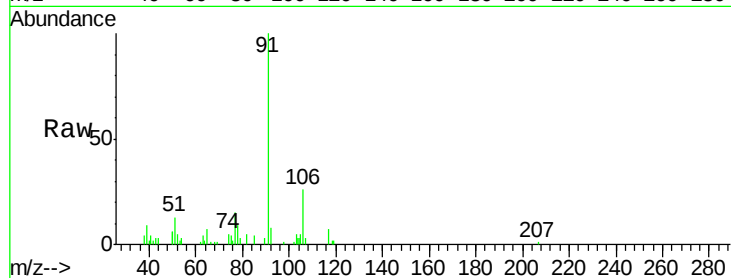
Ion Ratio Lower Upper

91 100

106 25.8 26.2 39.2#

Manual Integrations
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#59

m/p-Xylene

Concen: 0.369 ppbv m

RT: 12.96 min Scan# 3163

Delta R.T. -0.03 min

Lab File: VL037356.D

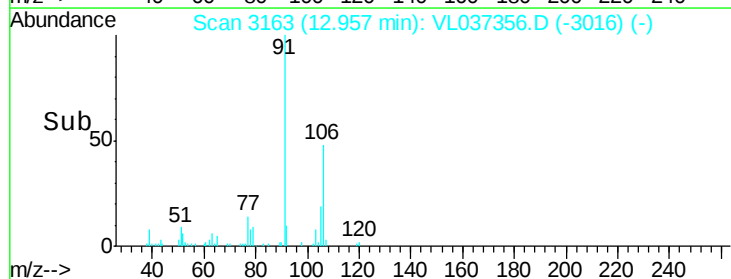
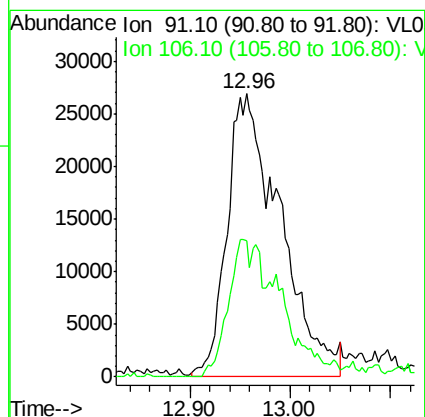
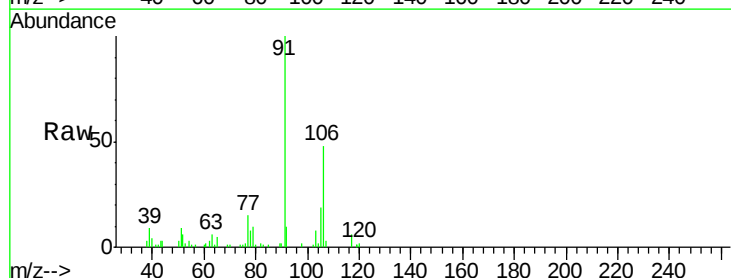
Acq: 6 Aug 2021 23:19

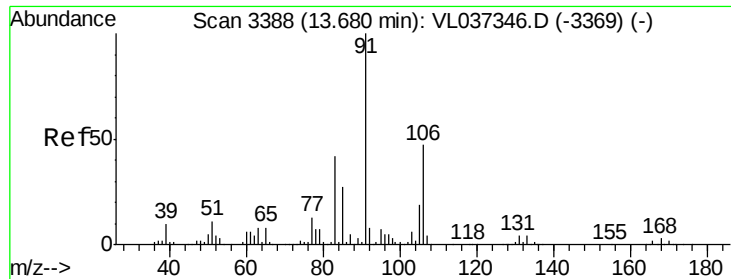
Tgt Ion: 91 Resp: 98978

Ion Ratio Lower Upper

91 100

106 0.0 37.0 55.6#





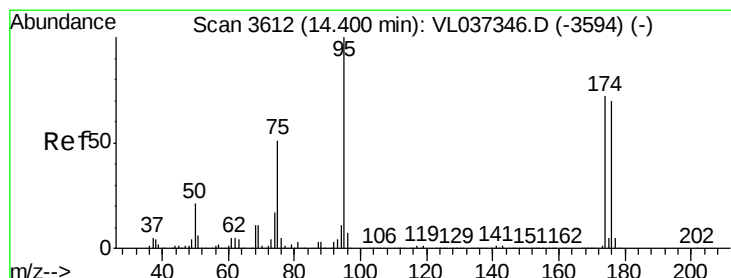
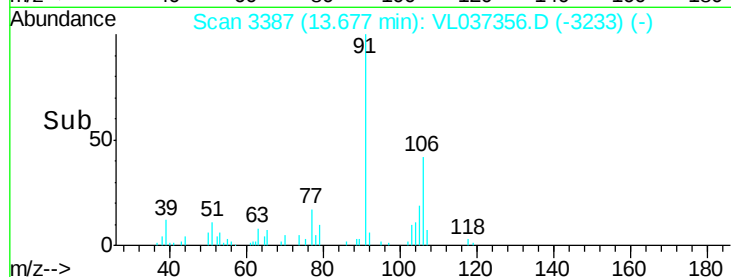
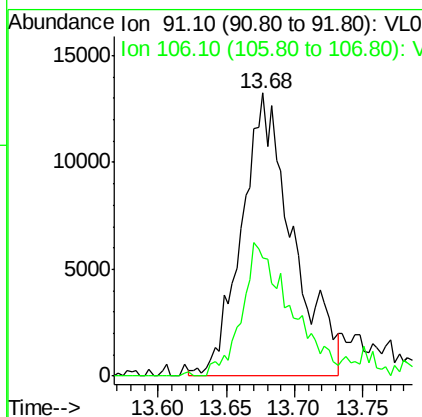
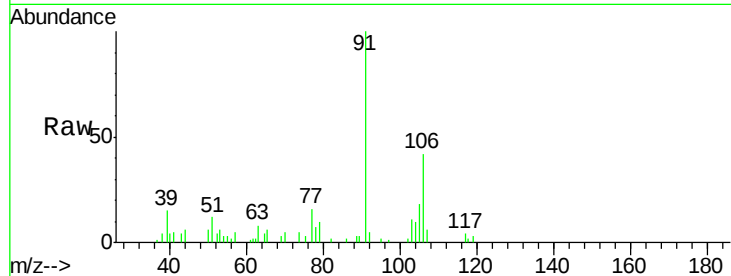
#60
o-Xylene
Concen: 0.138 ppbv m
RT: 13.68 min Scan# 3387
Delta R.T. -0.00 min
Lab File: VL037356.D
Acq: 6 Aug 2021 23:19

Instrument :
MSVOA_L
ClientSampleId :
OFFSITE-DDC-EFFLUENT

Tot Ion: 91 Resp: 34349
Ion Ratio Lower Upper
91 100
106 49.1 23.1 69.3

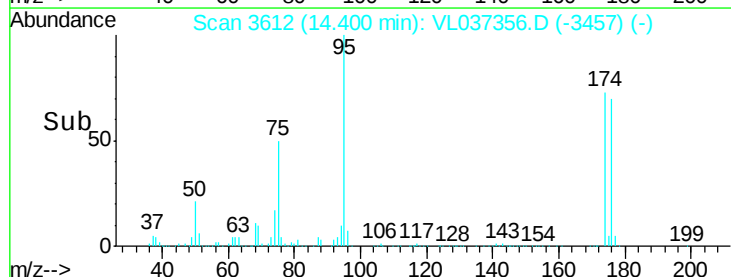
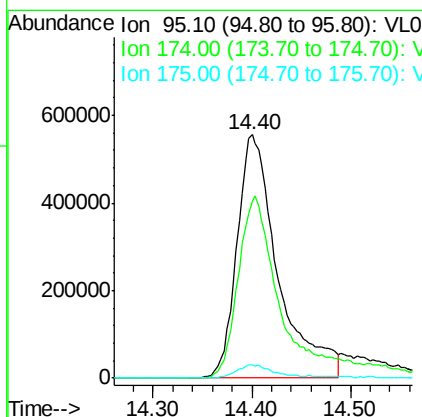
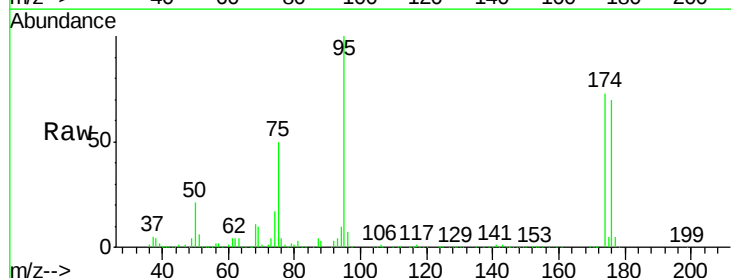
Manual Integrations
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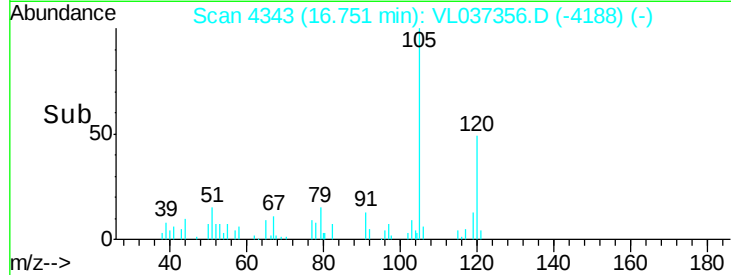
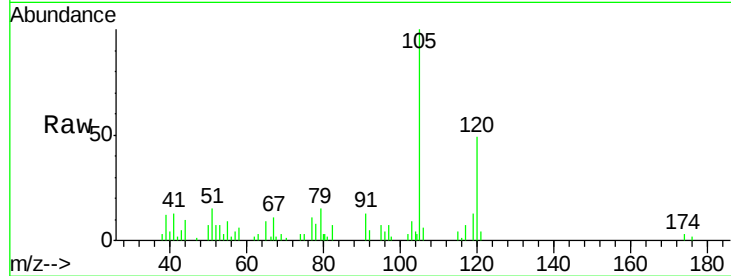
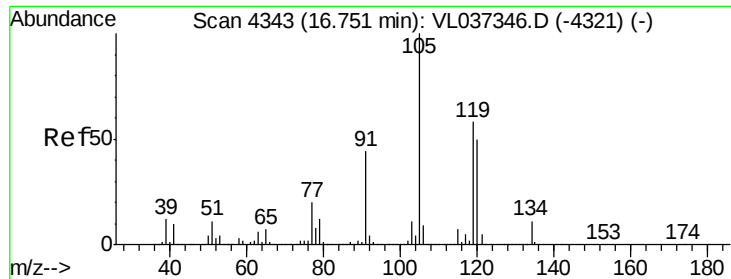
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#68
1-Bromo-4-Fluorobenzene
Concen: 9.670 ppbv
RT: 14.40 min Scan# 3612
Delta R.T. -0.00 min
Lab File: VL037356.D
Acq: 6 Aug 2021 23:19

Tgt Ion: 95 Resp: 1609264
Ion Ratio Lower Upper
95 100
174 83.2 60.8 91.2
175 5.6 4.3 6.5





#74
 1,2,4-Trimethylbenzene
 Concen: 0.116 ppbv m
 RT: 16.75 min Scan# 4343
 Delta R.T. -0.00 min
 Lab File: VL037356.D
 Acq: 6 Aug 2021 23:19

Instrument :
 MSVOA_L
 ClientSampleId :
 OFFSITE-DDC-EFFLUENT

Tot Ion:	105	Resp:	33937
Ion Ratio	Lower	Upper	
105	100		
120	49.1	39.7	59.5
91	12.6	35.0	52.6#
77	11.1	16.1	24.1#

Manual Integrations
 APPROVED

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