

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081121\
 Data File : VL037399.D
 Acq On : 11 Aug 2021 21:16
 Operator : SY/AP
 Sample : M3157-09
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OFFSITE-DDC-INFLUENT

Manual Integrations
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apatel
 8/12/2021 10:17:19 AM

Quant Time: Aug 12 03:44:28 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081121AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug 11 2021
 QLast Update : Wed Aug 11 09:01:07 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1149271	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3631503	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3116586	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	2354519	10.13	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	39185m	0.189	ppbv	
3) Chlorodifluoromethane	2.98	51	287573m	1.346	ppbv	
4) Chloromethane	3.13	50	71698m	0.911	ppbv	
9) Propene	3.02	41	55731m	0.766	ppbv	
10) Heptane	8.11	43	21519	0.125	ppbv #	71
11) Trichlorofluoromethane	3.95	101	36675m	0.210	ppbv	
13) Ethanol	3.60	45	1365270	155.470	ppbv	96
15) Acetone	3.84	43	2841577	25.951	ppbv	92
17) tert-Butyl alcohol	4.30	59	22819m	0.233	ppbv	
19) Isopropyl Alcohol	3.97	45	301511m	4.783	ppbv	
20) Methylene Chloride	4.34	84	4705209	79.133	ppbv	93
26) Hexane	5.68	57	3513779	24.750	ppbv #	47
30) Cyclohexane	7.13	84	48429m	0.412	ppbv	
34) 2-Butanone	5.24	43	267228	1.937	ppbv	98
35) Carbon Tetrachloride	7.02	117	10975m	0.054	ppbv	
36) Benzene	6.89	78	84887	0.295	ppbv	95
38) Trichloroethene	7.83	130	8356m	0.068	ppbv	
44) 2,2,4-Trimethylpentane	7.86	57	224196	0.466	ppbv	90
50) 4-Methyl-2-Pentanone	8.74	43	280990m	1.559	ppbv	
51) 2-Hexanone	10.14	43	103449m	1.295	ppbv	
52) Tetrachloroethene	11.22	164	79630	0.678	ppbv	96
53) Toluene	9.80	91	1931441	5.779	ppbv	100
58) Ethyl Benzene	12.71	91	137426	0.330	ppbv	92
59) m/p-Xylene	12.96	91	431519m	1.205	ppbv	
60) o-Xylene	13.68	91	163355m	0.492	ppbv	
61) Styrene	13.52	104	35627m	0.207	ppbv	
73) 1,3,5-Trimethylbenzene	15.99	105	47361m	0.131	ppbv	
74) 1,2,4-Trimethylbenzene	16.75	105	145647m	0.398	ppbv	

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

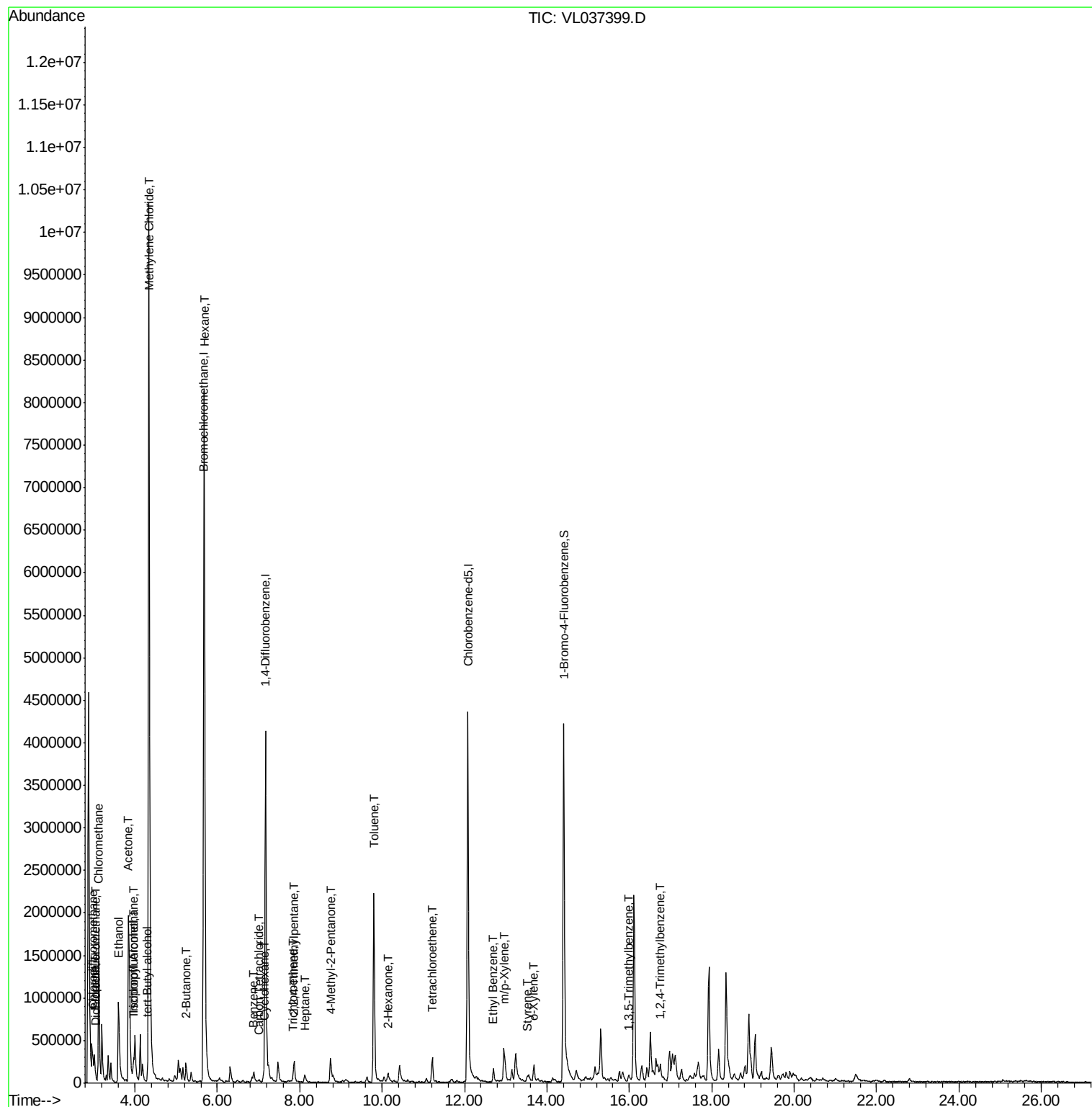
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081121\
Data File : VL037399.D
Acq On : 11 Aug 2021 21:16
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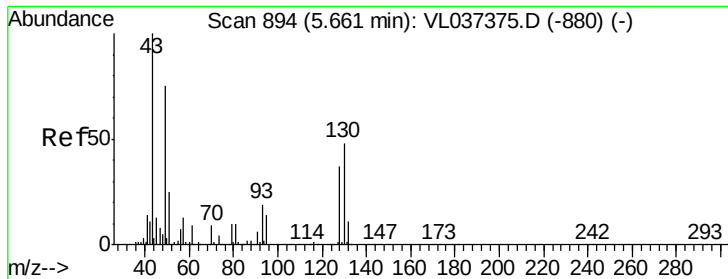
Instrument :
MSVOA_L
ClientSampleId :
OFFSITE-DDC-INFLUENT

Manual Integrations
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Quant Time: Aug 12 03:44:28 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081121AIR.M
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QLast Update : Wed Aug 11 09:01:07 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: VL037399.D

Acq: 11 Aug 2021 21:16

Instrument :

MSVOA_L

ClientSampleId :

OFFSITE-DDC-INFLUENT

Tot Ion: 49 Resp: 1149271

Ion Ratio Lower Upper

49 100

128 55.9 28.1 84.4

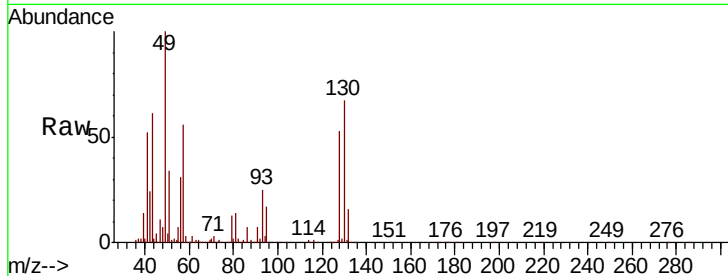
130 72.3 34.3 102.8

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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

5.66

600000

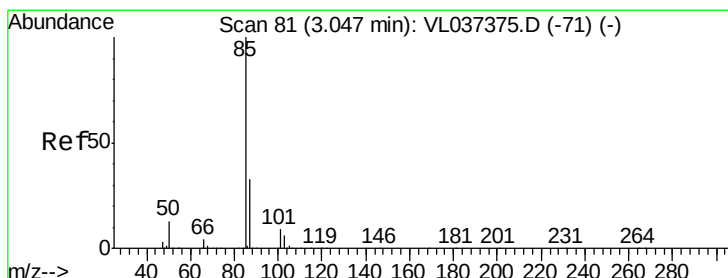
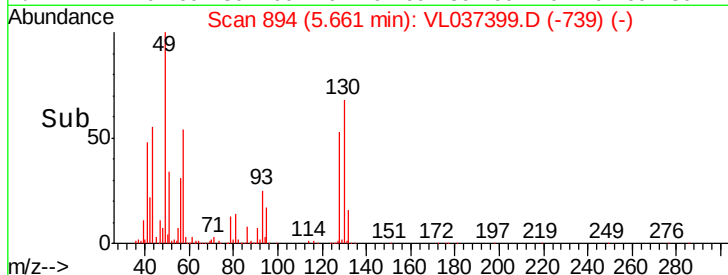
400000

200000

0

5.60 5.65 5.70

Time-->



#2

Dichlorodifluoromethane

Concen: 0.189 ppbv m

RT: 3.05 min Scan# 81

Delta R.T. -0.00 min

Lab File: VL037399.D

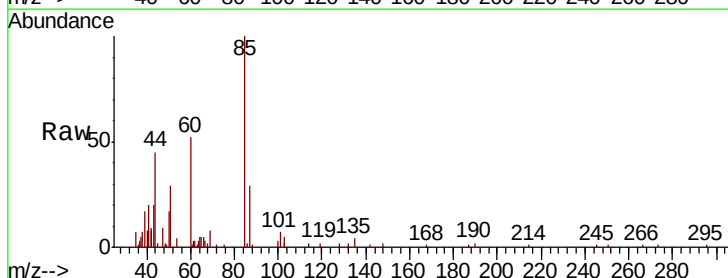
Acq: 11 Aug 2021 21:16

Tgt Ion: 85 Resp: 39185

Ion Ratio Lower Upper

85 100

87 28.9 26.6 39.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.05

80000

60000

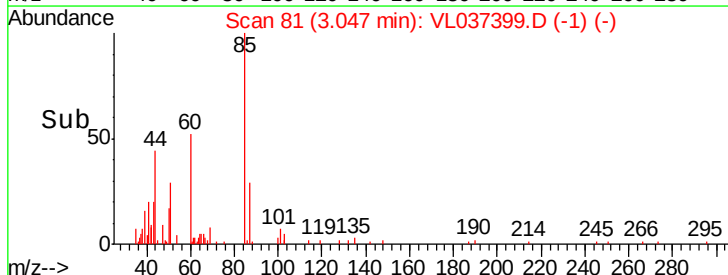
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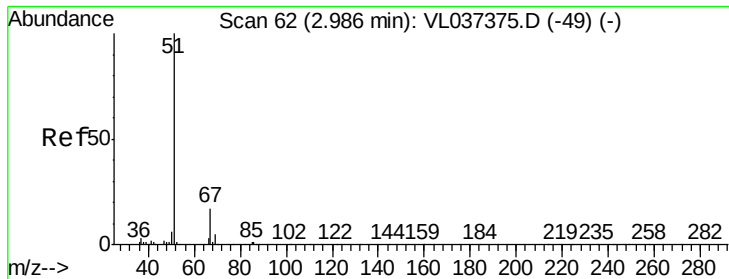
20000

0

3.00 3.05 3.10

Time-->





#3

Chlorodifluoromethane

Concen: 1.346 ppbv m

RT: 2.98 min Scan# 60

Delta R.T. -0.01 min

Lab File: VL037399.D

Acq: 11 Aug 2021 21:16

Instrument :

MSVOA_L

ClientSampleId :

OFFSITE-DDC-INFLUENT

Tot Ion: 51 Resp: 287573

Ion Ratio Lower Upper

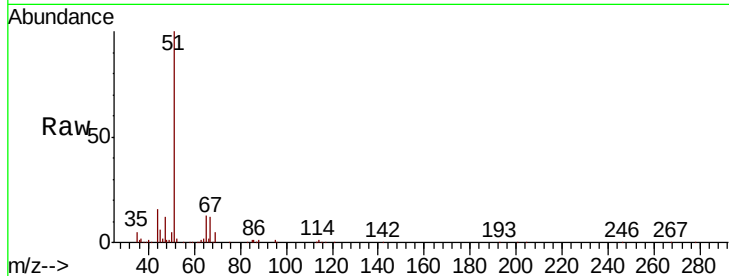
51 100

67 14.3 14.3 21.5

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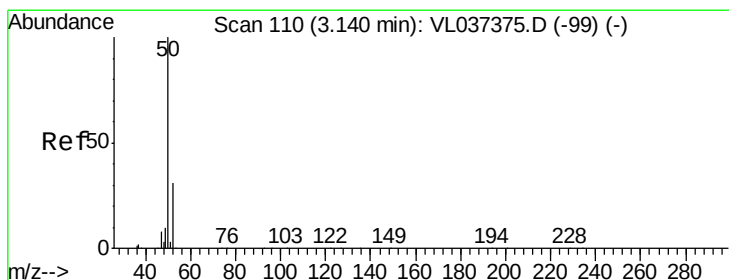
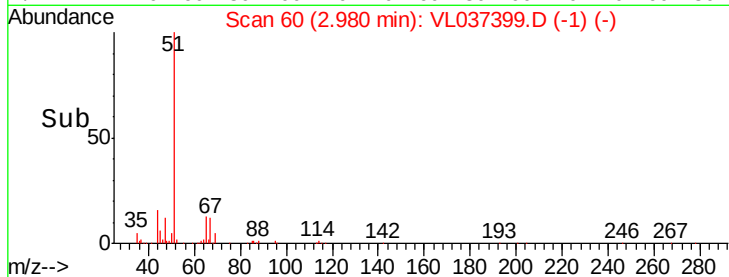
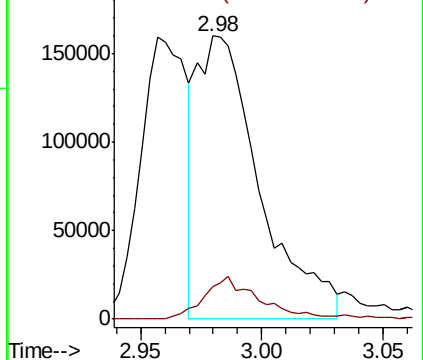
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.911 ppbv m

RT: 3.13 min Scan# 107

Delta R.T. -0.01 min

Lab File: VL037399.D

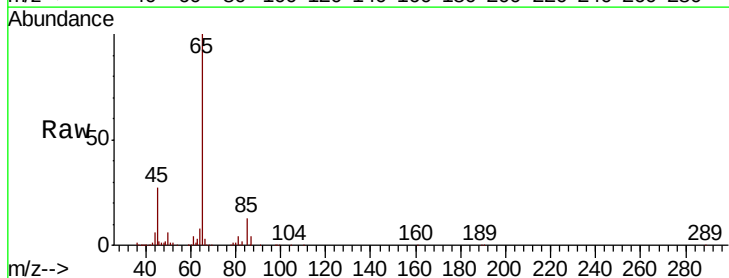
Acq: 11 Aug 2021 21:16

Tgt Ion: 50 Resp: 71698

Ion Ratio Lower Upper

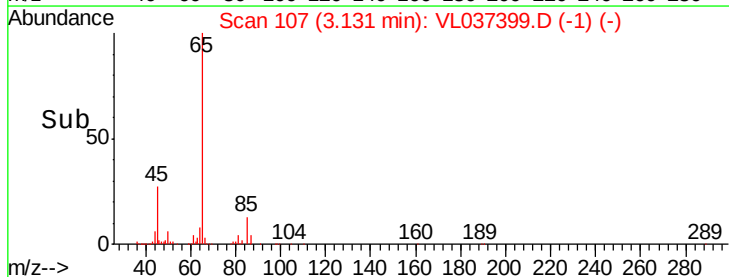
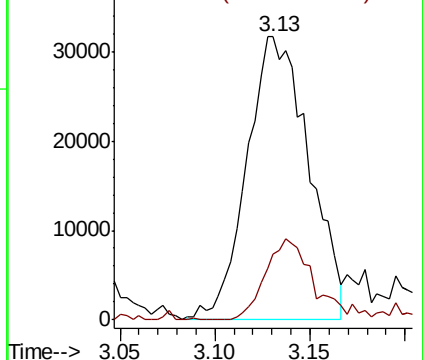
50 100

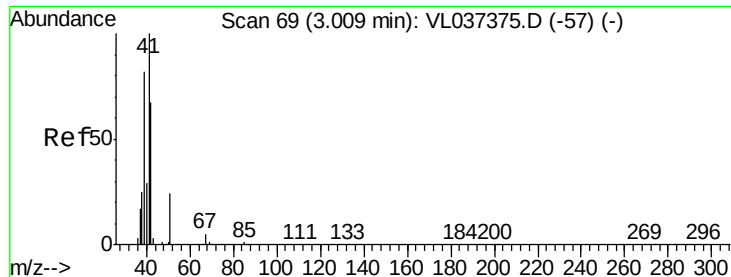
52 23.4 25.0 37.4#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.766 ppbv m

RT: 3.02 min Scan# 72

Delta R.T. 0.01 min

Lab File: VL037399.D

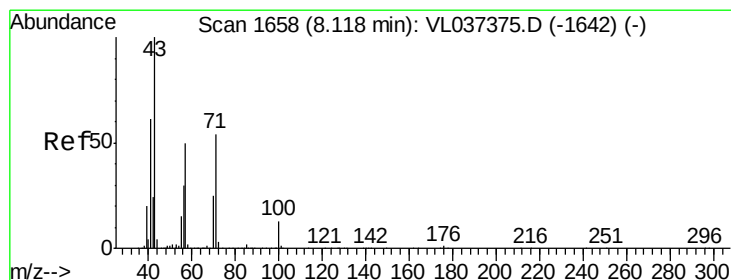
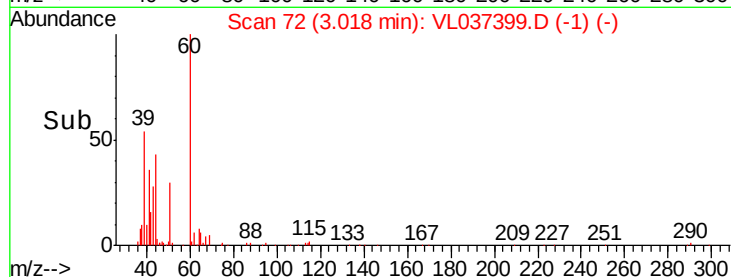
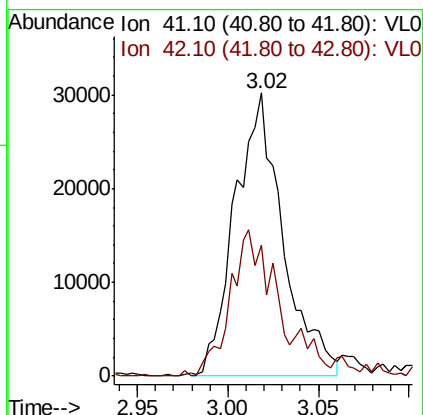
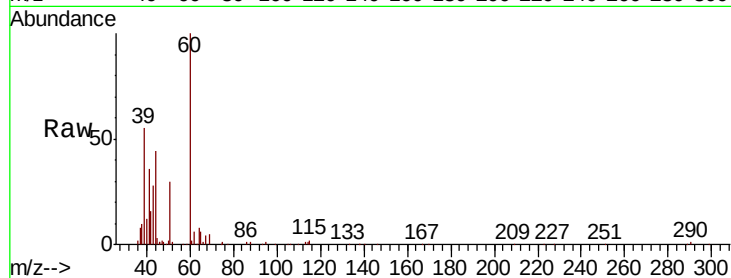
Acq: 11 Aug 2021 21:16

Instrument :
MSVOA_L
ClientSampleId :
OFFSITE-DDC-INFLUENT

Tot Ion	Ratio	Lower	Upper
41	100		
42	55.9	55.5	83.3

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#10

Heptane

Concen: 0.125 ppbv

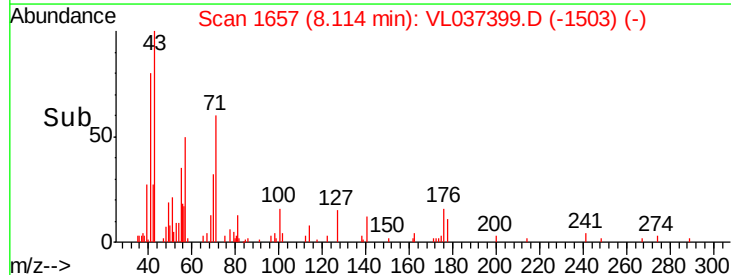
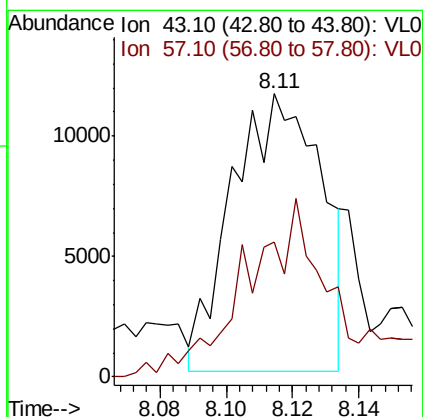
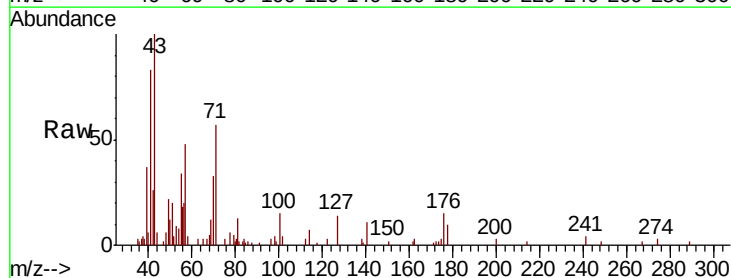
RT: 8.11 min Scan# 1657

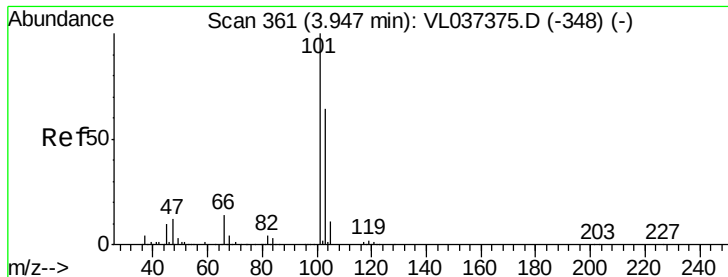
Delta R.T. -0.00 min

Lab File: VL037399.D

Acq: 11 Aug 2021 21:16

Tgt Ion	Ratio	Lower	Upper
43	100		
57	70.0	40.2	60.2





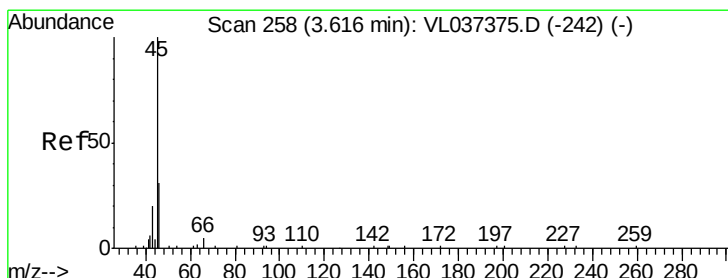
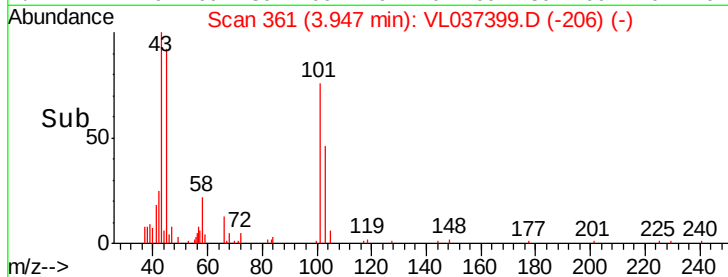
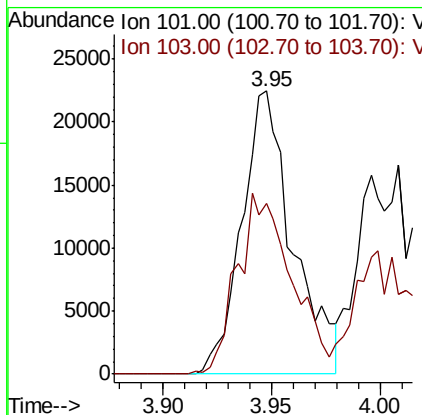
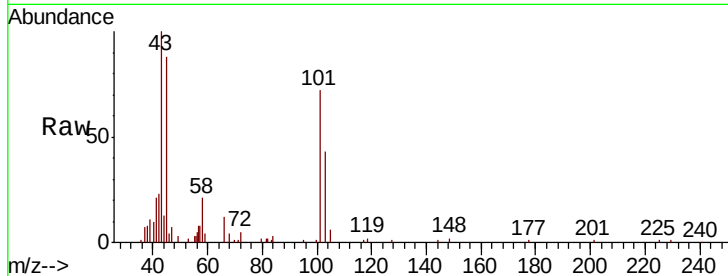
#11
 Trichlorofluoromethane
 Concen: 0.210 ppbv m
 RT: 3.95 min Scan# 361
 Delta R.T. -0.00 min
 Lab File: VL037399.D
 Acq: 11 Aug 2021 21:16

Instrument :
 MSVOA_L
 ClientSampleId :
 OFFSITE-DDC-INFLUENT

Tot Ion:101 Resp: 36675
 Ion Ratio Lower Upper
 101 100
 103 60.4 51.2 76.8

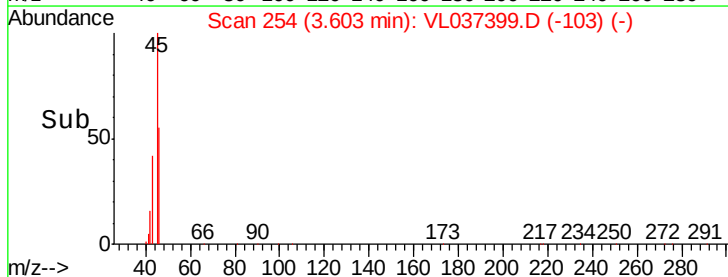
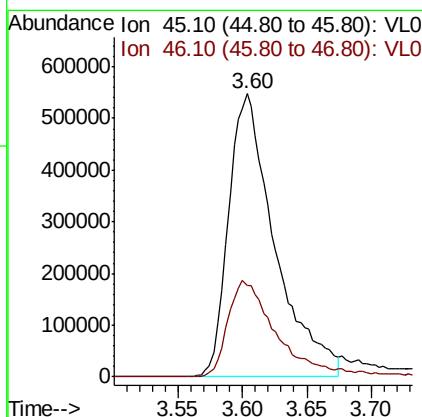
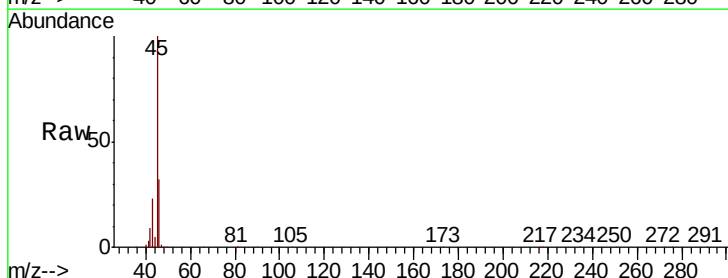
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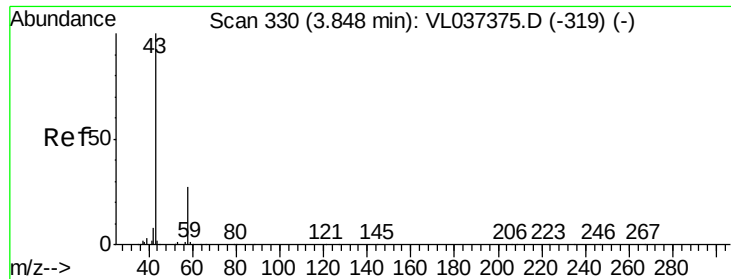
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#13
 Ethanol
 Concen: 155.470 ppbv
 RT: 3.60 min Scan# 254
 Delta R.T. -0.01 min
 Lab File: VL037399.D
 Acq: 11 Aug 2021 21:16

Tgt Ion: 45 Resp: 1365270
 Ion Ratio Lower Upper
 45 100
 46 37.4 15.8 63.4





#15

Acetone

Concen: 25.951 ppbv

RT: 3.84 min Scan# 328

Delta R.T. -0.01 min

Lab File: VL037399.D

Acq: 11 Aug 2021 21:16

Instrument :

MSVOA_L

ClientSampleId :

OFFSITE-DDC-INFLUENT

Tot Ion: 43 Resp: 2841577

Ion Ratio Lower Upper

43 100

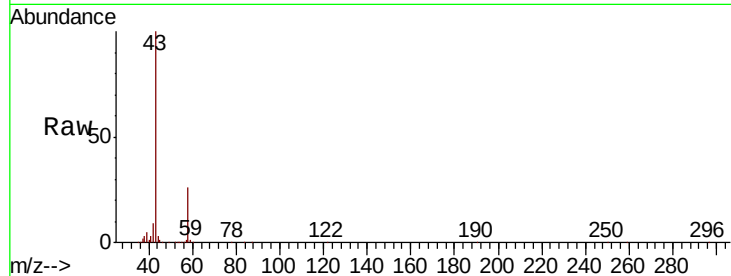
58 26.4 24.6 37.0

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

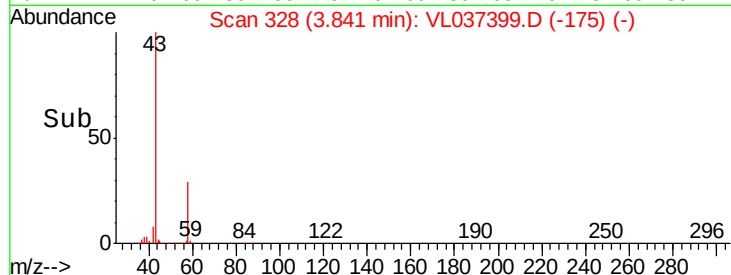
1500000

1000000

500000

0

Time-->

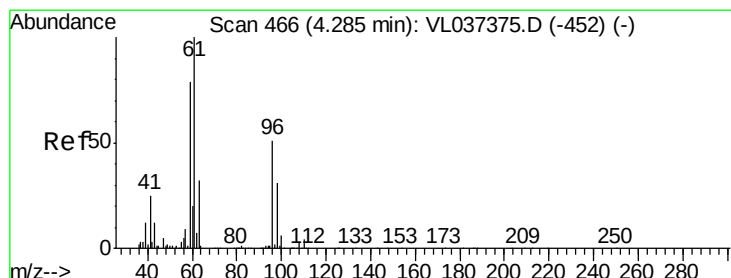


3.84

3.85

3.90

3.95



#17

tert-Butyl alcohol

Concen: 0.233 ppbv m

RT: 4.30 min Scan# 471

Delta R.T. 0.02 min

Lab File: VL037399.D

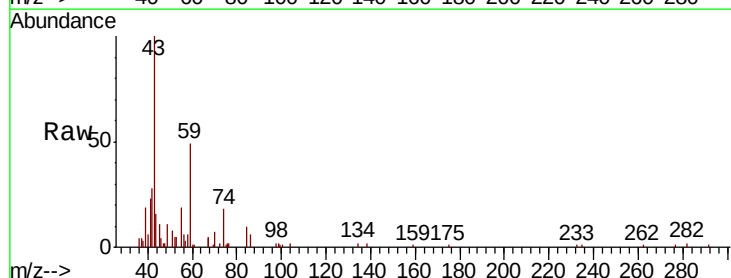
Acq: 11 Aug 2021 21:16

Tgt Ion: 59 Resp: 22819

Ion Ratio Lower Upper

59 100

57 0.0 8.6 13.0#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

10000

8000

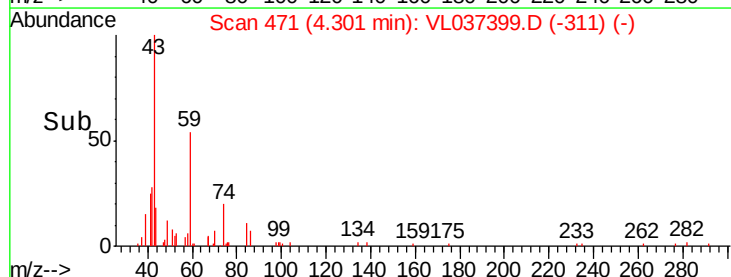
6000

4000

2000

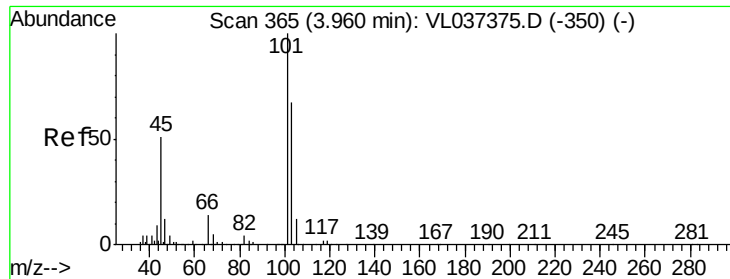
0

Time-->



4.30

4.35



#19

Isopropyl Alcohol

Concen: 4.783 ppbv m

RT: 3.97 min Scan# 369

Delta R.T. 0.01 min

Lab File: VL037399.D

Acq: 11 Aug 2021 21:16

Instrument :

MSVOA_L

ClientSampleId :

OFFSITE-DDC-INFLUENT

Tot Ion: 45 Resp: 301511

Ion Ratio Lower Upper

45 100

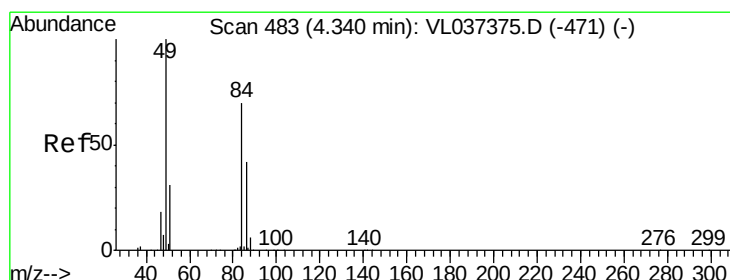
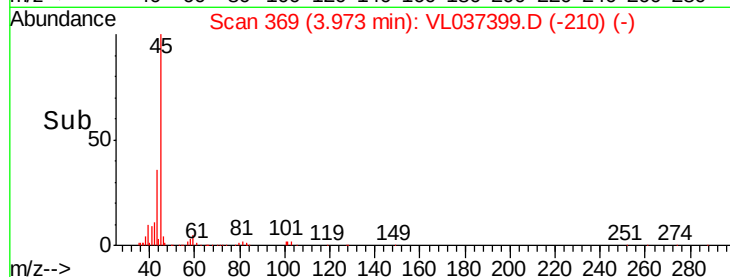
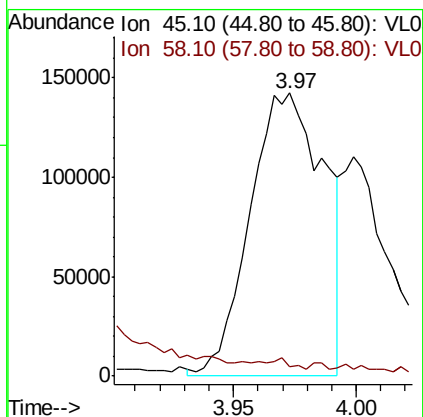
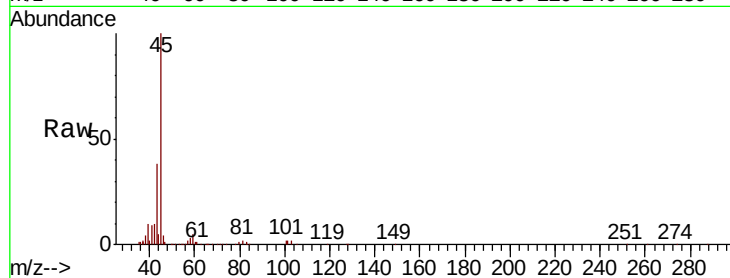
58 0.0 38.7 58.1#

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#20

Methylene Chloride

Concen: 79.133 ppbv

RT: 4.34 min Scan# 483

Delta R.T. -0.00 min

Lab File: VL037399.D

Acq: 11 Aug 2021 21:16

Tgt Ion: 84 Resp: 4705209

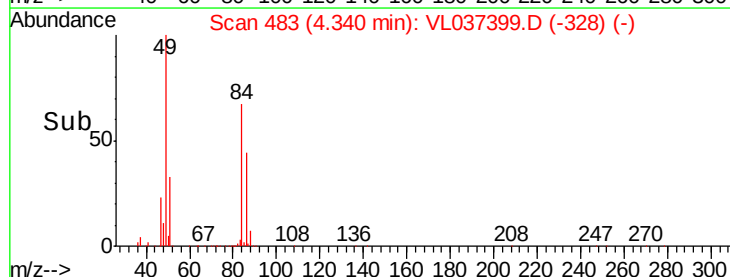
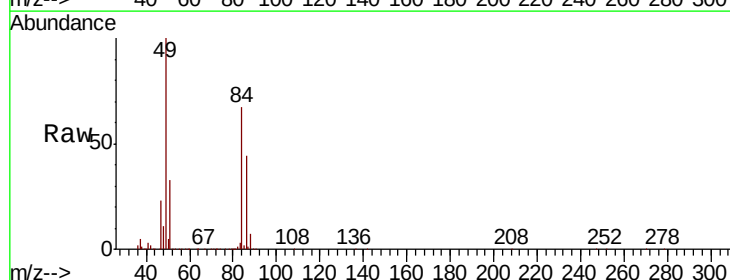
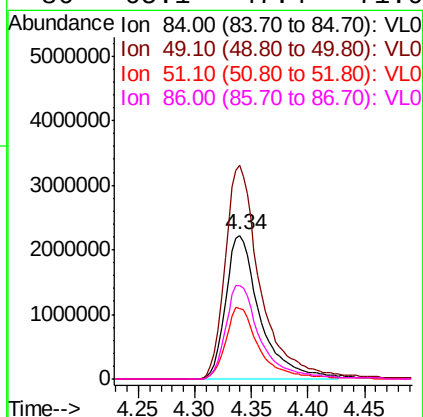
Ion Ratio Lower Upper

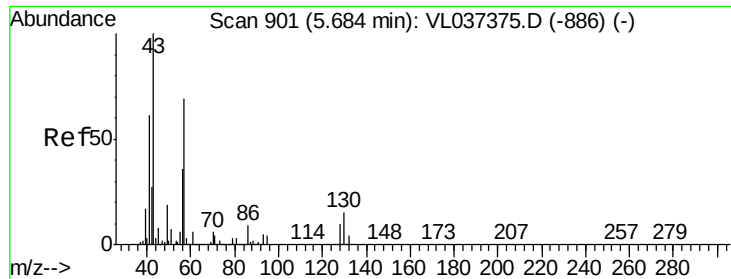
84 100

49 148.8 113.8 170.6

51 49.1 34.7 52.1

86 65.1 47.4 71.0





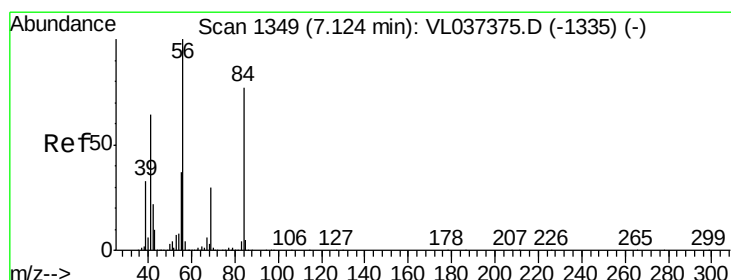
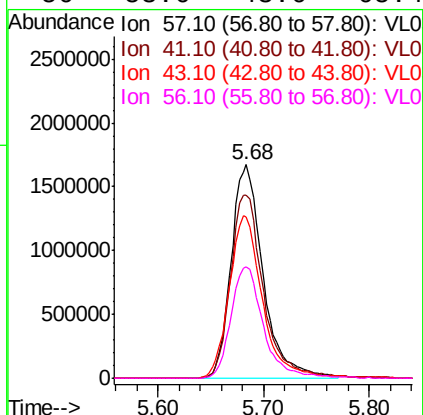
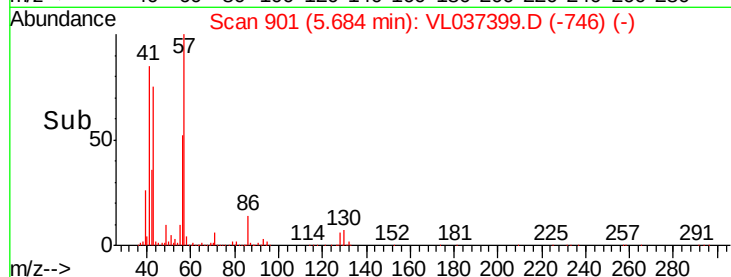
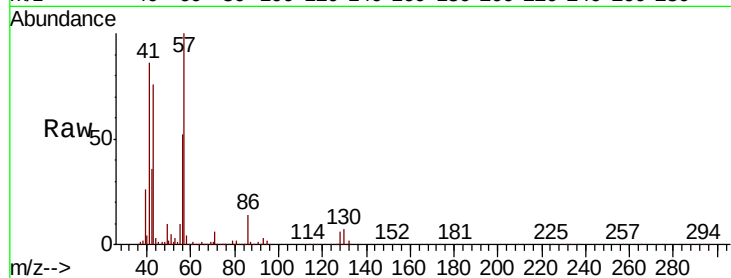
#26
Hexane
Concen: 24.750 ppbv
RT: 5.68 min Scan# 901
Delta R.T. -0.00 min
Lab File: VL037399.D
Acq: 11 Aug 2021 21:16

Instrument :
MSVOA_L
ClientSampleId :
OFFSITE-DDC-INFLUENT

Tot Ion	57	Resp	3513779
Ion	Ratio	Lower	Upper
57	100		
41	89.2	73.4	110.0
43	79.7	174.4	261.6#
56	53.6	43.6	65.4

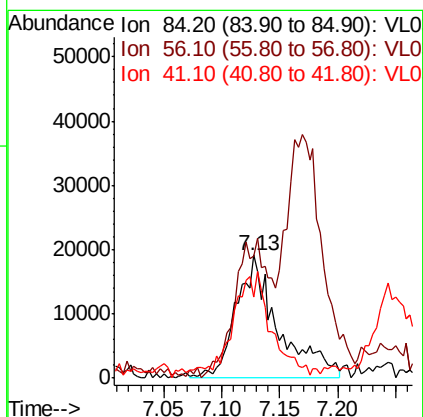
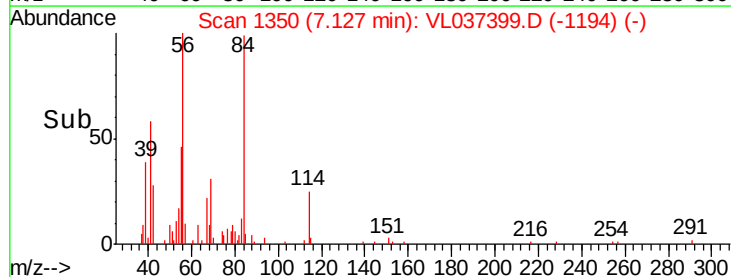
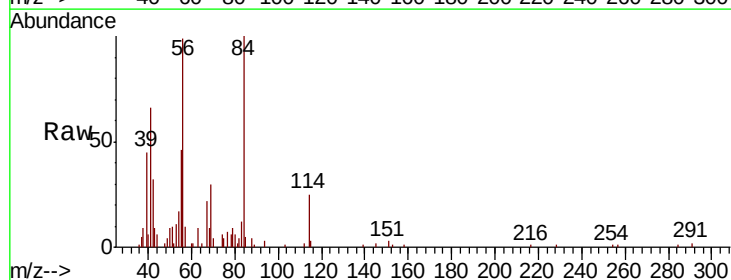
Manual Integrations
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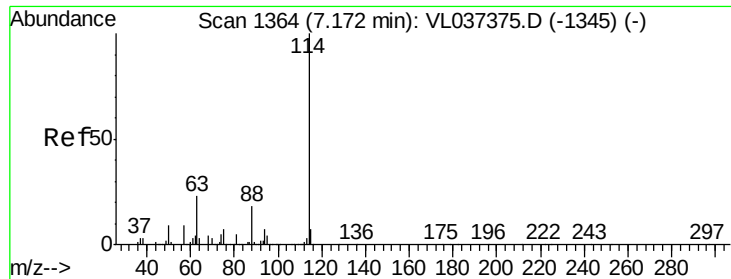
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#30
Cyclohexane
Concen: 0.412 ppbv m
RT: 7.13 min Scan# 1350
Delta R.T. 0.00 min
Lab File: VL037399.D
Acq: 11 Aug 2021 21:16

Tgt Ion	84	Resp	48429
Ion	Ratio	Lower	Upper
84	100		
56	0.0	109.4	164.0#
41	0.0	66.2	99.2#





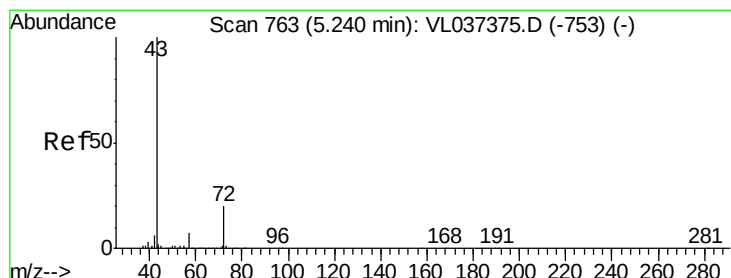
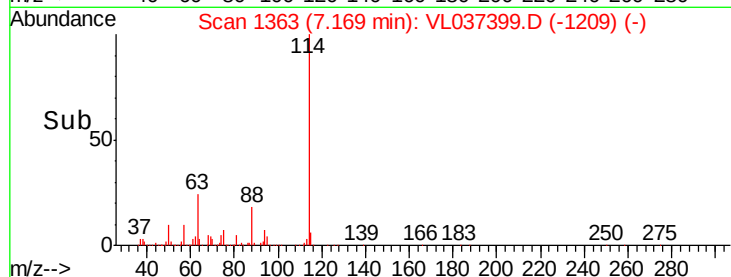
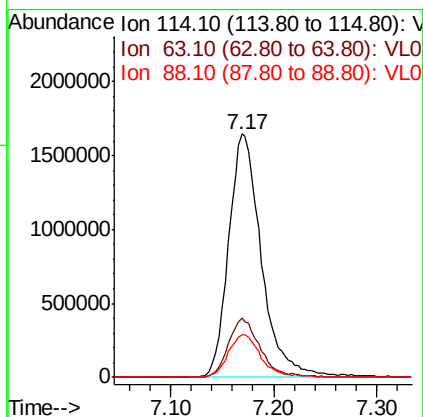
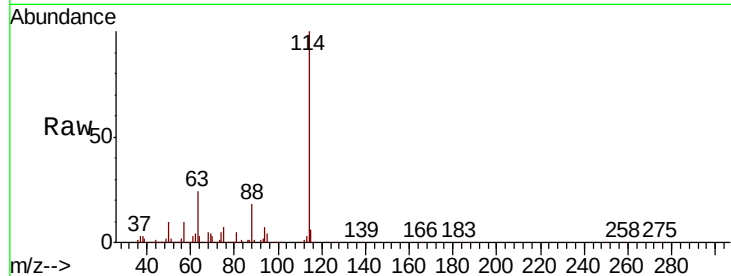
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1363
 Delta R.T. -0.00 min
 Lab File: VL037399.D
 Acq: 11 Aug 2021 21:16

Instrument :
 MSVOA_L
 ClientSampleId :
 OFFSITE-DDC-INFLUENT

Tot Ion	Ratio	Lower	Upper
114	100		
63	24.1	19.5	29.3
88	17.8	14.3	21.5

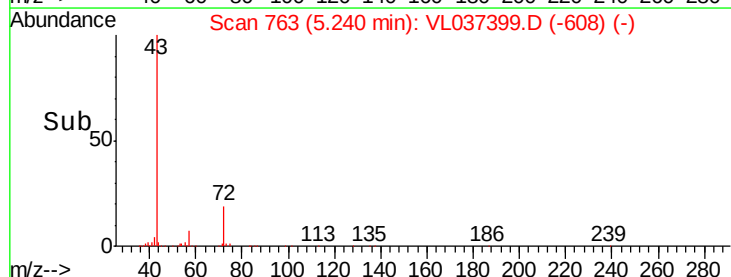
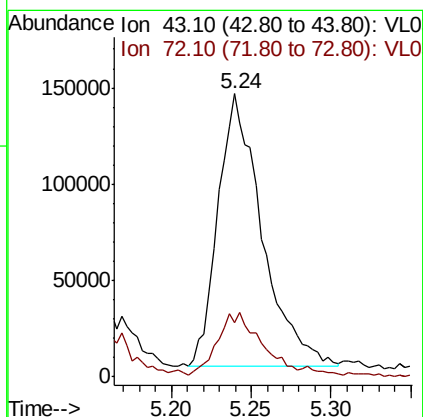
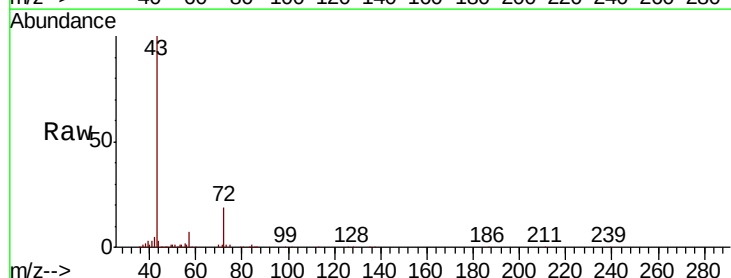
Manual Integrations
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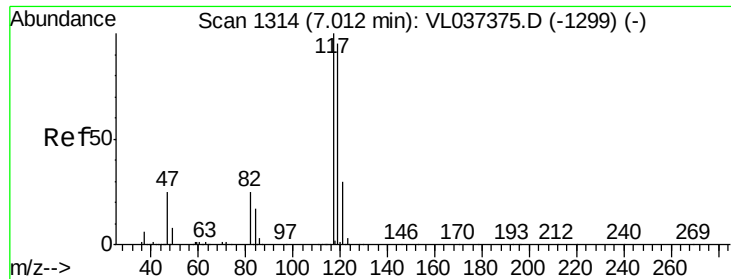
apatel
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#34
 2-Butanone
 Concen: 1.937 ppbv
 RT: 5.24 min Scan# 763
 Delta R.T. -0.00 min
 Lab File: VL037399.D
 Acq: 11 Aug 2021 21:16

Tgt Ion	Ratio	Lower	Upper
43	100		
72	25.4	19.6	29.4





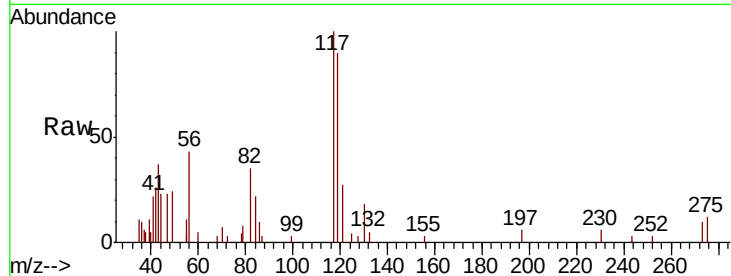
#35
Carbon Tetrachloride
Concen: 0.054 ppbv
RT: 7.02 min Scan# 1316
Delta R.T. 0.01 min
Lab File: VL037399.D
Acq: 11 Aug 2021 21:16

Instrument :
MSVOA_L
ClientSampleId :
OFFSITE-DDC-INFLUENT

Tot Ion	Ratio	Lower	Upper
117	100		
119	90.2	76.1	114.1
121	27.4	24.4	36.6

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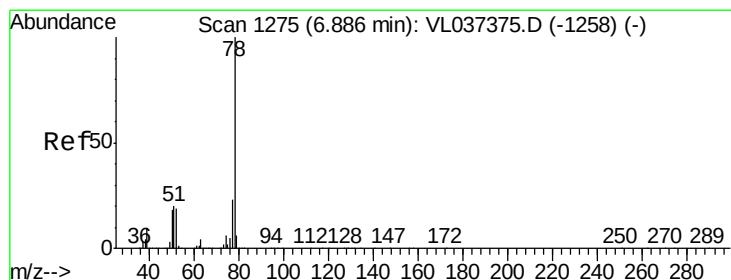
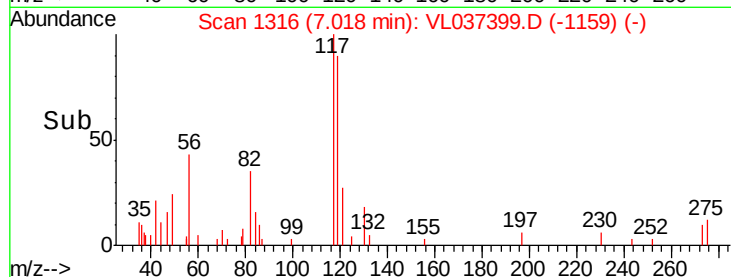
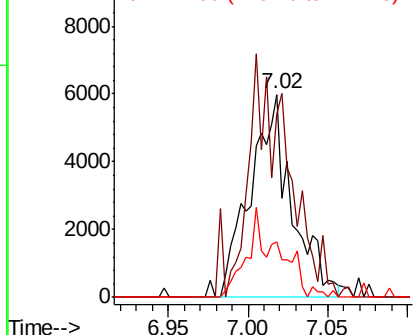


Abundance

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: 0.295 ppbv
RT: 6.89 min Scan# 1276
Delta R.T. 0.00 min
Lab File: VL037399.D
Acq: 11 Aug 2021 21:16

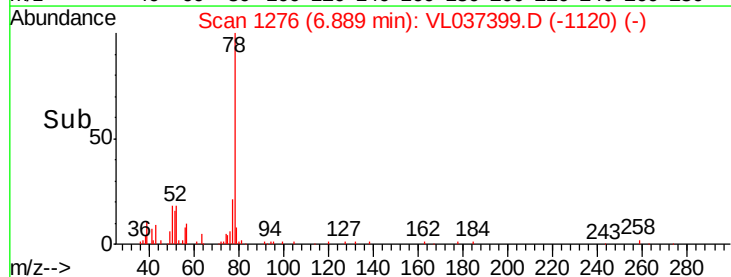
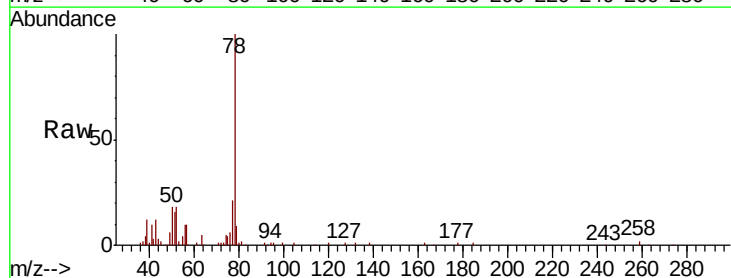
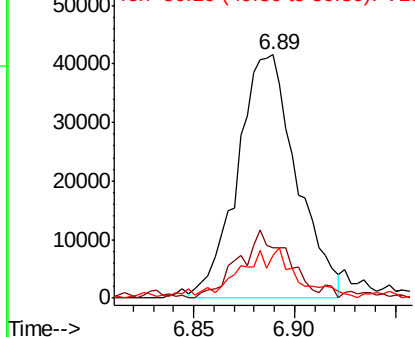
Tgt Ion	Ratio	Lower	Upper
78	100		
77	21.0	18.6	28.0
50	15.1	14.3	21.5

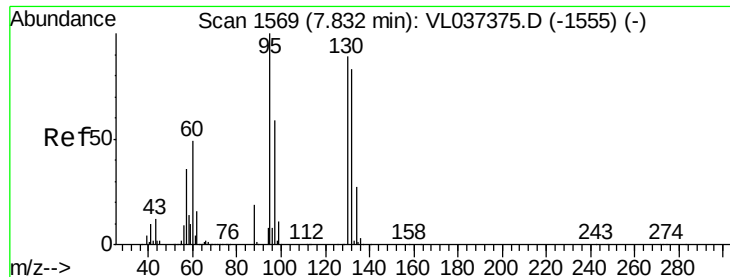
Abundance

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





#38

Trichloroethene

Concen: 0.068 ppbv m

RT: 7.83 min Scan# 1567

Delta R.T. -0.01 min

Lab File: VL037399.D

Acq: 11 Aug 2021 21:16

Instrument :

MSVOA_L

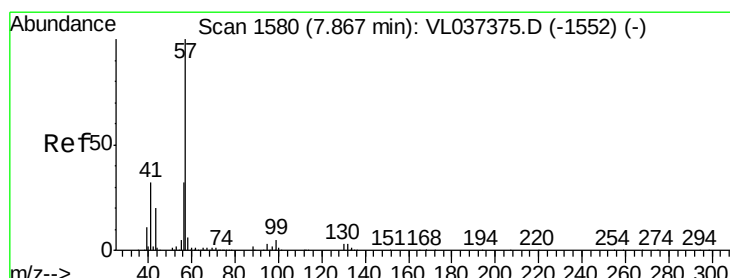
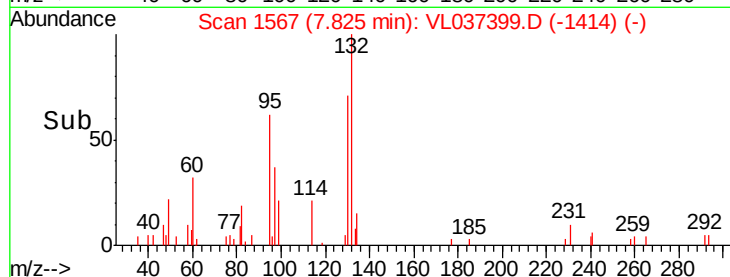
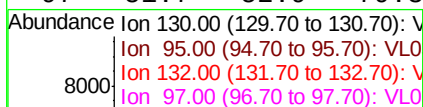
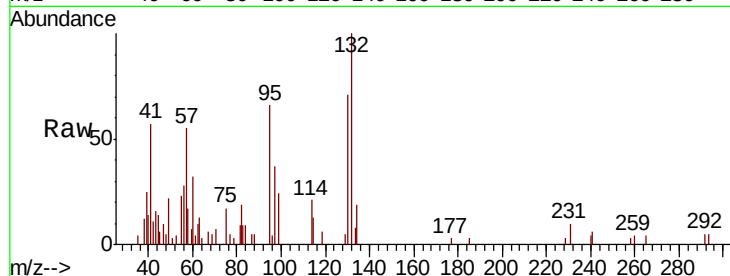
ClientSampleId :

OFFSITE-DDC-INFLUENT

Tot Ion:	130	Resp:	8356
Ion Ratio	Lower	Upper	
130	100		
95	93.7	89.5	134.3
132	141.4	74.2	111.4#
97	51.7	52.9	79.3#

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#44

2,2,4-Trimethylpentane

Concen: 0.466 ppbv

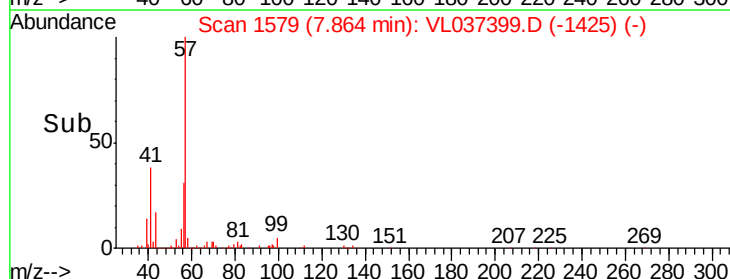
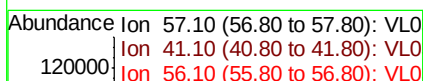
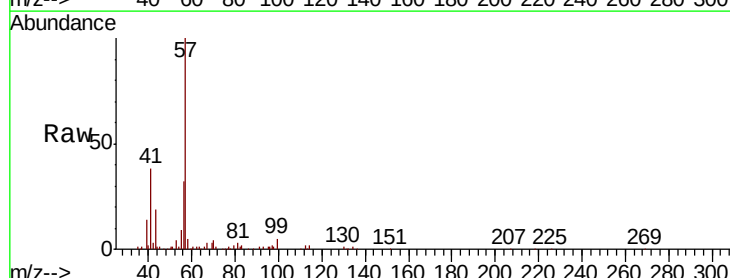
RT: 7.86 min Scan# 1579

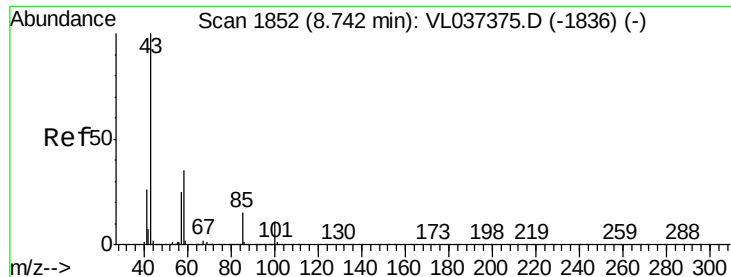
Delta R.T. -0.00 min

Lab File: VL037399.D

Acq: 11 Aug 2021 21:16

Tgt Ion:	57	Resp:	224196
Ion Ratio	Lower	Upper	
57	100		
41	38.5	26.1	39.1
56	36.7	25.1	37.7





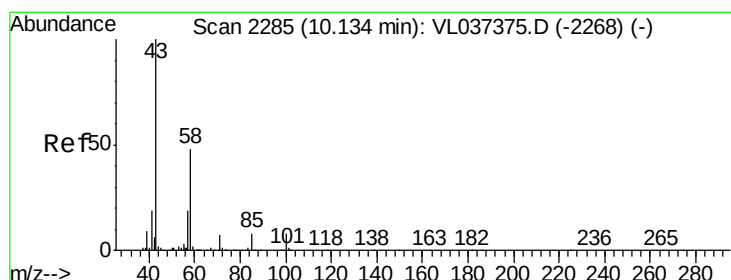
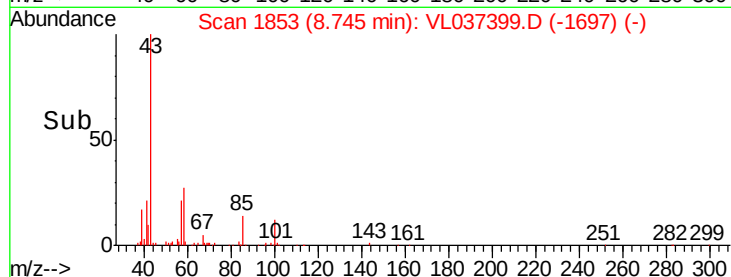
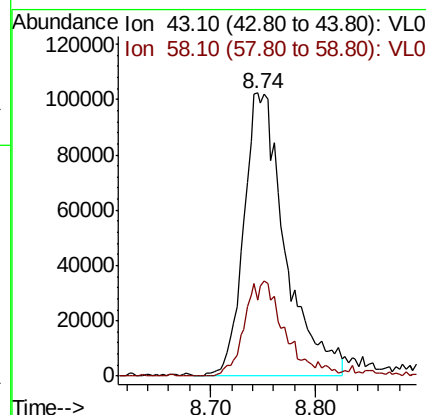
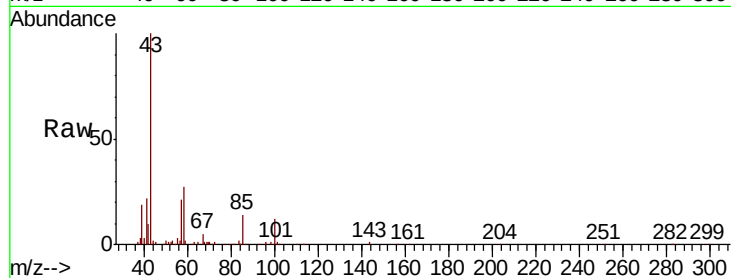
#50
4-Methyl-2-Pentanone
Concen: 1.559 ppbv m
RT: 8.74 min Scan# 1853
Delta R.T. 0.00 min
Lab File: VL037399.D
Acq: 11 Aug 2021 21:16

Instrument :
MSVOA_L
ClientSampleId :
OFFSITE-DDC-INFLUENT

Tot Ion	Ratio	Lower	Upper
43	100		
58	0.0	29.4	44.2#

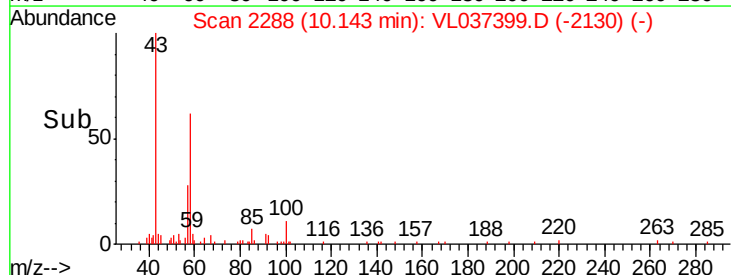
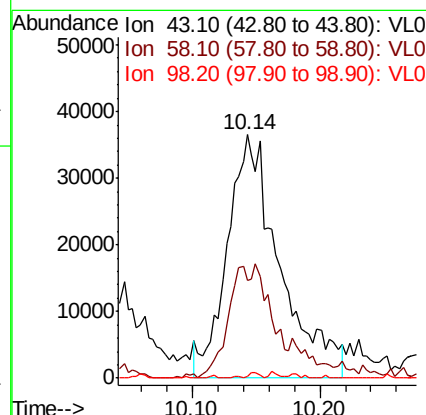
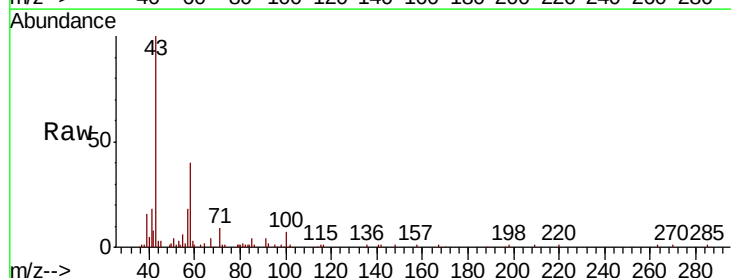
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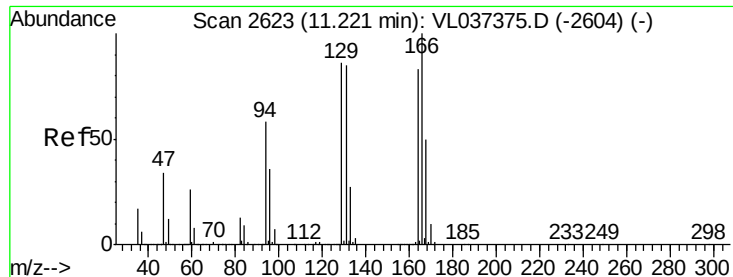
apatel
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#51
2-Hexanone
Concen: 1.295 ppbv m
RT: 10.14 min Scan# 2288
Delta R.T. 0.01 min
Lab File: VL037399.D
Acq: 11 Aug 2021 21:16

Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	41.8	62.8#
98	0.0	0.2	0.4#





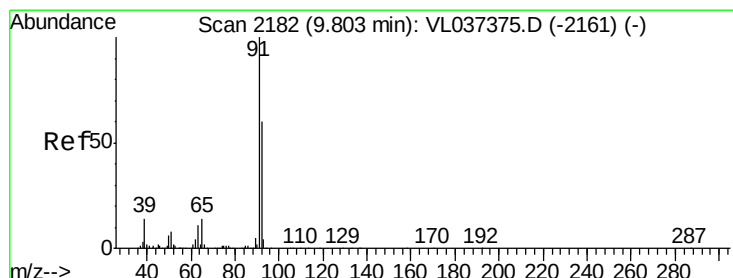
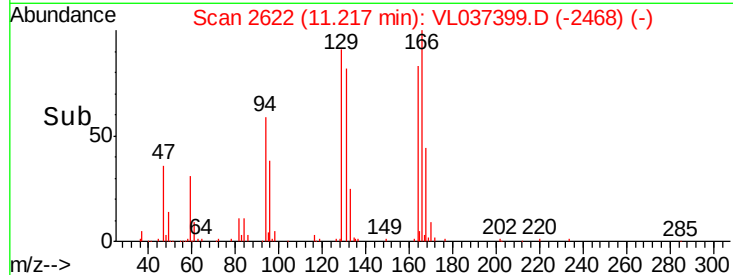
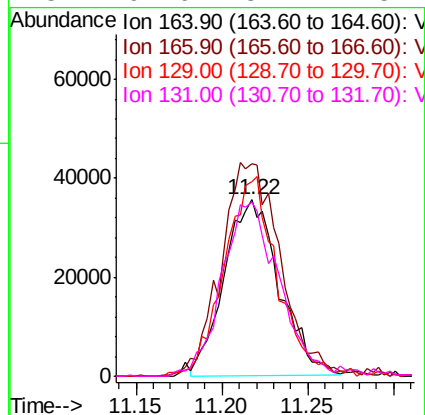
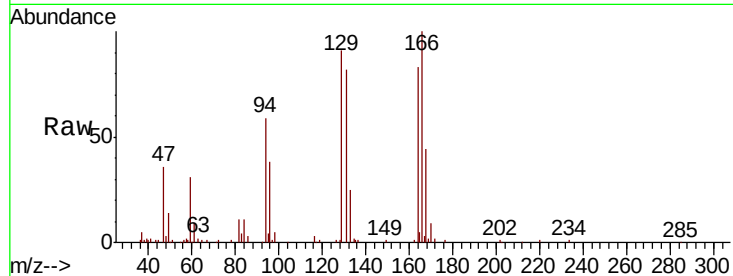
#52
Tetrachloroethene
Concen: 0.678 ppbv
RT: 11.22 min Scan# 2622
Delta R.T. -0.00 min
Lab File: VL037399.D
Acq: 11 Aug 2021 21:16

Instrument :
MSVOA_L
ClientSampleId :
OFFSITE-DDC-INFLUENT

Tot Ion:	164	Resp:	79630
Ion	Ratio	Lower	Upper
164	100		
166	119.2	96.5	144.7
129	108.8	83.2	124.8
131	94.6	82.2	123.2

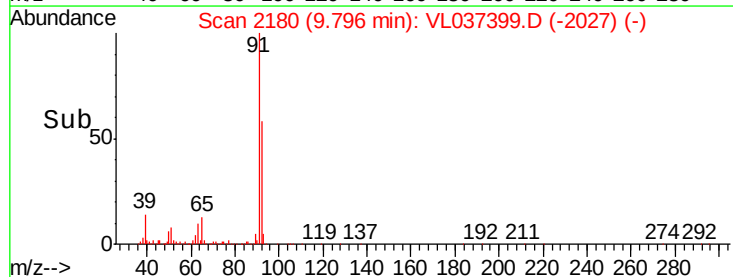
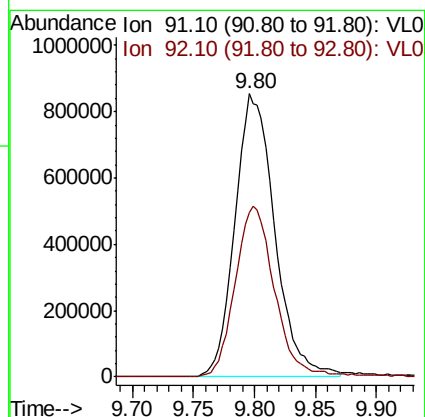
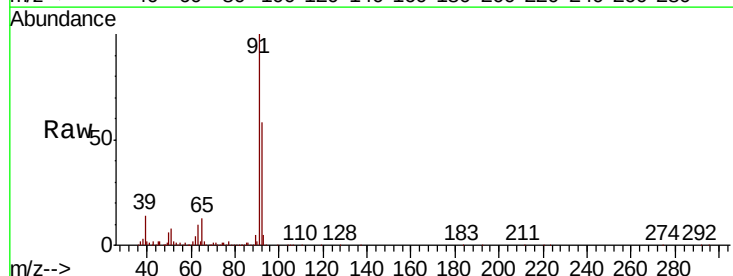
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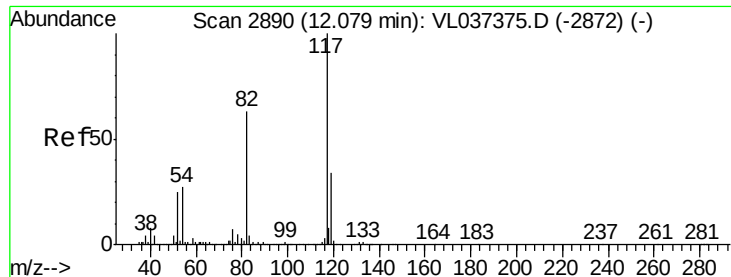
apatel
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#53
Toluene
Concen: 5.779 ppbv
RT: 9.80 min Scan# 2180
Delta R.T. -0.01 min
Lab File: VL037399.D
Acq: 11 Aug 2021 21:16

Tgt Ion:	91	Resp:	1931441
Ion	Ratio	Lower	Upper
91	100		
92	60.0	48.1	72.1





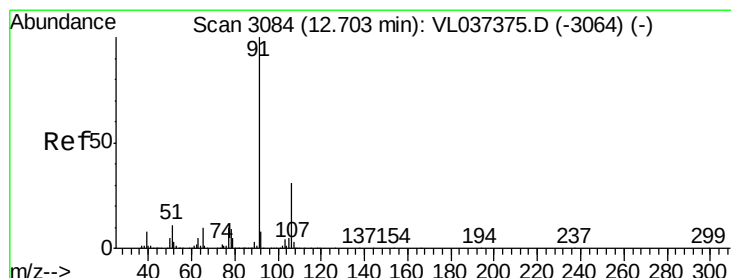
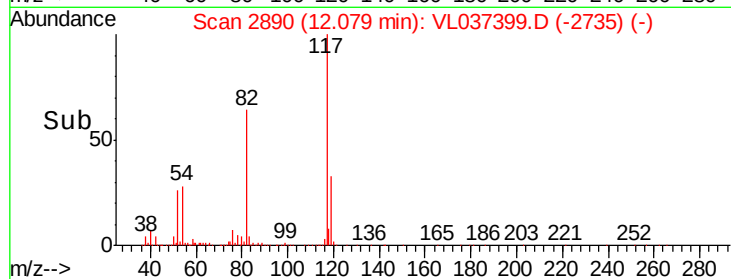
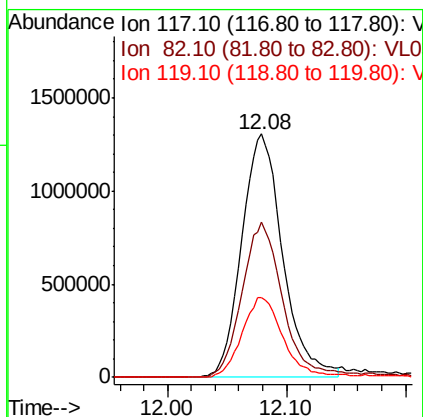
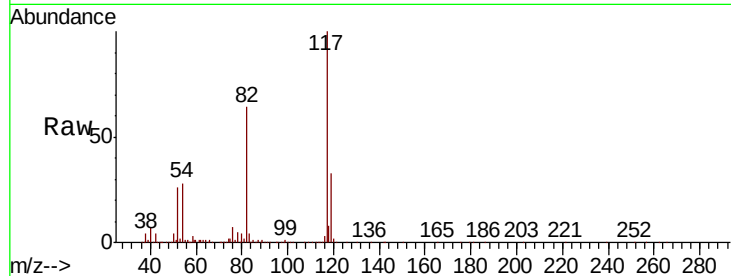
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min Scan# 2890
Delta R.T. -0.00 min
Lab File: VL037399.D
Acq: 11 Aug 2021 21:16

Instrument :
MSVOA_L
ClientSampleId :
OFFSITE-DDC-INFLUENT

Tot Ion	Ratio	Lower	Upper
117	100		
82	65.7	52.6	78.8
119	33.3	46.7	70.1#

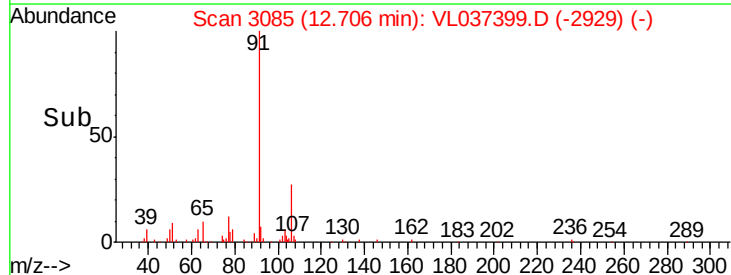
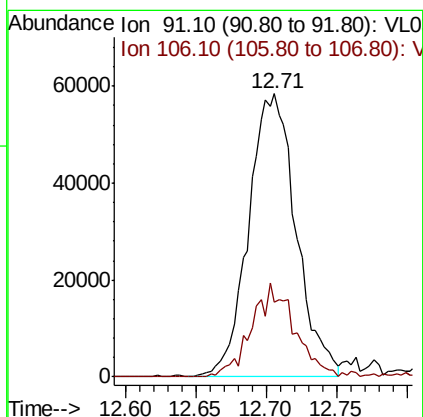
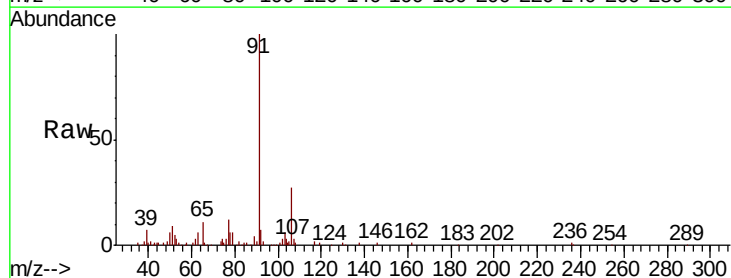
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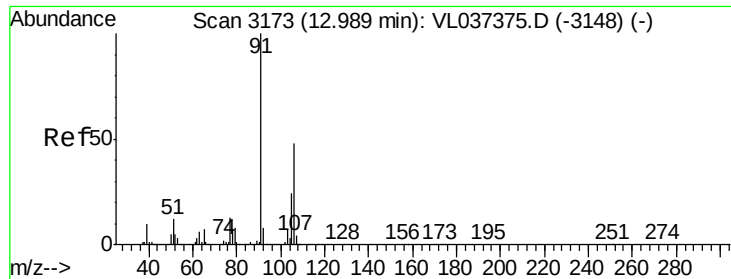
apatel
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#58
Ethyl Benzene
Concen: 0.330 ppbv
RT: 12.71 min Scan# 3085
Delta R.T. 0.00 min
Lab File: VL037399.D
Acq: 11 Aug 2021 21:16

Tgt Ion	Ratio	Lower	Upper
91	100		
106	26.5	24.6	36.8





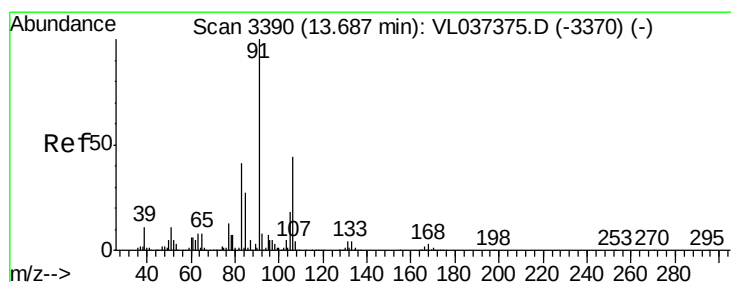
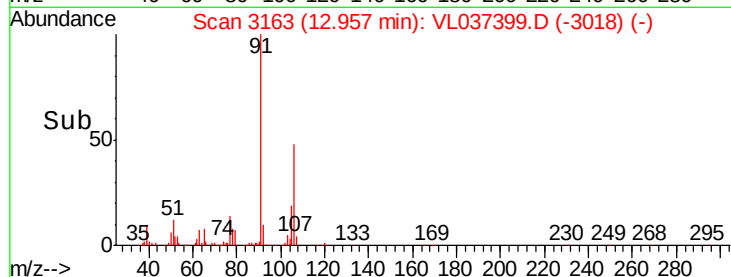
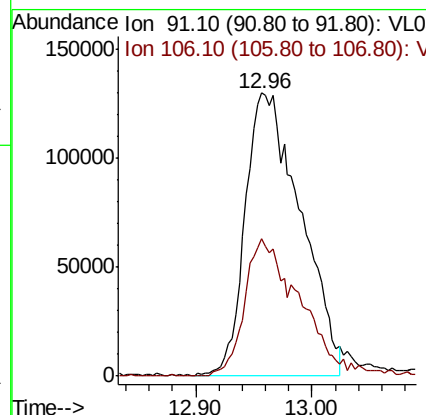
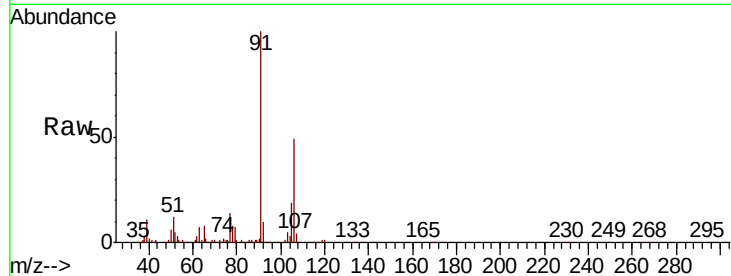
#59
m/p-Xylene
Concen: 1.205 ppbv m
RT: 12.96 min Scan# 3163
Delta R.T. -0.03 min
Lab File: VL037399.D
Acq: 11 Aug 2021 21:16

Instrument :
MSVOA_L
ClientSampleId :
OFFSITE-DDC-INFLUENT

Tot Ion: 91 Resp: 431519
Ion Ratio Lower Upper
91 100
106 0.0 36.6 55.0#

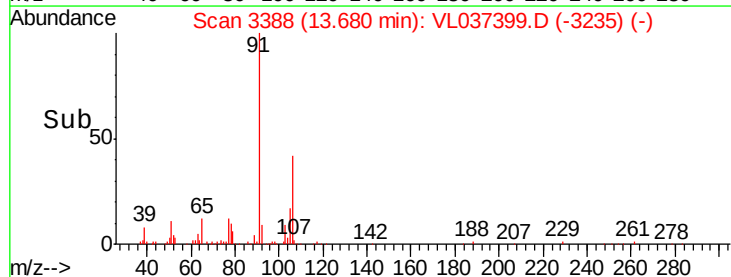
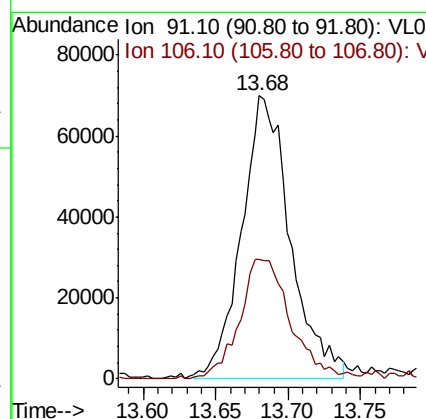
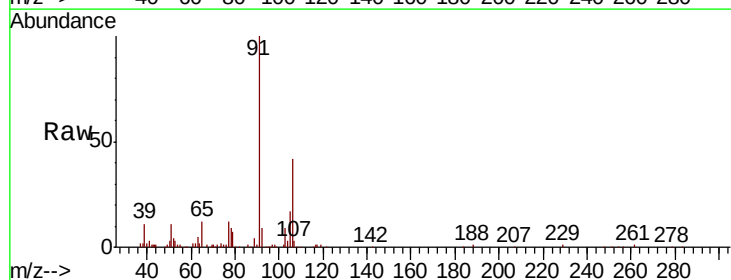
Manual Integrations
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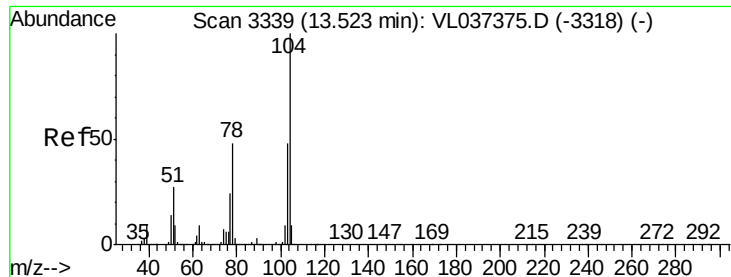
apatel
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#60
o-Xylene
Concen: 0.492 ppbv m
RT: 13.68 min Scan# 3388
Delta R.T. -0.01 min
Lab File: VL037399.D
Acq: 11 Aug 2021 21:16

Tgt Ion: 91 Resp: 163355
Ion Ratio Lower Upper
91 100
106 44.3 23.2 69.6





#61

Stvrene

Concen: 0.207 ppbv m

RT: 13.52 min Scan# 3338

Delta R.T. -0.00 min

Lab File: VL037399.D

Acq: 11 Aug 2021 21:16

Instrument :

MSVOA_L

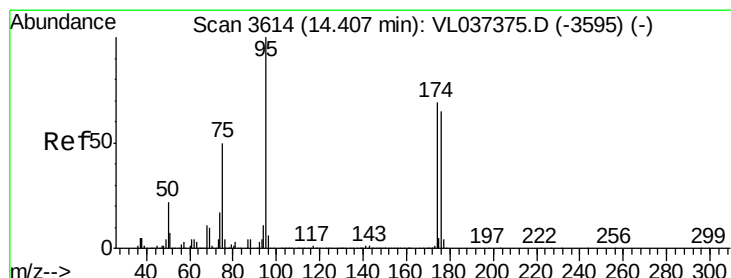
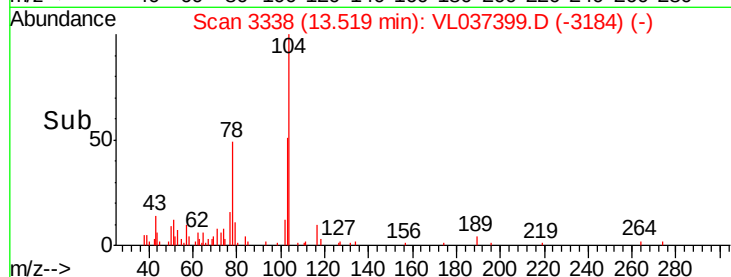
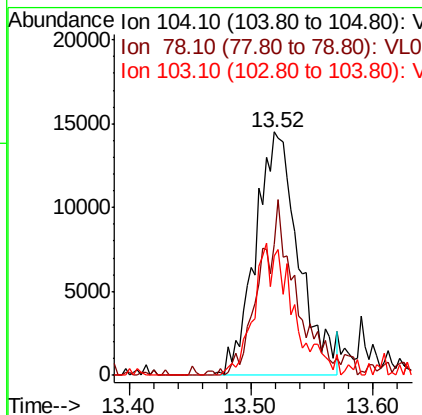
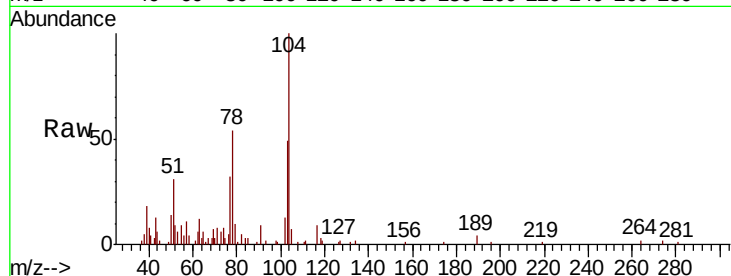
ClientSampleId :

OFFSITE-DDC-INFLUENT

Tot Ion:	104	Resp:	35627
Ion Ratio	Lower	Upper	
104	100		
78	62.7	41.4	62.0#
103	50.4	40.6	61.0

Manual Integrations
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#68

1-Bromo-4-Fluorobenzene

Concen: 10.130 ppbv

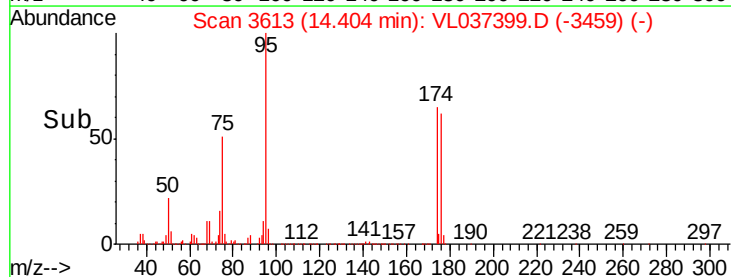
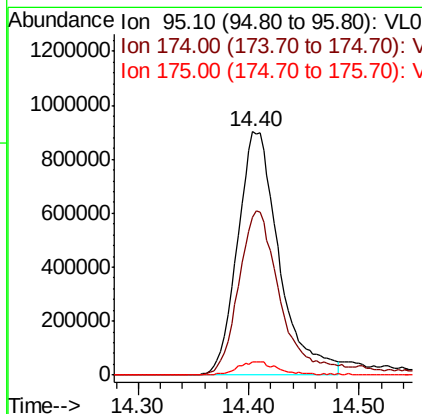
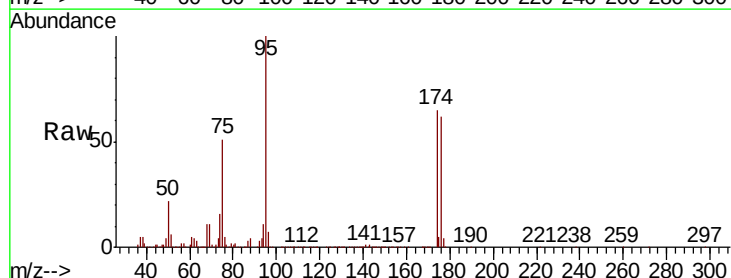
RT: 14.40 min Scan# 3613

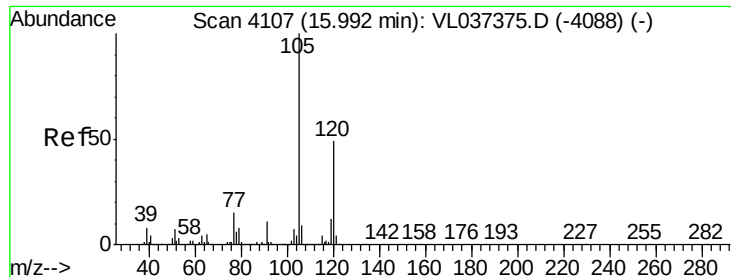
Delta R.T. -0.00 min

Lab File: VL037399.D

Acq: 11 Aug 2021 21:16

Tgt Ion:	95	Resp:	2354519
Ion Ratio	Lower	Upper	
95	100		
174	72.5	58.3	87.5
175	5.5	4.3	6.5





#73

1,3,5-Trimethylbenzene

Concen: 0.131 ppbv m

RT: 15.99 min Scan# 4106

Delta R.T. -0.00 min

Lab File: VL037399.D

Acq: 11 Aug 2021 21:16

Instrument :

MSVOA_L

ClientSampleId :

OFFSITE-DDC-INFLUENT

Tot Ion:105 Resp: 47361

Ion Ratio Lower Upper

105 100

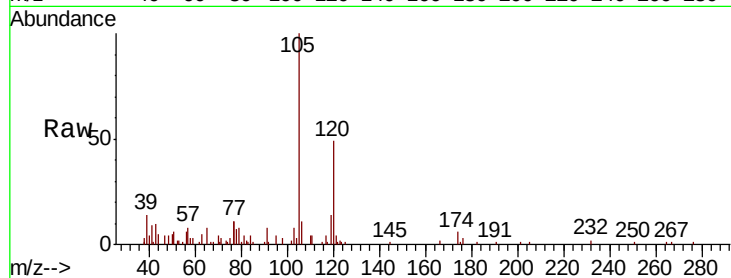
120 49.2 38.9 58.3

Manual Integrations

APPROVED

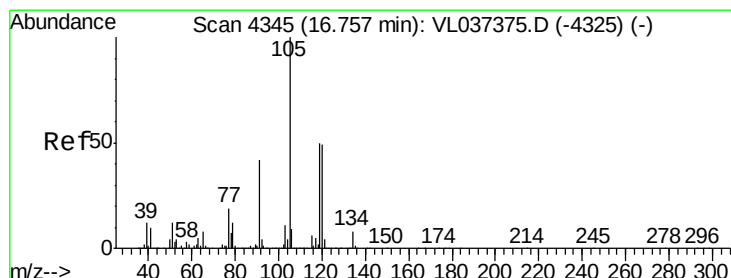
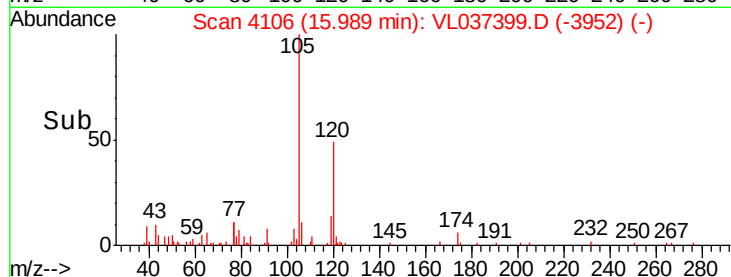
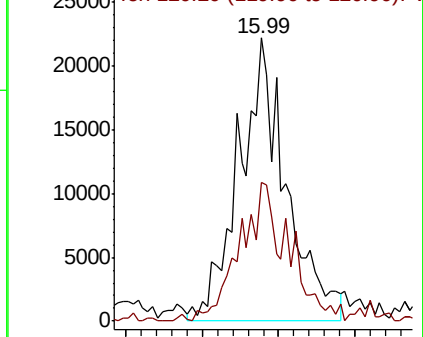
apatel

8/12/2021 10:17:19 AM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 0.398 ppbv m

RT: 16.75 min Scan# 4343

Delta R.T. -0.01 min

Lab File: VL037399.D

Acq: 11 Aug 2021 21:16

Tgt Ion:105 Resp: 145647

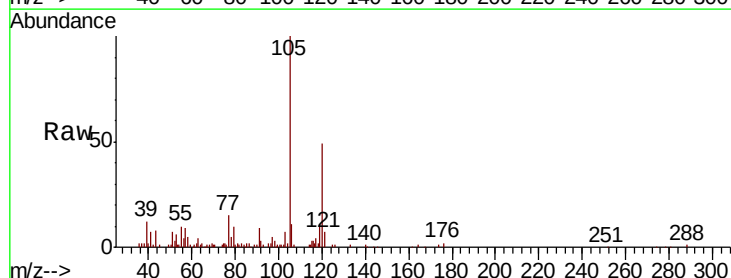
Ion Ratio Lower Upper

105 100

120 48.6 39.0 58.4

91 9.1 34.4 51.6#

77 15.1 15.7 23.5#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

