

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080621\
 Data File : VL037364.D
 Acq On : 7 Aug 2021 4:38
 Operator : SY/AP
 Sample : M3157-07
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 DDC-2-EFFLUENT

Manual Integrations
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MMDadoda
 8/10/2021 6:10:41 PM

Quant Time: Aug 07 06:36:11 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	838271	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2750484	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	2278988	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	1548928	9.65	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	39493	0.208	ppbv	97
3) Chlorodifluoromethane	2.98	51	56335m	0.337	ppbv	
4) Chloromethane	3.14	50	33194	0.581	ppbv	93
9) Propene	3.02	41	52777m	0.941	ppbv	
10) Heptane	8.11	43	19752m	0.151	ppbv	
11) Trichlorofluoromethane	3.95	101	34946	0.215	ppbv	96
13) Ethanol	3.61	45	291680	28.188	ppbv	97
15) Acetone	3.85	43	674702	7.724	ppbv	97
19) Isopropyl Alcohol	3.98	45	134735m	2.548	ppbv	
20) Methylene Chloride	4.34	84	53442	0.731	ppbv	91
26) Hexane	5.68	57	49460	0.405	ppbv #	78
29) Chloroform	5.74	83	22147m	0.135	ppbv	
30) Cyclohexane	7.11	84	12264m	0.129	ppbv	
34) 2-Butanone	5.24	43	180636	1.956	ppbv	92
35) Carbon Tetrachloride	7.01	117	11994m	0.070	ppbv	
36) Benzene	6.88	78	82493	0.391	ppbv	94
41) Tetrahydrofuran	6.07	42	28337m	0.624	ppbv	
44) 2,2,4-Trimethylpentane	7.86	57	62963	0.179	ppbv #	84
52) Tetrachloroethene	11.21	164	34553m	0.344	ppbv	
53) Toluene	9.80	91	227818	0.927	ppbv	99
59) m/p-Xylene	12.96	91	58608m	0.226	ppbv	

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

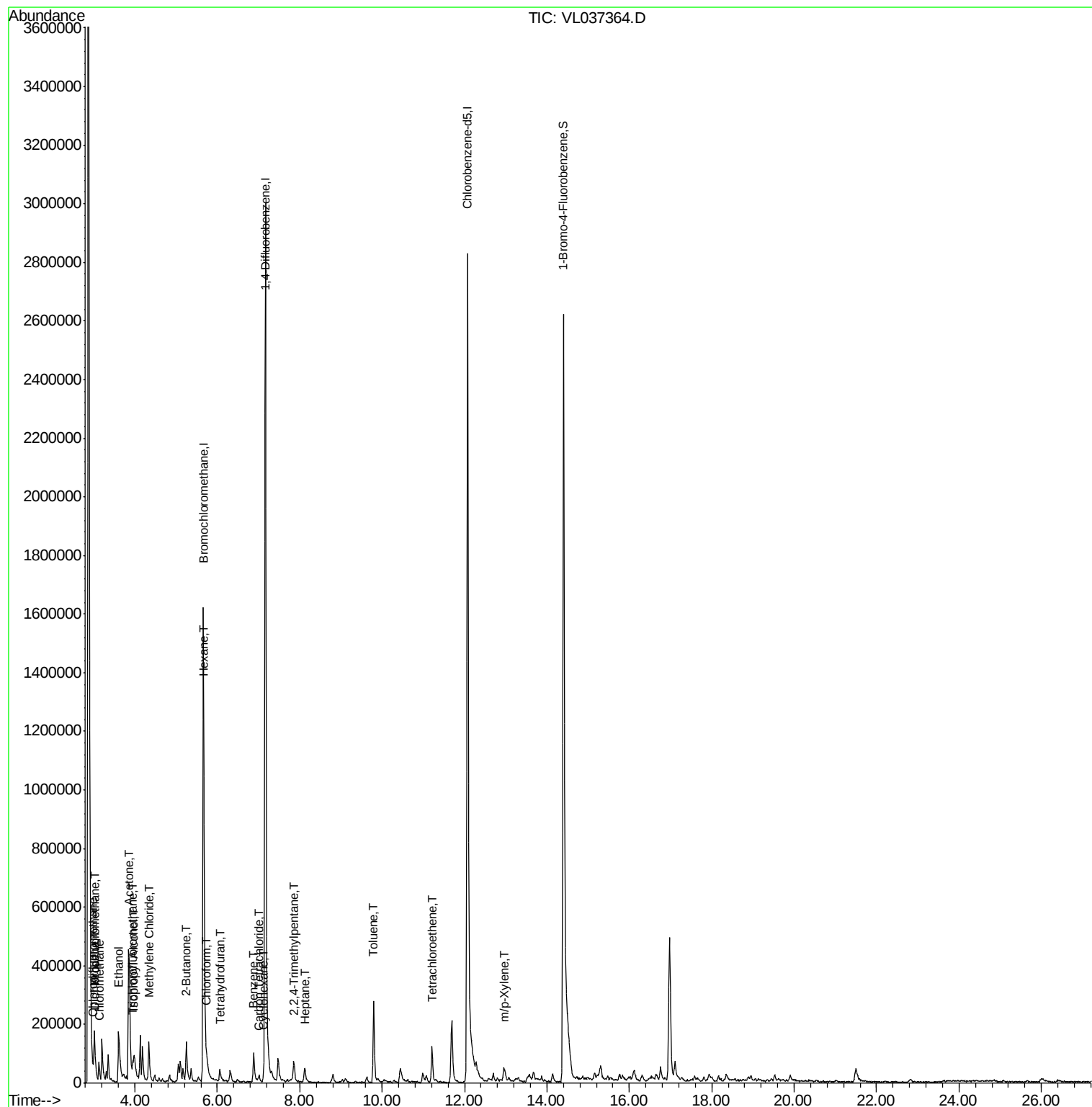
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080621\
Data File : VL037364.D
Acq On : 7 Aug 2021 4:38
Operator : SY/AP
Sample : M3157-07
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

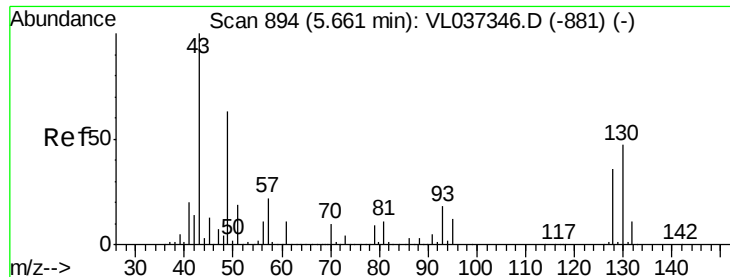
Instrument :
MSVOA_L
ClientSampleId :
DDC-2-EFFLUENT

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Quant Time: Aug 07 06:36:11 2021
Quant Method : Z:\VOASRV\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# 894

Delta R.T. 0.00 min

Lab File: VL037364.D

Acq: 7 Aug 2021 4:38

Instrument :

MSVOA_L

ClientSampleId :

DDC-2-EFFLUENT

Tot Ion: 49 Resp: 838271

Ion Ratio Lower Upper

49 100

128 62.9 32.1 96.3

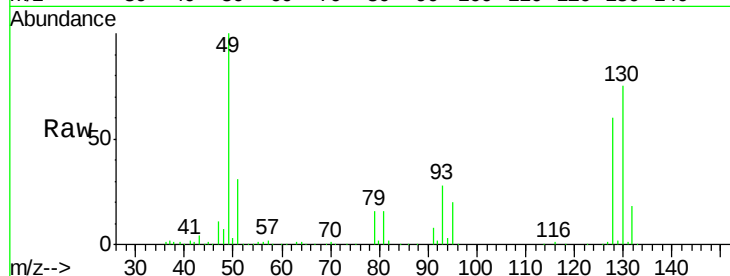
130 80.9 40.0 120.0

Manual Integrations

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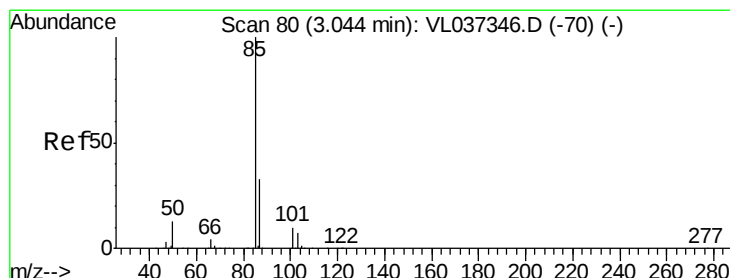
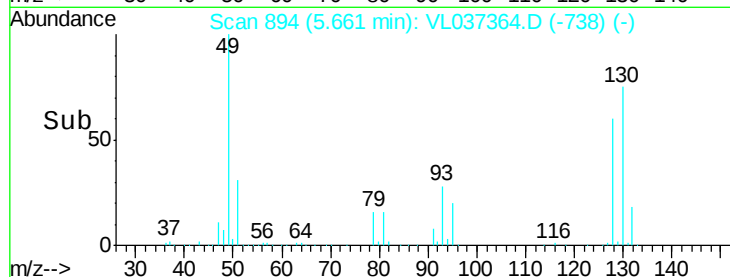
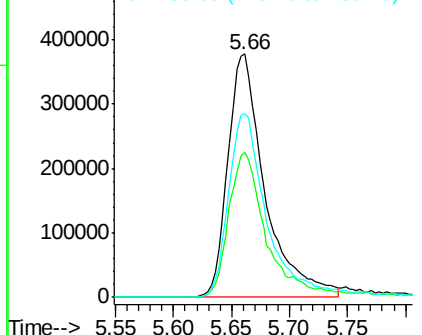
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.208 ppbv

RT: 3.04 min Scan# 80

Delta R.T. 0.00 min

Lab File: VL037364.D

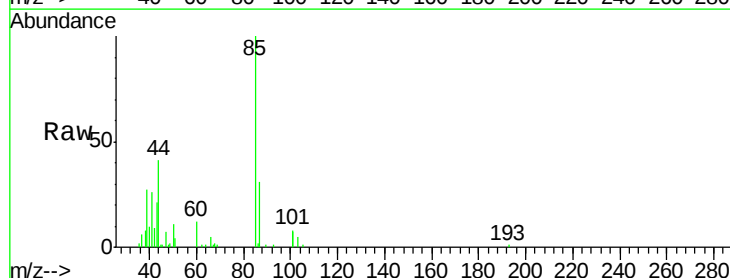
Acq: 7 Aug 2021 4:38

Tgt Ion: 85 Resp: 39493

Ion Ratio Lower Upper

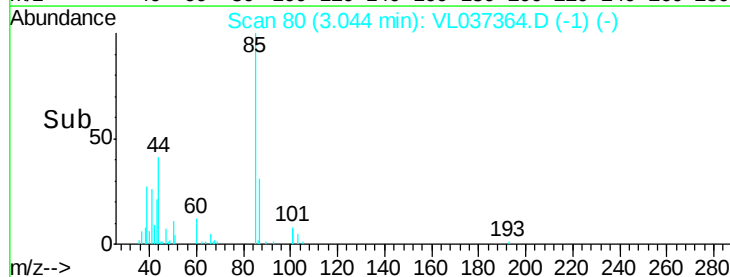
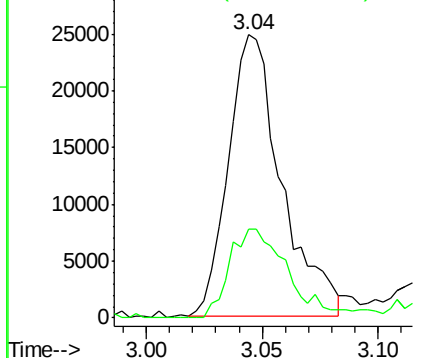
85 100

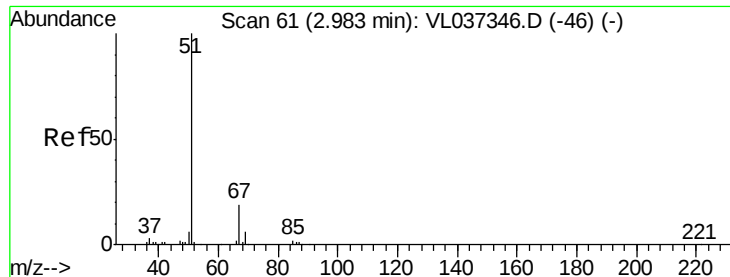
87 31.5 26.4 39.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.337 ppbv

RT: 2.98 min Scan# 61

Delta R.T. 0.00 min

Lab File: VL037364.D

Acq: 7 Aug 2021 4:38

Instrument :

MSVOA_L

ClientSampleId :

DDC-2-EFFLUENT

Tot Ion: 51 Resp: 56335

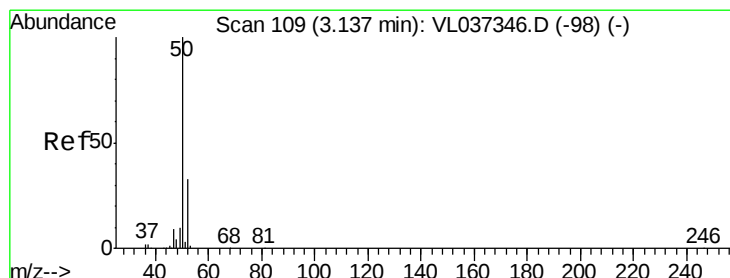
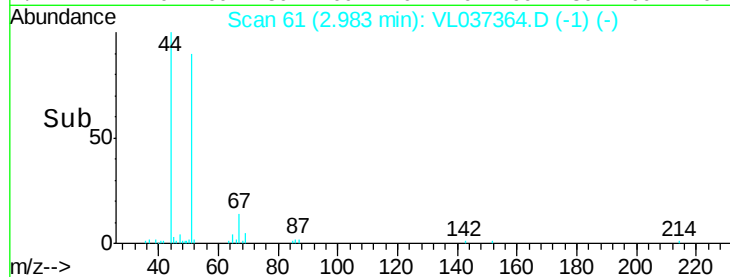
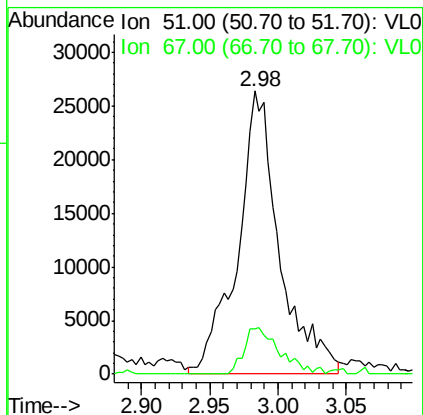
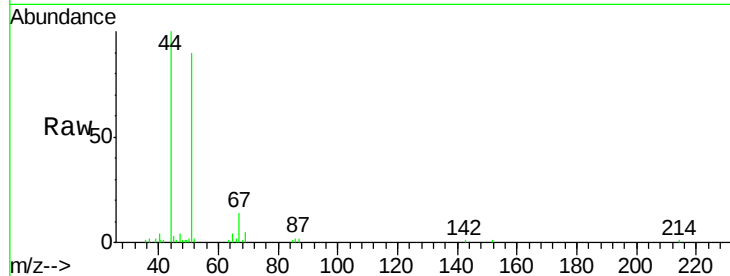
Ion Ratio Lower Upper

51 100

67 0.7 15.6 23.4#

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#4

Chloromethane

Concen: 0.581 ppbv

RT: 3.14 min Scan# 110

Delta R.T. 0.00 min

Lab File: VL037364.D

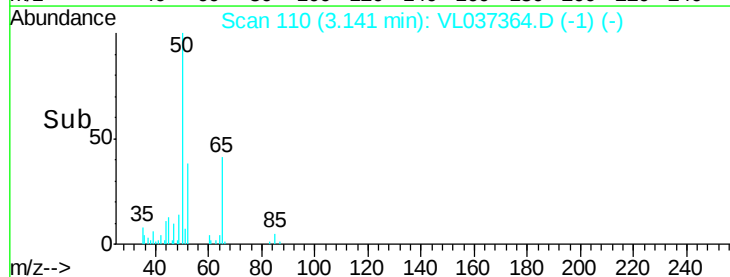
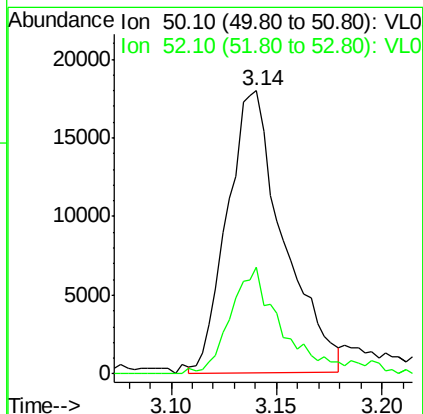
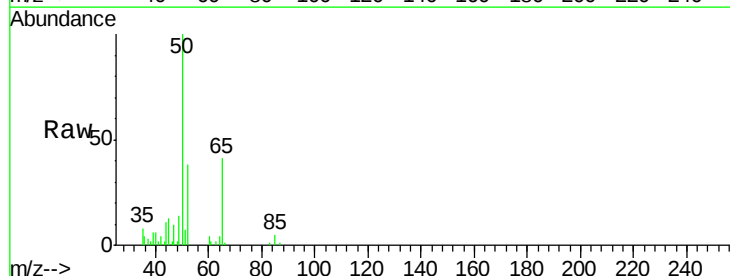
Acq: 7 Aug 2021 4:38

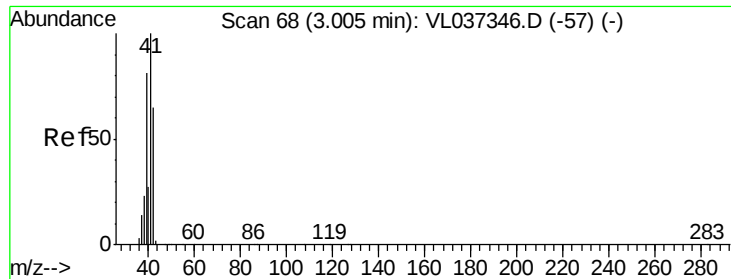
Tgt Ion: 50 Resp: 33194

Ion Ratio Lower Upper

50 100

52 36.8 26.3 39.5





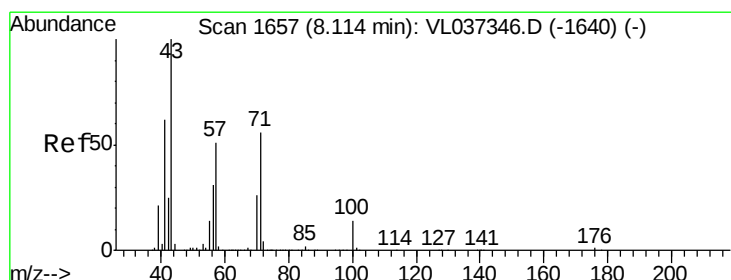
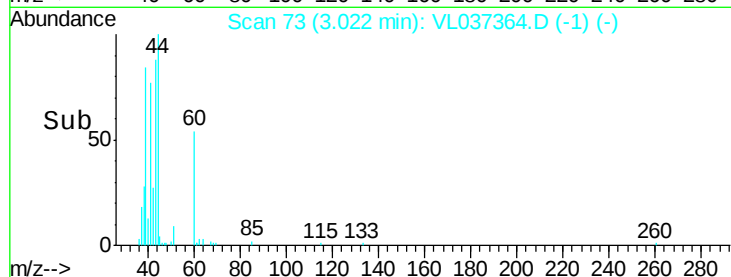
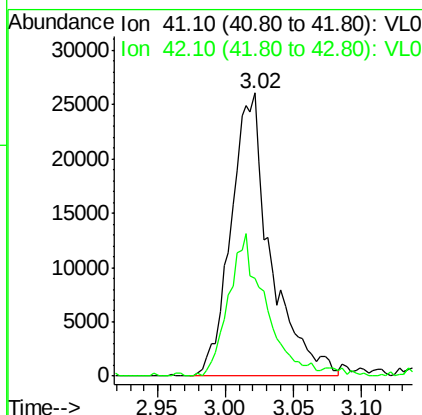
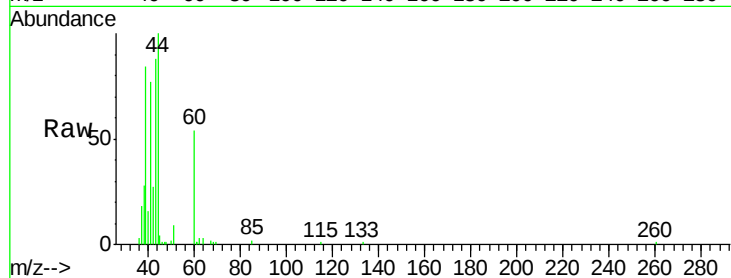
#9
 Propene
 Concen: 0.941 ppbv m
 RT: 3.02 min Scan# 73
 Delta R.T. 0.02 min
 Lab File: VL037364.D
 Acq: 7 Aug 2021 4:38

Instrument :
 MSVOA_L
 ClientSampleId :
 DDC-2-EFFLUENT

Tot Ion: 41 Resp: 52777
 Ion Ratio Lower Upper
 41 100
 42 48.8 54.3 81.5#

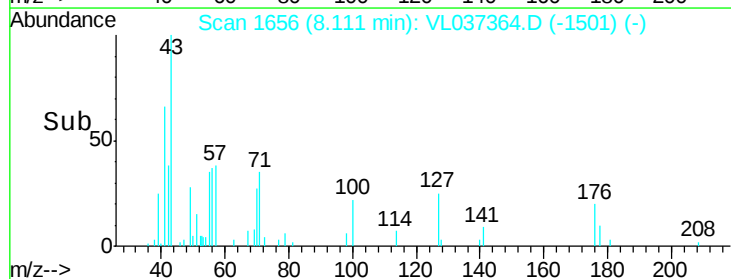
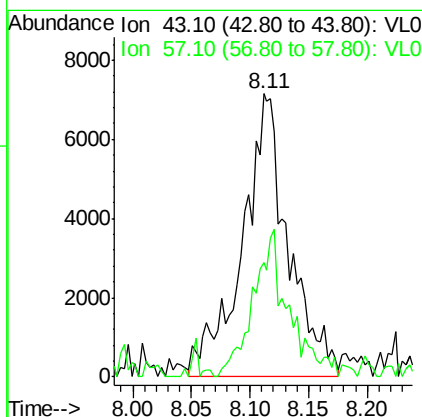
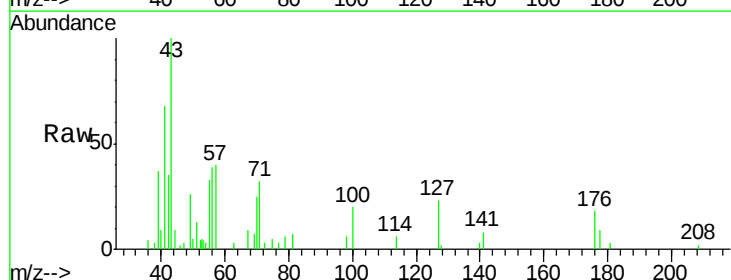
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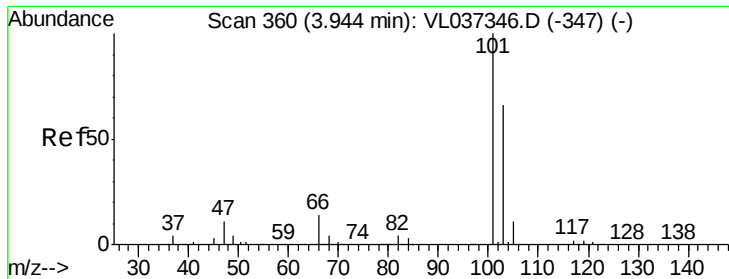
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#10
 Heptane
 Concen: 0.151 ppbv m
 RT: 8.11 min Scan# 1656
 Delta R.T. -0.00 min
 Lab File: VL037364.D
 Acq: 7 Aug 2021 4:38

Tgt Ion: 43 Resp: 19752
 Ion Ratio Lower Upper
 43 100
 57 0.0 41.6 62.4#





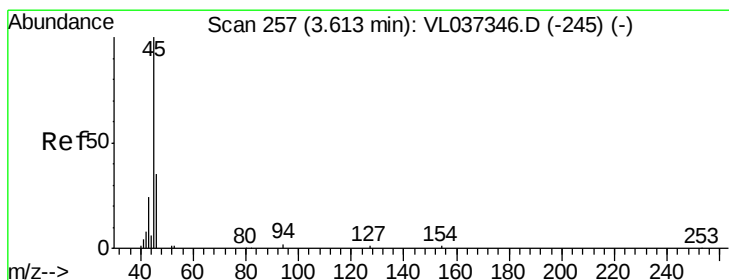
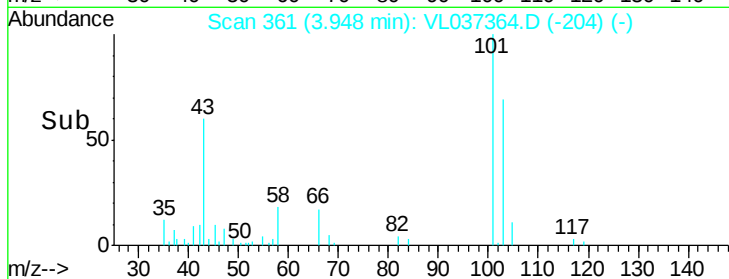
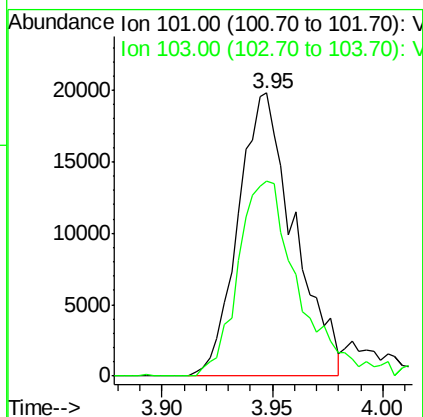
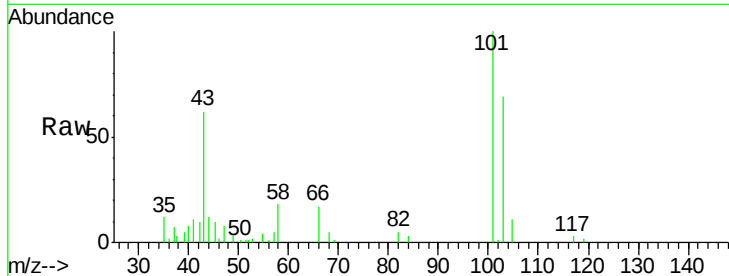
#11
Trichlorofluoromethane
Concen: 0.215 ppbv
RT: 3.95 min Scan# 361
Delta R.T. 0.00 min
Lab File: VL037364.D
Acq: 7 Aug 2021 4:38

Instrument :
MSVOA_L
ClientSampleId :
DDC-2-EFFLUENT

Tot Ion:101 Resp: 34946
Ion Ratio Lower Upper
101 100
103 69.1 52.5 78.7

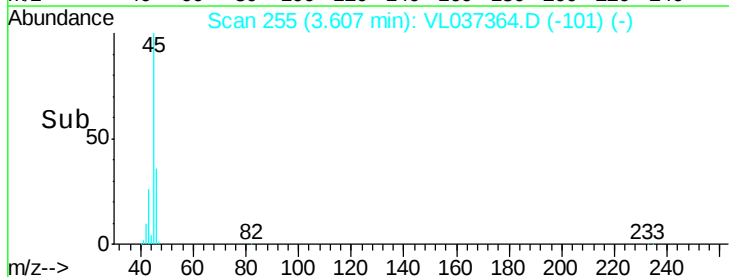
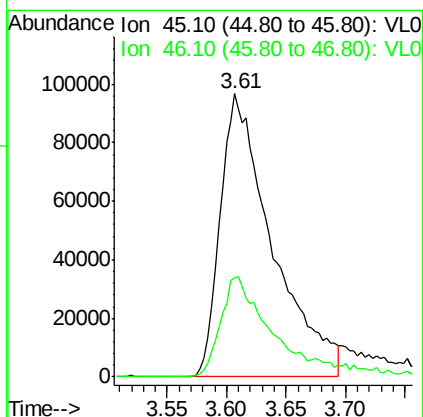
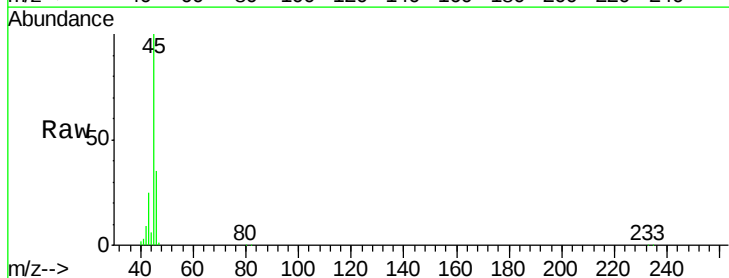
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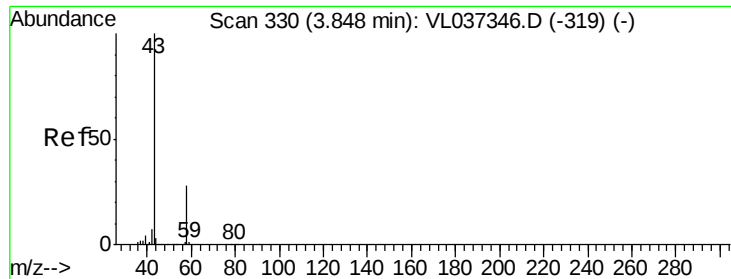
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#13
Ethanol
Concen: 28.188 ppbv
RT: 3.61 min Scan# 255
Delta R.T. -0.01 min
Lab File: VL037364.D
Acq: 7 Aug 2021 4:38

Tgt Ion: 45 Resp: 291680
Ion Ratio Lower Upper
45 100
46 37.6 15.7 62.9





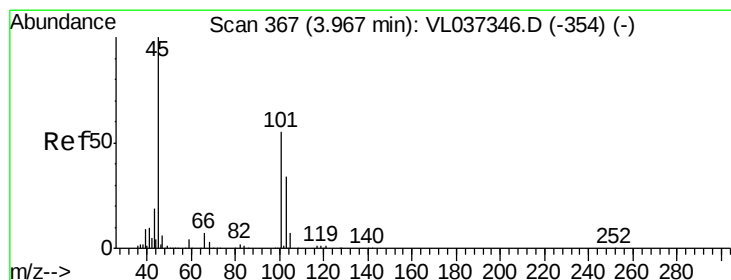
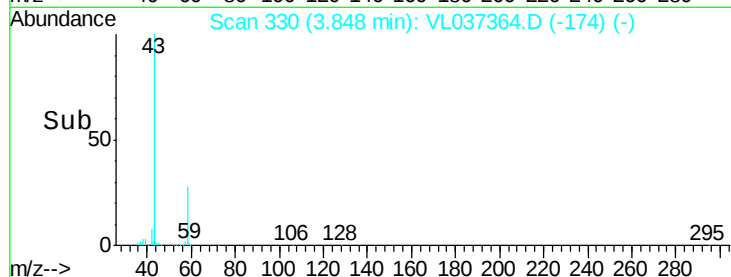
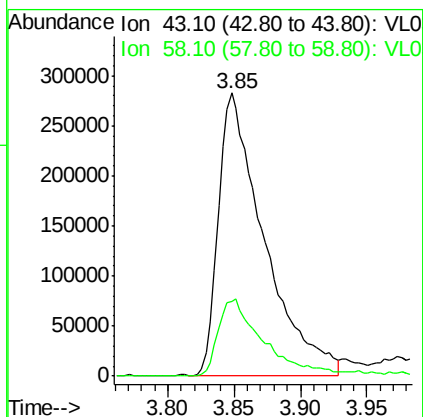
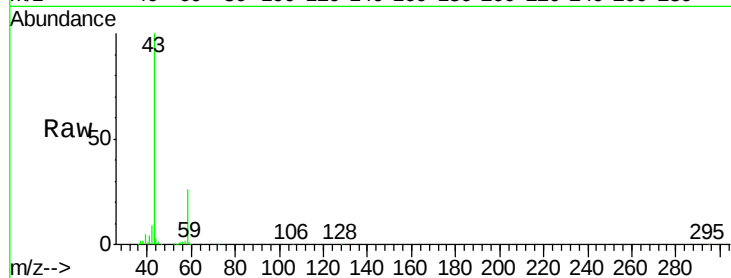
#15
Acetone
Concen: 7.724 ppbv
RT: 3.85 min Scan# 330
Delta R.T. 0.00 min
Lab File: VL037364.D
Acq: 7 Aug 2021 4:38

Instrument :
MSVOA_L
ClientSampleId :
DDC-2-EFFLUENT

Tot Ion: 43 Resp: 674702
Ion Ratio Lower Upper
43 100
58 29.1 24.6 36.8

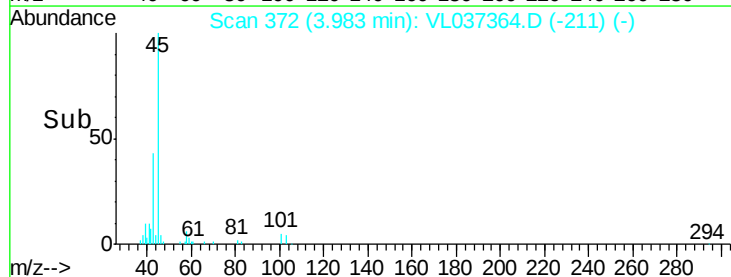
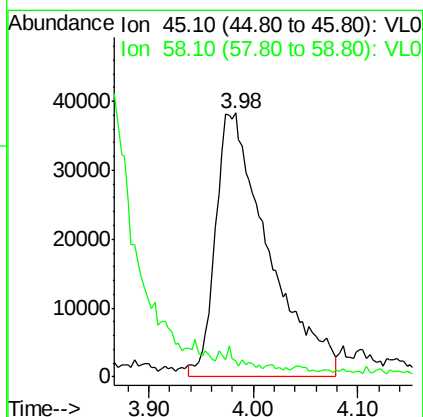
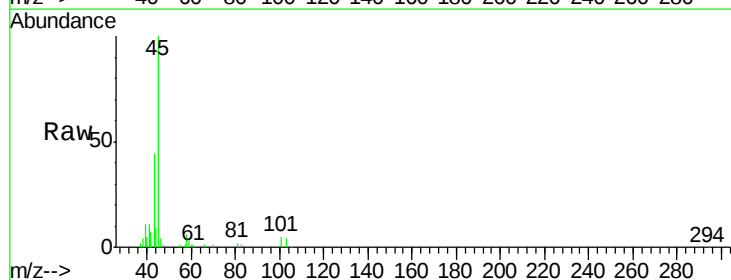
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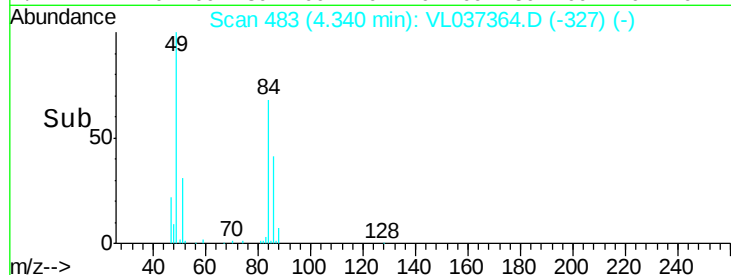
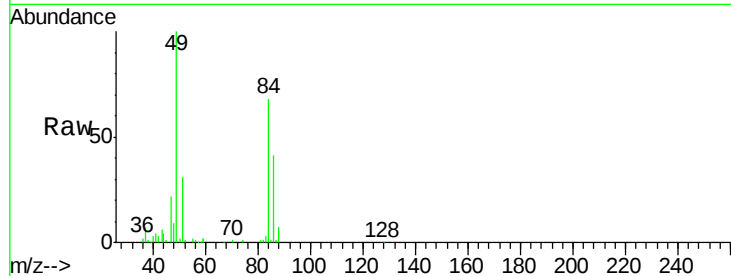
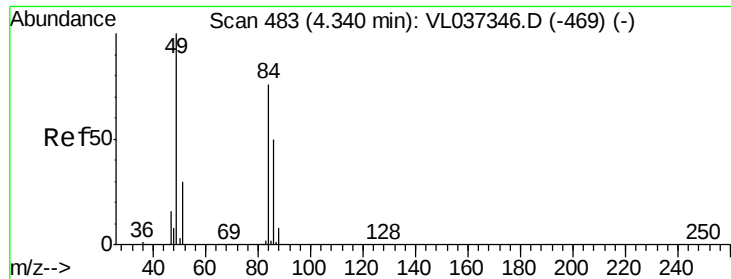
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#19
Isopropyl Alcohol
Concen: 2.548 ppbv m
RT: 3.98 min Scan# 372
Delta R.T. 0.02 min
Lab File: VL037364.D
Acq: 7 Aug 2021 4:38

Tgt Ion: 45 Resp: 134735
Ion Ratio Lower Upper
45 100
58 5.6 1.8 2.8#





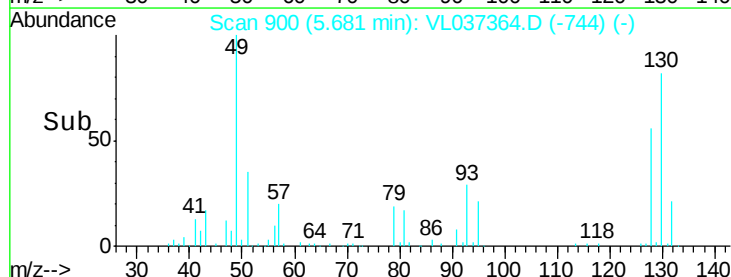
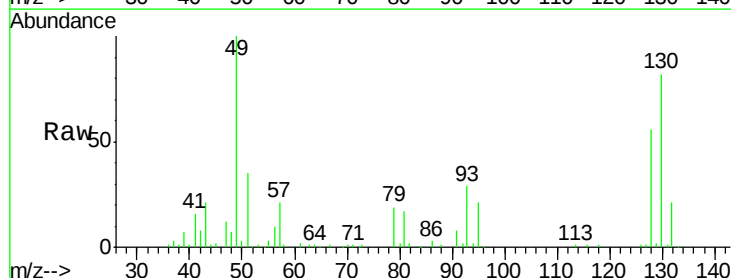
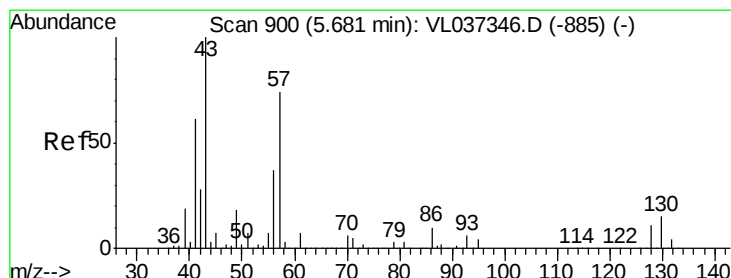
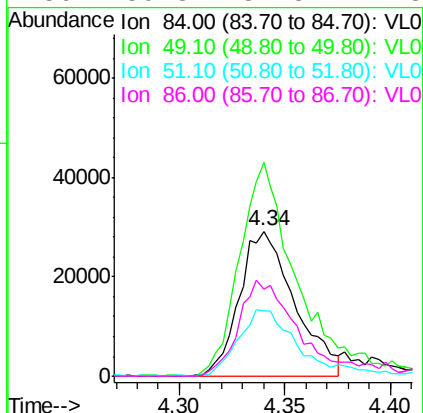
#20
Methvlene Chloride
Concen: 0.731 ppbv
RT: 4.34 min Scan# 483
Delta R.T. 0.00 min
Lab File: VL037364.D
Acq: 7 Aug 2021 4:38

Tot Ion:	84	Resp:	53442
Ion	Ratio	Lower	Upper
84	100		
49	147.1	107.3	160.9
51	45.4	33.0	49.4
86	59.8	51.8	77.8

Instrument :
MSVOA_L
ClientSampleId :
DDC-2-EFFLUENT

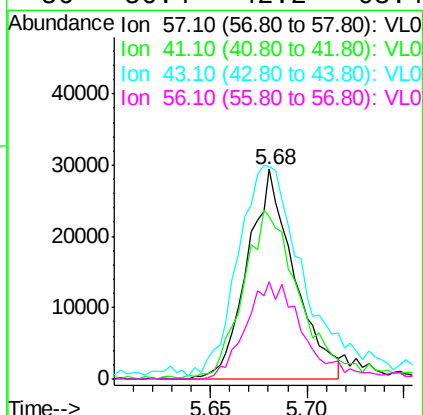
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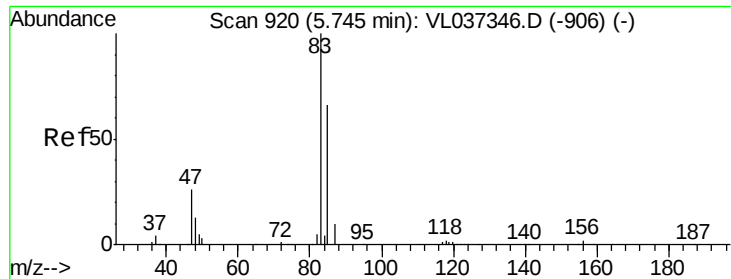
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#26
Hexane
Concen: 0.405 ppbv
RT: 5.68 min Scan# 900
Delta R.T. 0.00 min
Lab File: VL037364.D
Acq: 7 Aug 2021 4:38

Tgt Ion:	57	Resp:	49460
Ion	Ratio	Lower	Upper
57	100		
41	102.0	69.2	103.8
43	158.2	162.1	243.1#
56	56.4	42.2	63.4





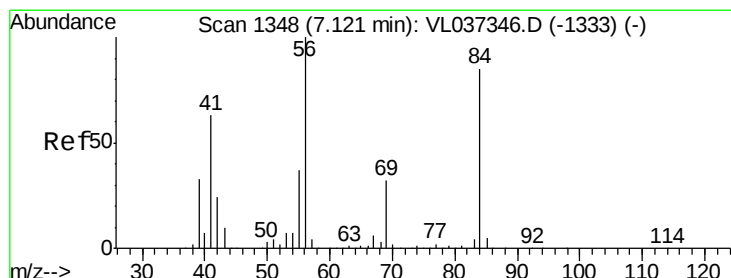
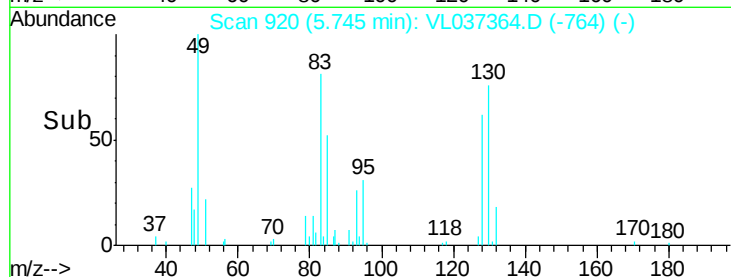
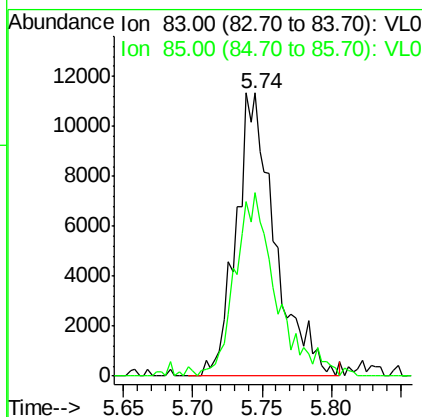
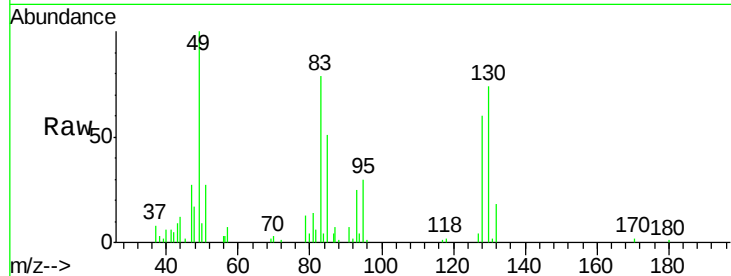
#29
Chloroform
Concen: 0.135 ppbv m
RT: 5.74 min Scan# 920
Delta R.T. 0.00 min
Lab File: VL037364.D
Acq: 7 Aug 2021 4:38

Instrument :
MSVOA_L
ClientSampleId :
DDC-2-EFFLUENT

Tot Ion	83	Resp	22147
Ion Ratio	100	Lower	Upper
85	64.9	53.1	79.7

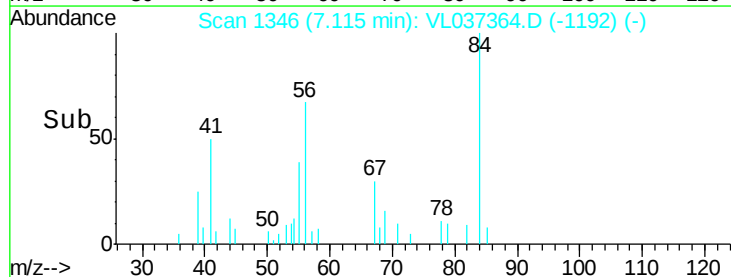
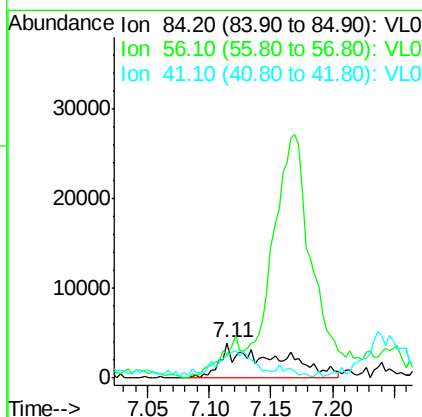
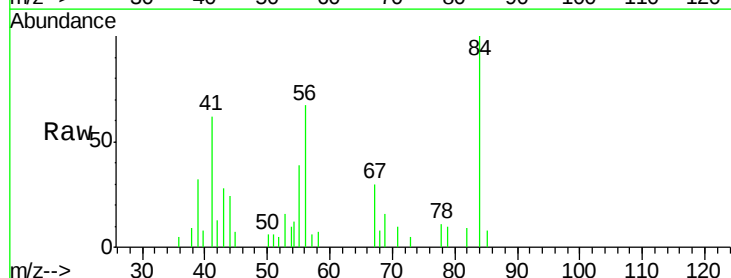
Manual Integrations
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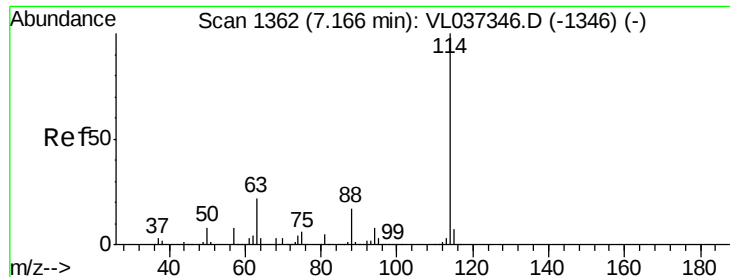
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#30
Cyclohexane
Concen: 0.129 ppbv m
RT: 7.11 min Scan# 1346
Delta R.T. -0.01 min
Lab File: VL037364.D
Acq: 7 Aug 2021 4:38

Tgt Ion	84	Resp	12264
Ion Ratio	100	Lower	Upper
56	0.0	103.5	155.3#
41	56.5	61.4	92.2#





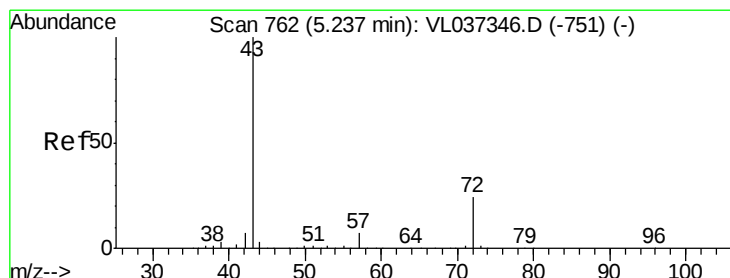
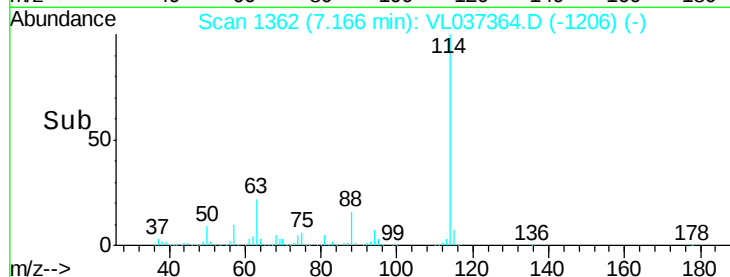
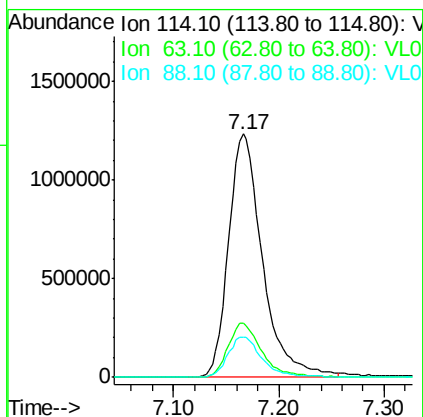
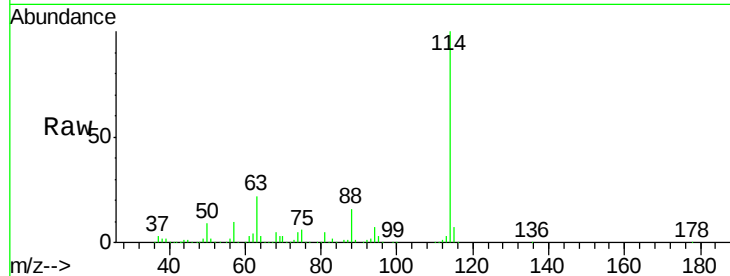
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1362
 Delta R.T. 0.00 min
 Lab File: VL037364.D
 Acq: 7 Aug 2021 4:38

Instrument :
 MSVOA_L
 ClientSampleId :
 DDC-2-EFFLUENT

Tot Ion:114 Resp: 2750484
 Ion Ratio Lower Upper
 114 100
 63 22.5 17.8 26.6
 88 16.8 13.5 20.3

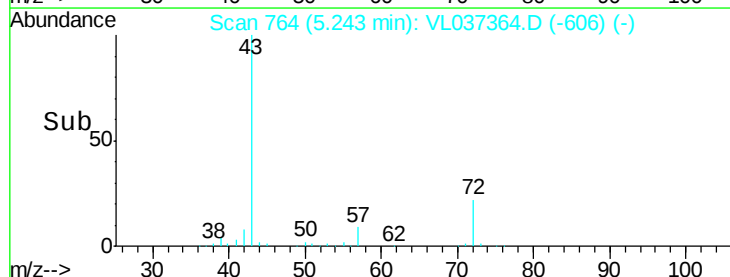
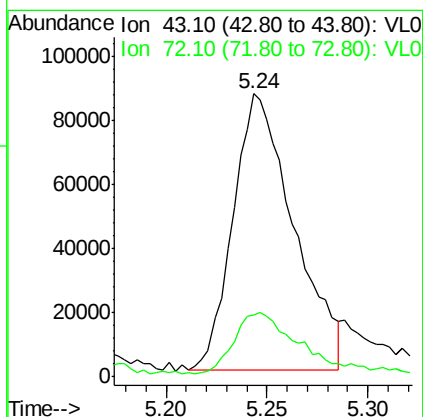
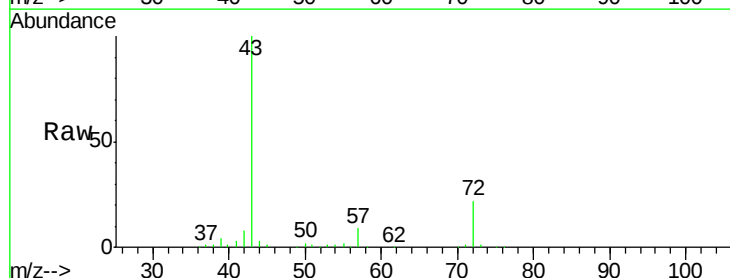
Manual Integrations
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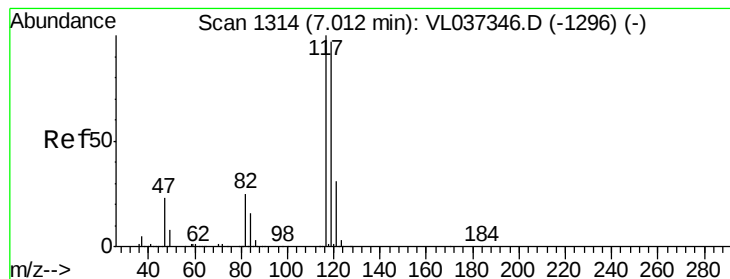
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#34
 2-Butanone
 Concen: 1.956 ppbv
 RT: 5.24 min Scan# 764
 Delta R.T. 0.01 min
 Lab File: VL037364.D
 Acq: 7 Aug 2021 4:38

Tgt Ion: 43 Resp: 180636
 Ion Ratio Lower Upper
 43 100
 72 28.8 19.8 29.6





#35

Carbon Tetrachloride

Concen: 0.070 ppbv m

RT: 7.01 min Scan# 1314

Delta R.T. 0.00 min

Lab File: VL037364.D

Acq: 7 Aug 2021 4:38

Instrument :

MSVOA_L

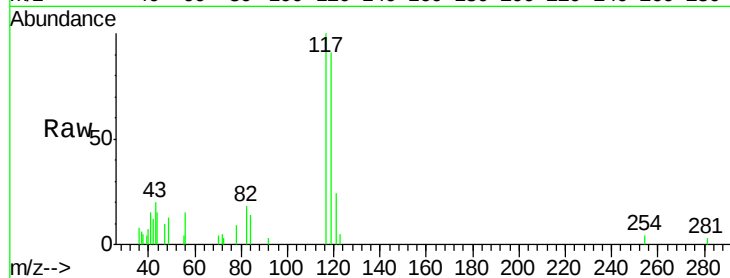
ClientSampleId :

DDC-2-EFFLUENT

Tot Ion	Ratio	Lower	Upper
117	100		
119	90.6	77.8	116.8
121	23.8	24.6	36.8#

Manual Integrations
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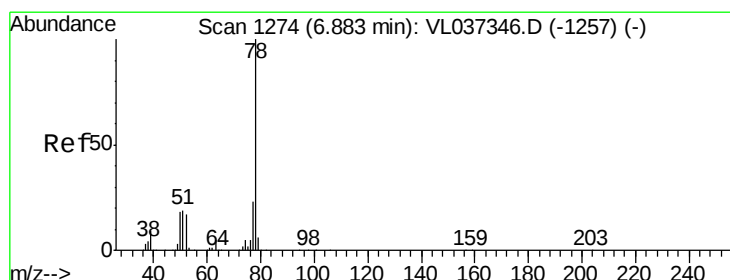
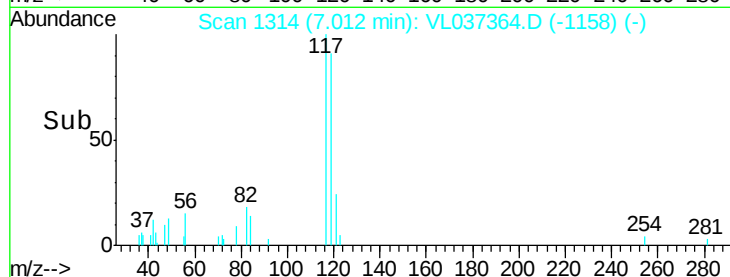
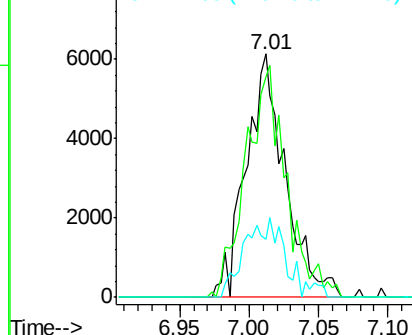
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Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.391 ppbv

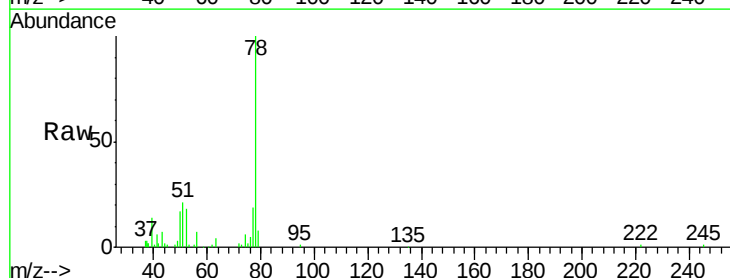
RT: 6.88 min Scan# 1273

Delta R.T. -0.00 min

Lab File: VL037364.D

Acq: 7 Aug 2021 4:38

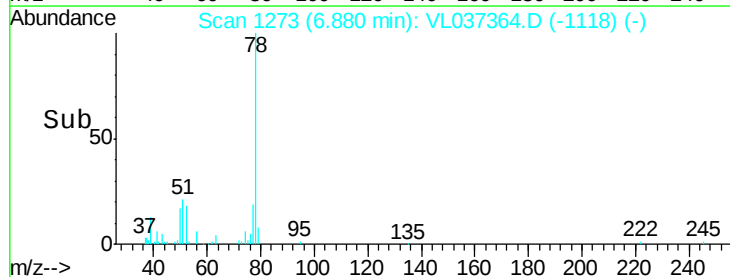
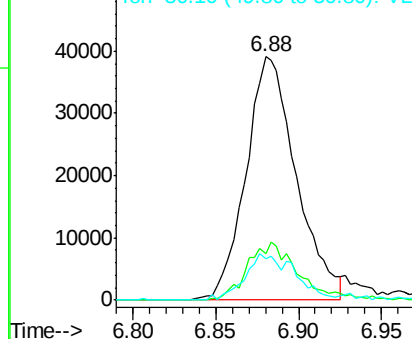
Tgt Ion	Ratio	Lower	Upper
78	100		
77	19.0	18.7	28.1
50	16.9	14.6	22.0

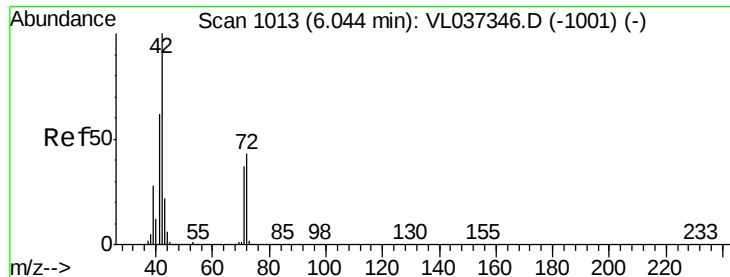


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#41

Tetrahydrofuran

Concen: 0.624 ppbv m

RT: 6.07 min Scan# 1020

Delta R.T. 0.02 min

Lab File: VL037364.D

Acq: 7 Aug 2021 4:38

Instrument :

MSVOA_L

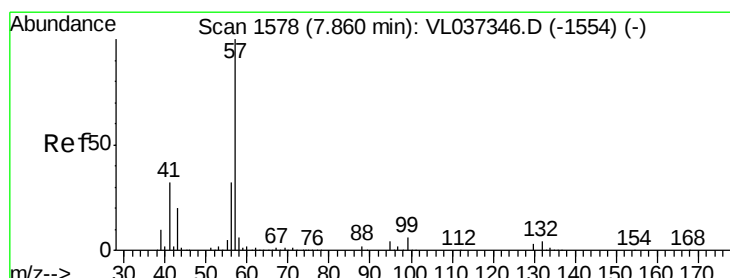
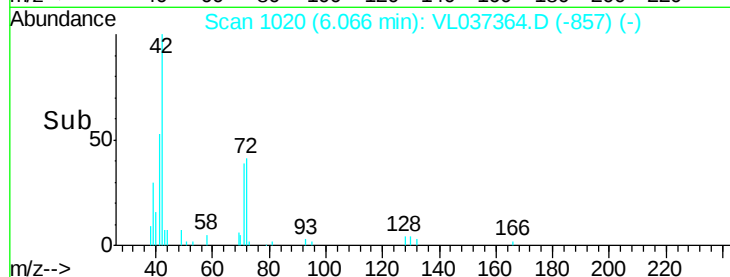
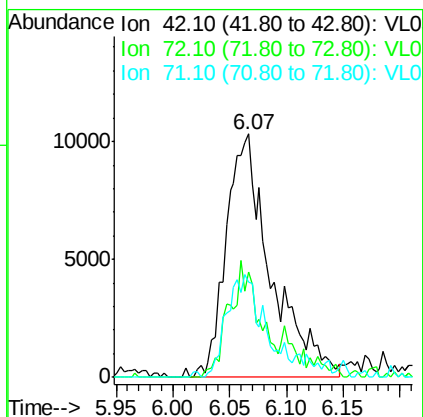
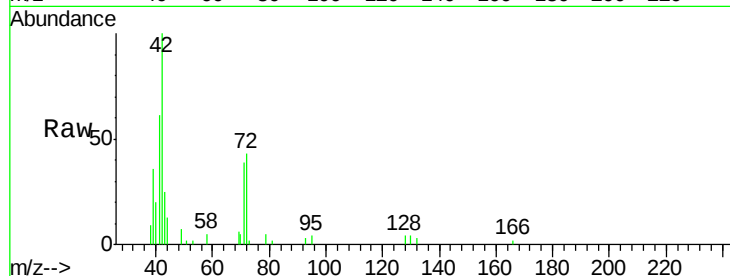
ClientSampleId :

DDC-2-EFFLUENT

Tot Ion	Ratio	Lower	Upper
42	100		
72	41.8	35.6	53.4
71	40.0	33.8	50.6

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#44

2,2,4-Trimethylpentane

Concen: 0.179 ppbv

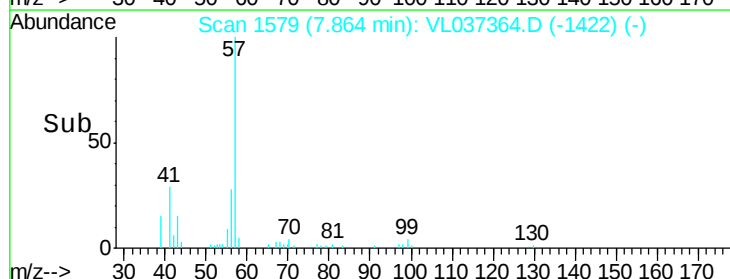
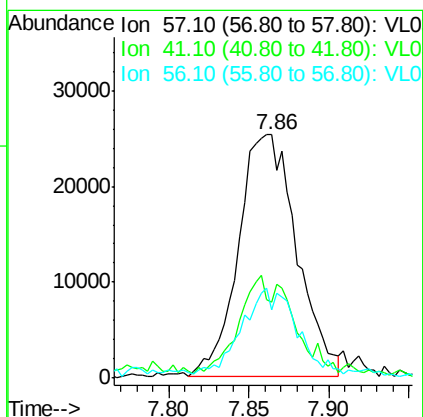
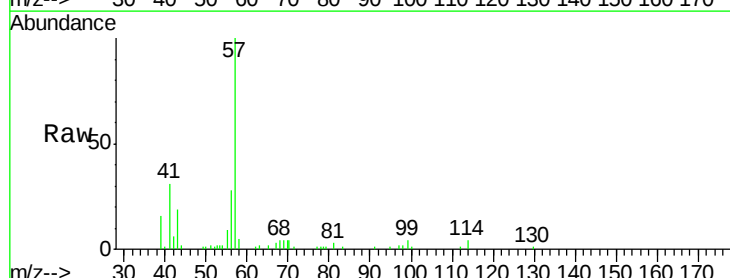
RT: 7.86 min Scan# 1579

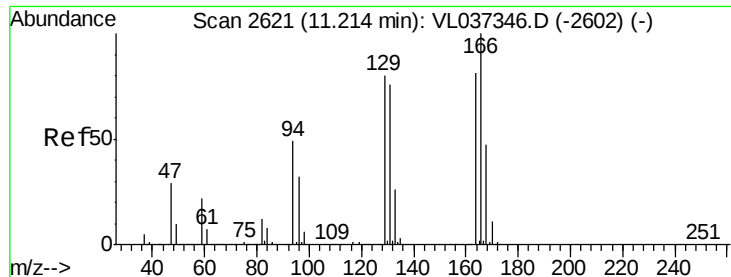
Delta R.T. 0.00 min

Lab File: VL037364.D

Acq: 7 Aug 2021 4:38

Tgt Ion	Ratio	Lower	Upper
57	100		
41	41.9	26.1	39.1#
56	40.1	25.0	37.4#





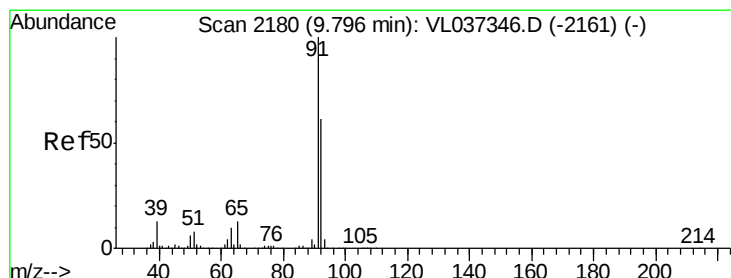
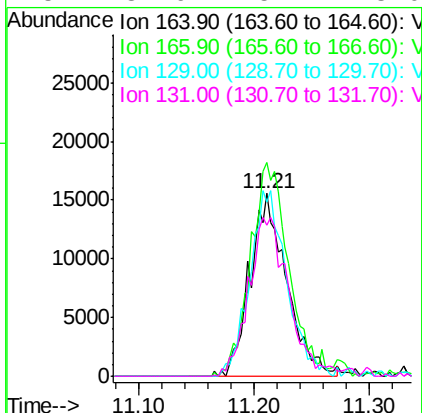
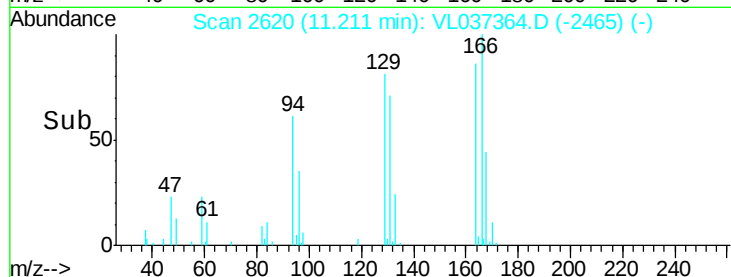
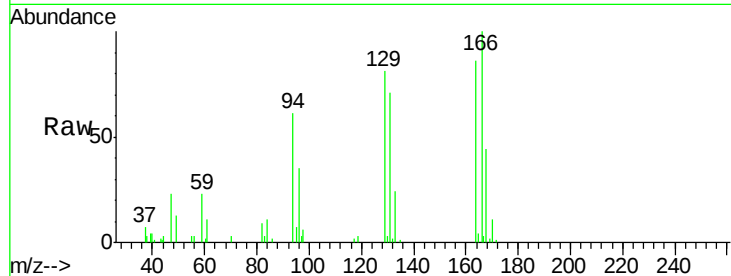
#52
Tetrachloroethene
Concen: 0.344 ppbv m
RT: 11.21 min Scan# 2620
Delta R.T. -0.00 min
Lab File: VL037364.D
Acq: 7 Aug 2021 4:38

Instrument :
MSVOA_L
ClientSampleId :
DDC-2-EFFLUENT

Tot Ion	Ratio	Lower	Upper
164	100		
166	116.8	99.4	149.0
129	95.2	79.2	118.8
131	82.9	75.4	113.0

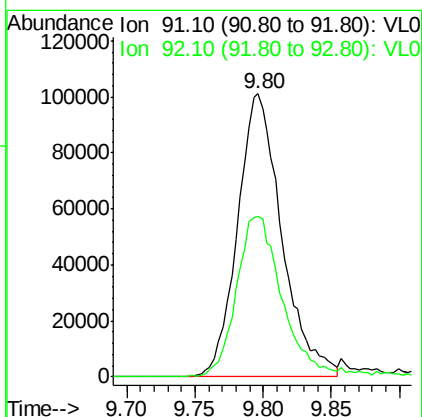
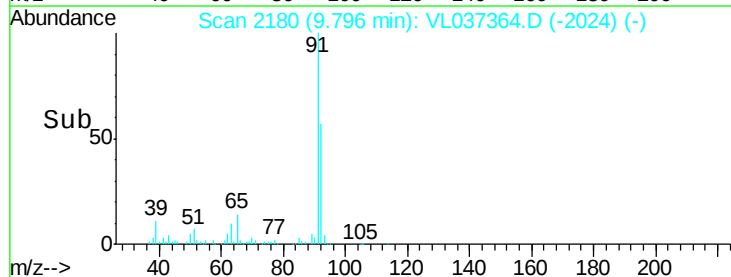
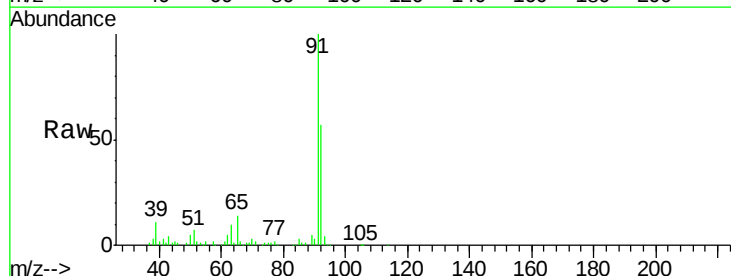
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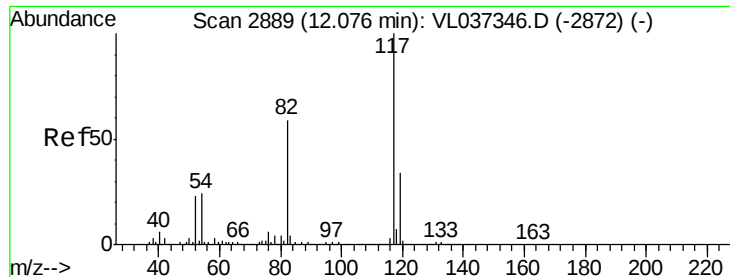
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#53
Toluene
Concen: 0.927 ppbv
RT: 9.80 min Scan# 2180
Delta R.T. 0.00 min
Lab File: VL037364.D
Acq: 7 Aug 2021 4:38

Tgt Ion	Ratio	Lower	Upper
91	100		
92	59.9	48.2	72.4





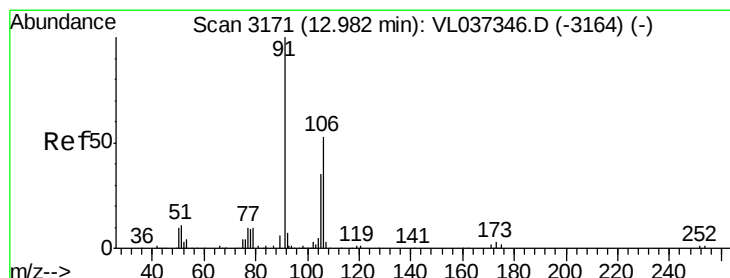
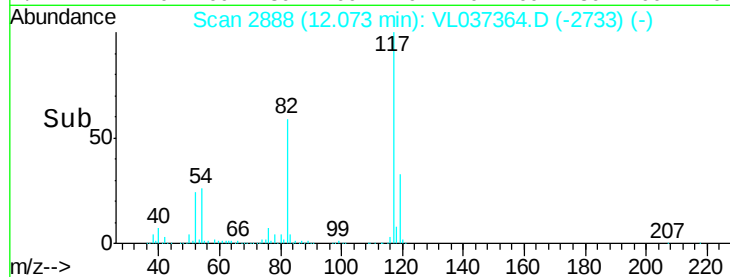
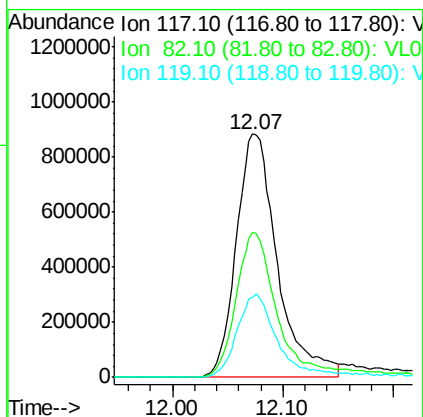
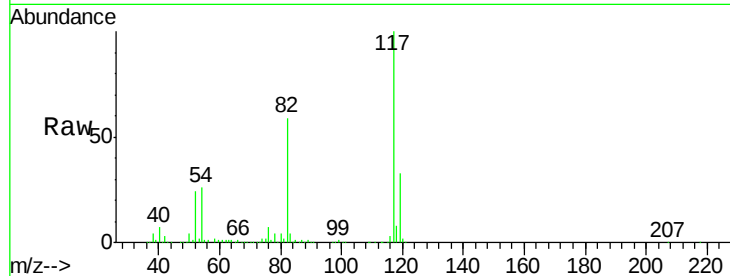
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min Scan# 2888
Delta R.T. -0.00 min
Lab File: VL037364.D
Acq: 7 Aug 2021 4:38

Instrument :
MSVOA_L
ClientSampleId :
DDC-2-EFFLUENT

Tot Ion	Ratio	Lower	Upper
117	100		
82	63.3	46.0	69.0
119	35.3	24.4	36.6

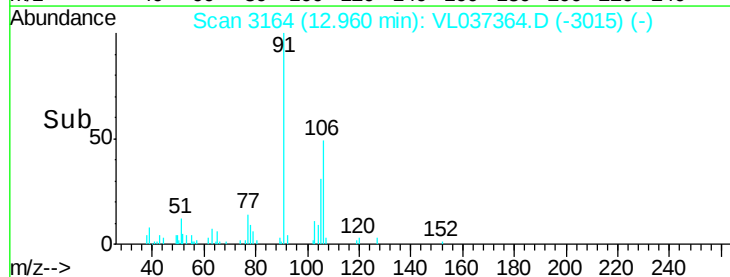
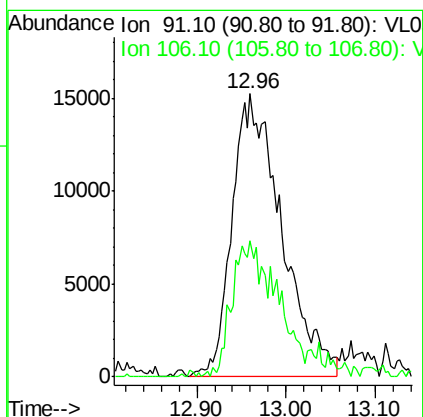
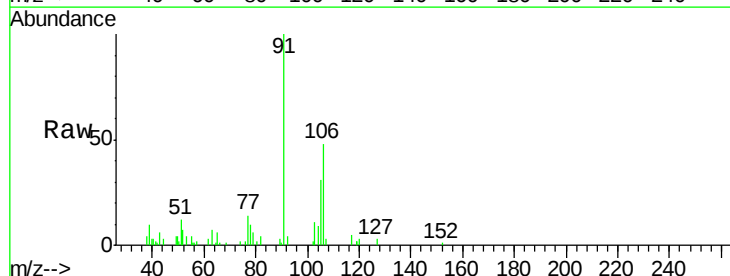
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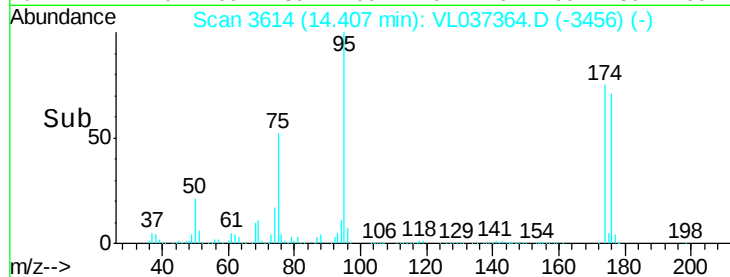
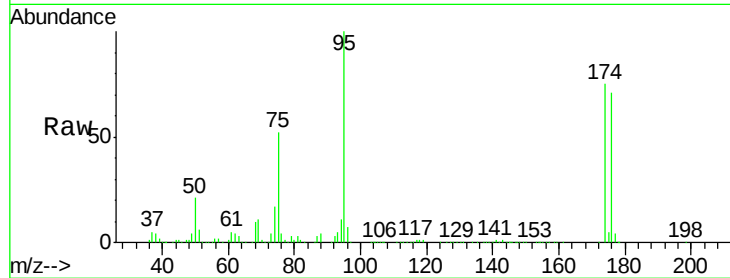
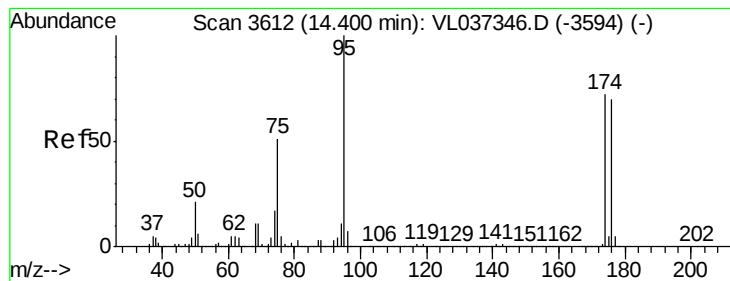
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#59
m/p-Xylene
Concen: 0.226 ppbv m
RT: 12.96 min Scan# 3164
Delta R.T. -0.02 min
Lab File: VL037364.D
Acq: 7 Aug 2021 4:38

Tgt Ion	Ratio	Lower	Upper
91	100		
106	0.0	37.0	55.6





#68

1-Bromo-4-Fluorobenzene

Concen: 9.648 ppbv

RT: 14.41 min Scan# 3614

Delta R.T. 0.01 min

Lab File: VL037364.D

Acq: 7 Aug 2021 4:38

Tot Ion: 95 Resp: 1548928

Ion Ratio Lower Upper

95 100

174 83.9 60.8 91.2

175 5.5 4.3 6.5

Instrument :

MSVOA_L

ClientSampleId :

DDC-2-EFFLUENT

Manual Integrations

APPROVED

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