

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081121\
 Data File : VL037389.D
 Acq On : 11 Aug 2021 13:37
 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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apatel
 8/12/2021 10:17:00 AM

Quant Time: Aug 12 05:40:27 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	1049434	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3366441	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2847827	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2079066	9.79	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	29244m	0.154	ppbv	
3) Chlorodifluoromethane	2.99	51	73242m	0.375	ppbv	
4) Chloromethane	3.14	50	35052	0.488	ppbv	95
5) Vinyl Chloride	3.26	62	13095m	0.178	ppbv	
9) Propene	3.02	41	42468m	0.639	ppbv	
11) Trichlorofluoromethane	3.95	101	30733	0.193	ppbv	99
13) Ethanol	3.61	45	131265	16.370	ppbv	92
15) Acetone	3.85	43	681439	6.815	ppbv	100
19) Isopropyl Alcohol	3.97	45	66454m	1.154	ppbv	
20) Methylene Chloride	4.34	84	331730	6.110	ppbv	95
22) trans-1,2-Dichloroethene	4.88	96	22361m	0.460	ppbv	
24) 1,1-Dichloroethane	5.01	63	33135m	0.262	ppbv	
26) Hexane	5.69	57	269761	2.081	ppbv #	49
29) Chloroform	5.75	83	175407	0.944	ppbv #	80
31) cis-1,2-Dichloroethene	5.55	61	2601810	22.398	ppbv	98
34) 2-Butanone	5.25	43	98996	0.774	ppbv	90
35) Carbon Tetrachloride	7.03	117	9900m	0.053	ppbv	
36) Benzene	6.89	78	99657	0.373	ppbv #	88
41) Tetrahydrofuran	6.07	42	32532m	0.541	ppbv	
44) 2,2,4-Trimethylpentane	7.86	57	89028	0.200	ppbv #	86
52) Tetrachloroethene	11.22	164	4737m	0.044	ppbv	
53) Toluene	9.80	91	463786	1.497	ppbv	97
58) Ethyl Benzene	12.71	91	44796m	0.118	ppbv	
59) m/p-Xylene	12.96	91	113093m	0.346	ppbv	
60) o-Xylene	13.69	91	40943m	0.135	ppbv	
74) 1,2,4-Trimethylbenzene	16.76	105	41544m	0.124	ppbv	

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

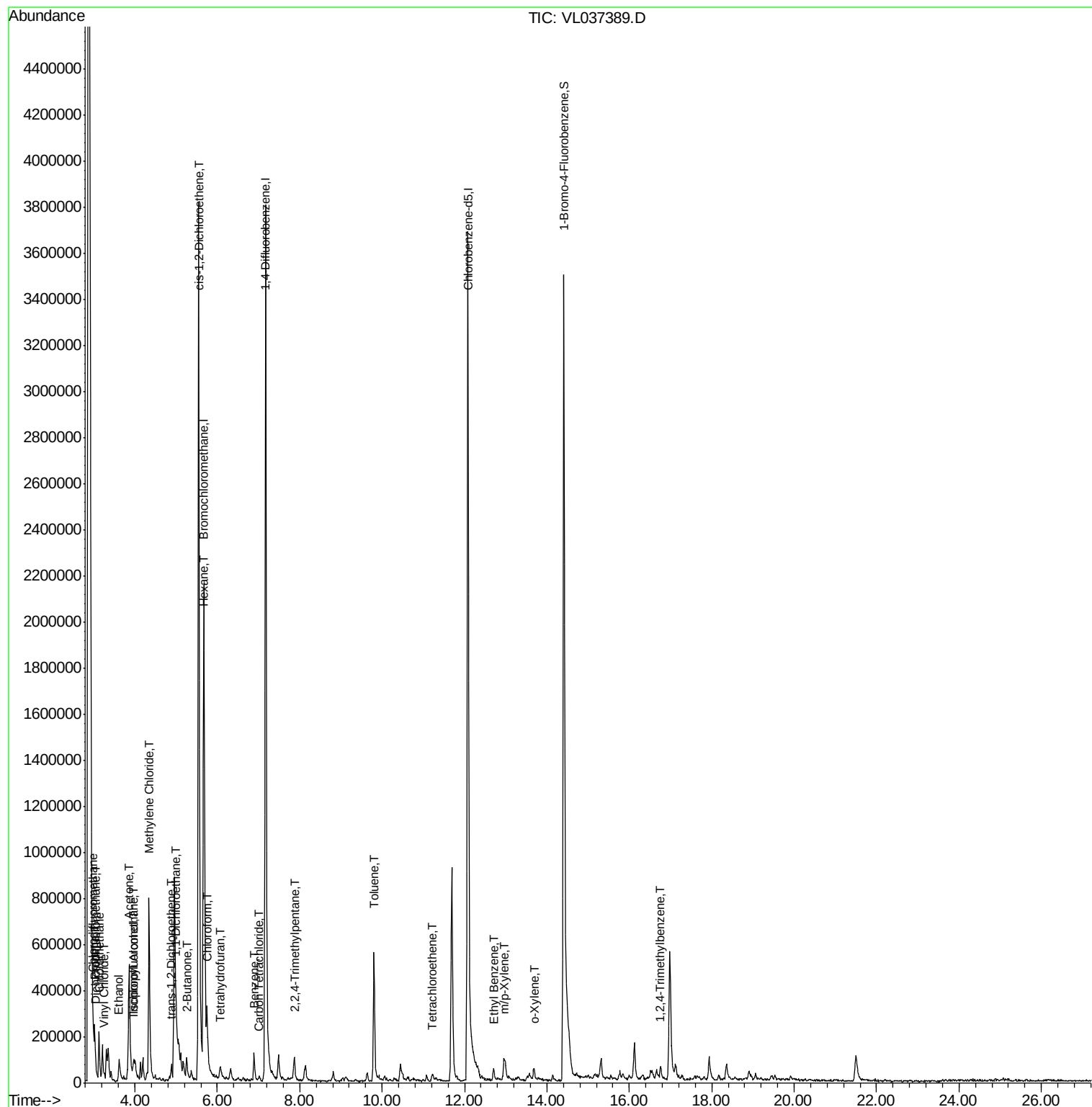
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL081121\
Data File : VL037389.D
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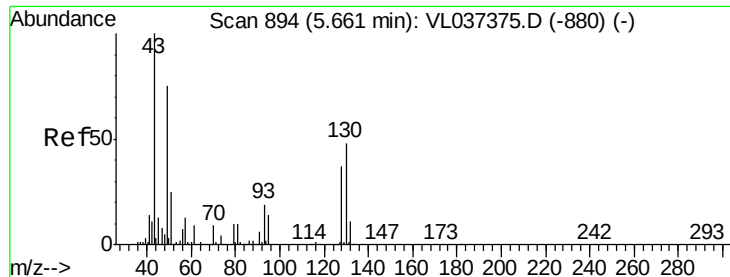
Instrument :
MSVOA_L
ClientSampleId :
OFFSITE-DDC-EFFLUENT

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Quant Time: Aug 12 05:40:27 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL081121AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug
QLast Update : Wed Aug 11 09:01:07 2021
Response via : Initial Calibration





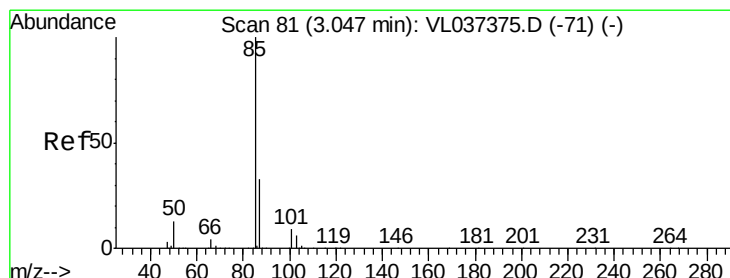
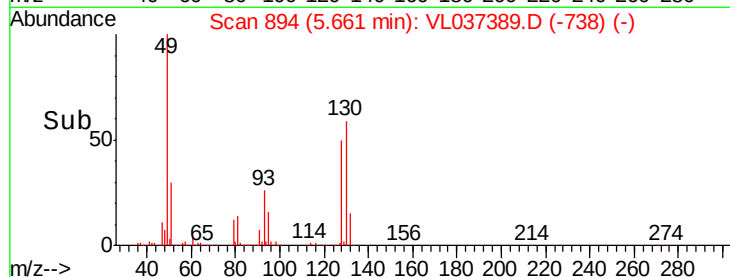
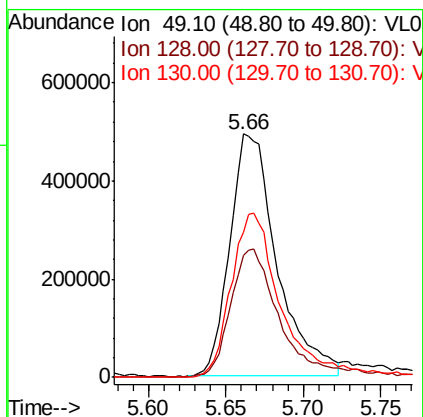
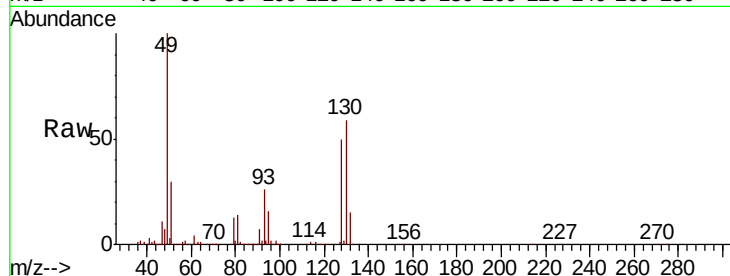
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.66 min Scan# 894
Delta R.T. 0.00 min
Lab File: VL037389.D
Acq: 11 Aug 2021 13:37

Instrument :
MSVOA_L
ClientSampleId :
OFFSITE-DDC-EFFLUENT

Tot Ion: 49 Resp: 1049434
Ion Ratio Lower Upper
49 100
128 57.7 28.1 84.4
130 72.7 34.3 102.8

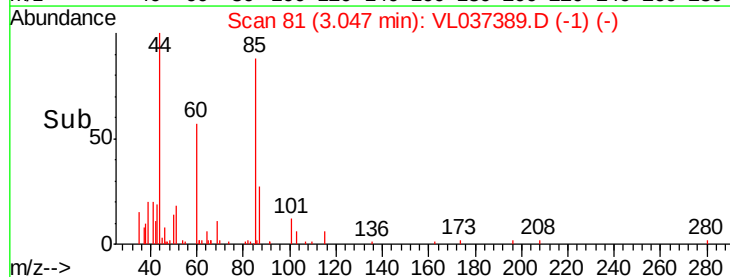
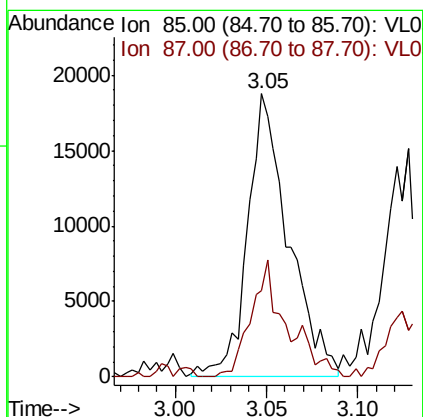
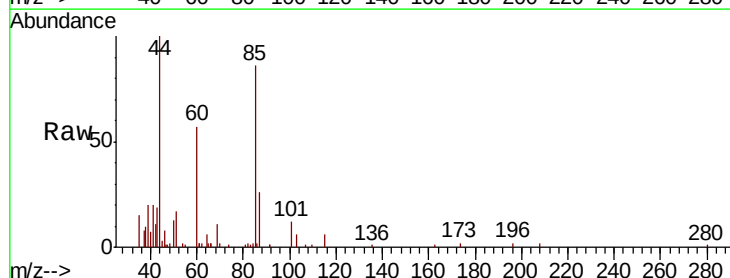
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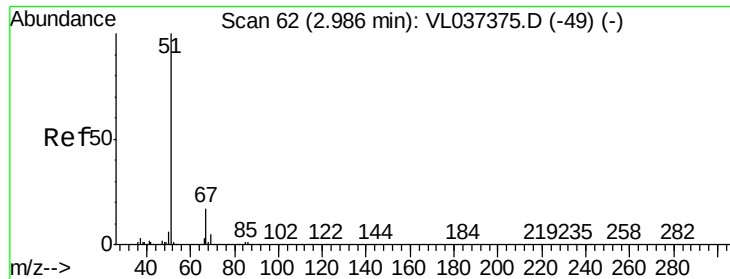
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#2
Dichlorodifluoromethane
Concen: 0.154 ppbv m
RT: 3.05 min Scan# 81
Delta R.T. 0.00 min
Lab File: VL037389.D
Acq: 11 Aug 2021 13:37

Tgt Ion: 85 Resp: 29244
Ion Ratio Lower Upper
85 100
87 30.6 26.6 39.8





#3

Chlorodifluoromethane

Concen: 0.375 ppbv

RT: 2.99 min Scan# 63

Delta R.T. 0.00 min

Lab File: VL037389.D

Acq: 11 Aug 2021 13:37

Instrument :

MSVOA_L

ClientSampleId :

OFFSITE-DDC-EFFLUENT

Tot Ion: 51 Resp: 73242

Ion Ratio Lower Upper

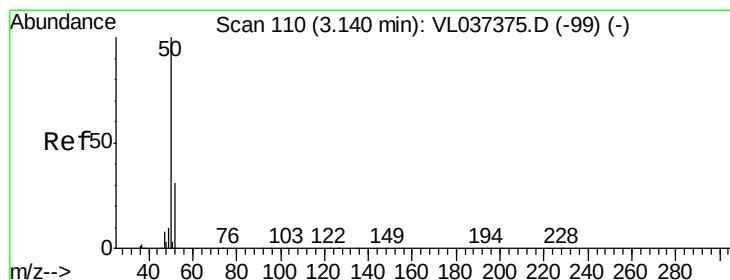
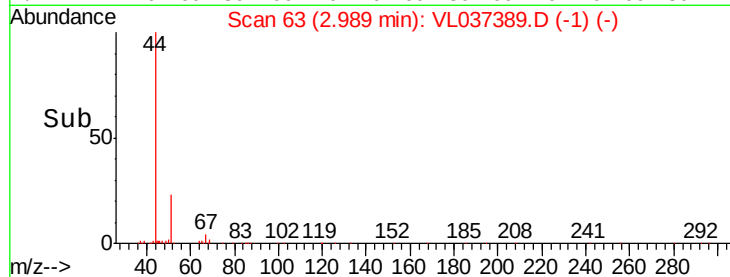
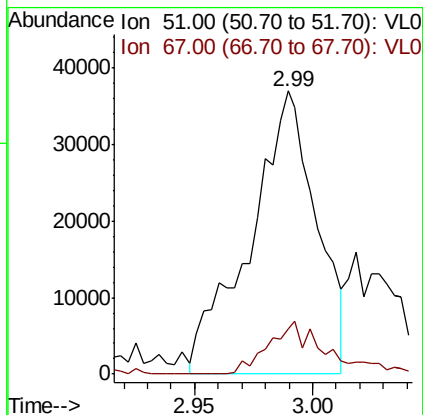
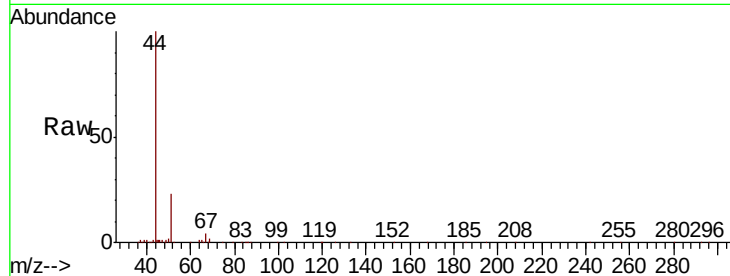
51 100

67 16.4 14.3 21.5

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#4

Chloromethane

Concen: 0.488 ppbv

RT: 3.14 min Scan# 110

Delta R.T. 0.00 min

Lab File: VL037389.D

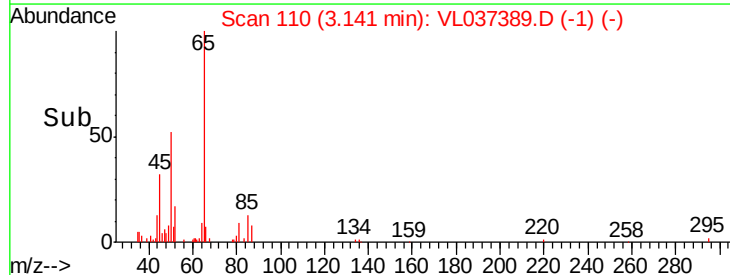
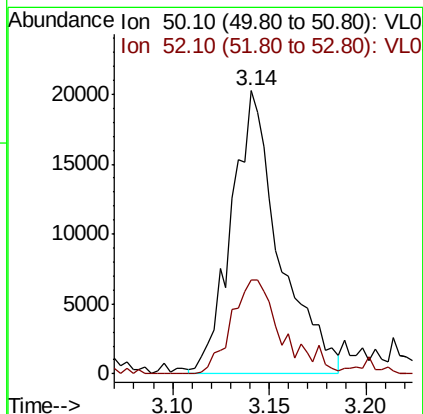
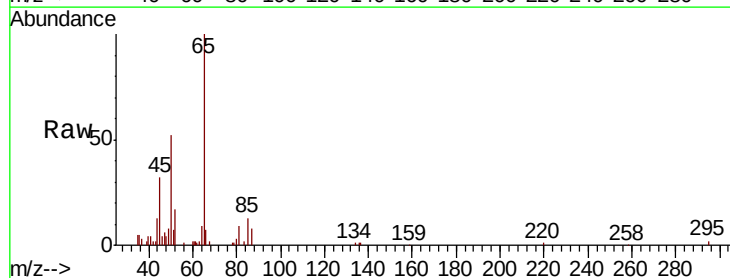
Acq: 11 Aug 2021 13:37

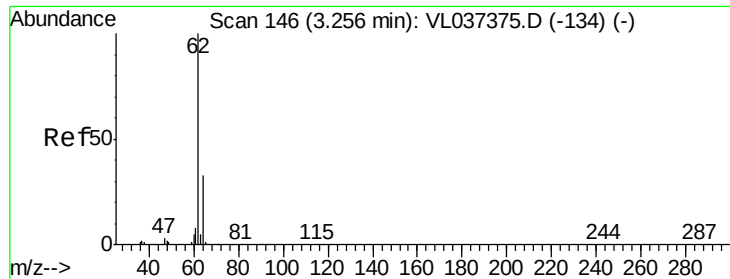
Tgt Ion: 50 Resp: 35052

Ion Ratio Lower Upper

50 100

52 33.9 25.0 37.4





#5

Vinyl Chloride

Concen: 0.178 ppbv m

RT: 3.26 min Scan# 147

Delta R.T. 0.00 min

Lab File: VL037389.D

Acq: 11 Aug 2021 13:37

Instrument :

MSVOA_L

ClientSampleId :

OFFSITE-DDC-EFFLUENT

Tot Ion: 62 Resp: 13095

Ion Ratio Lower Upper

62 100

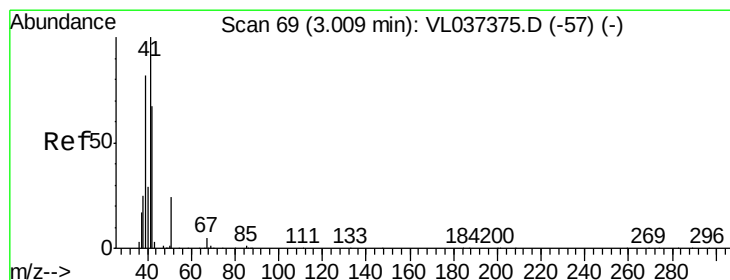
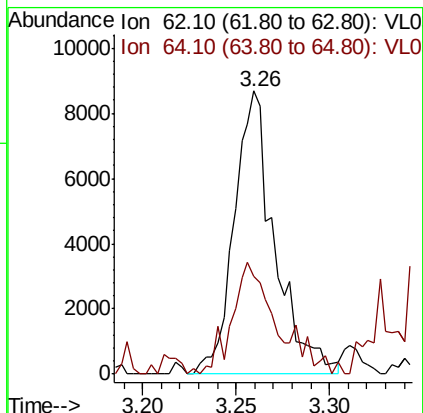
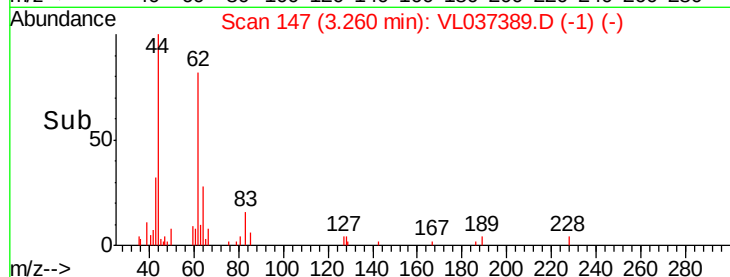
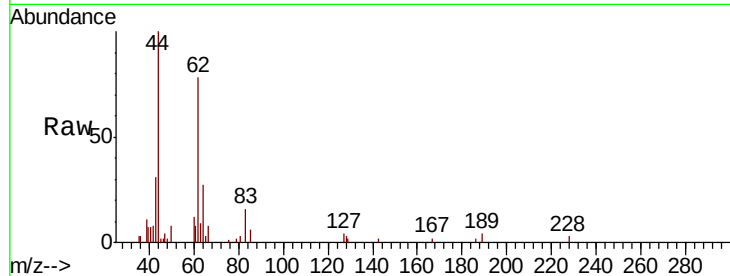
64 34.4 26.2 39.4

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#9

Propene

Concen: 0.639 ppbv m

RT: 3.02 min Scan# 73

Delta R.T. 0.01 min

Lab File: VL037389.D

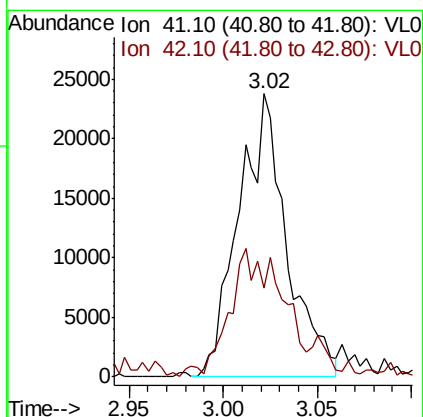
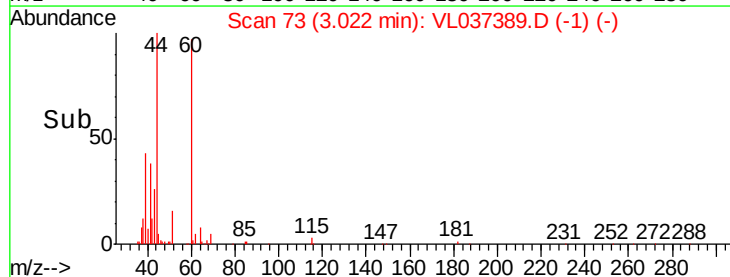
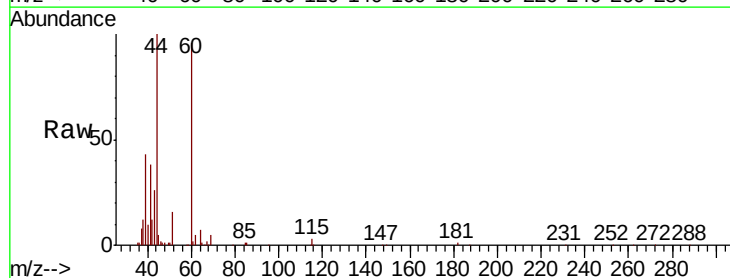
Acq: 11 Aug 2021 13:37

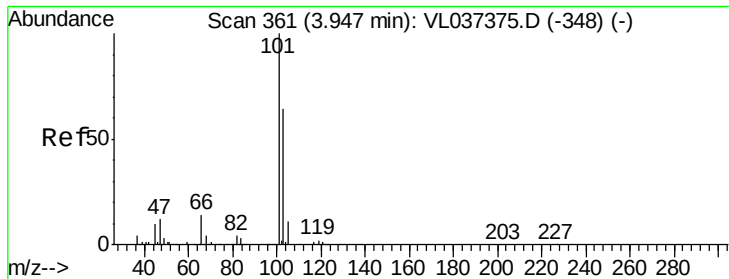
Tgt Ion: 41 Resp: 42468

Ion Ratio Lower Upper

41 100

42 51.7 55.5 83.3#





#11

Trichlorofluoromethane

Concen: 0.193 ppbv

RT: 3.95 min Scan# 363

Delta R.T. 0.01 min

Lab File: VL037389.D

Acq: 11 Aug 2021 13:37

Instrument :

MSVOA_L

ClientSampleId :

OFFSITE-DDC-EFFLUENT

Tot Ion:101 Resp: 30733

Ion Ratio Lower Upper

101 100

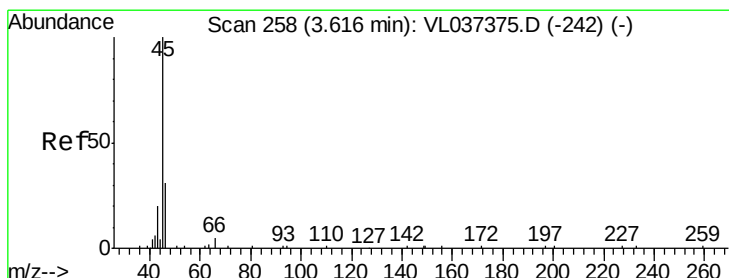
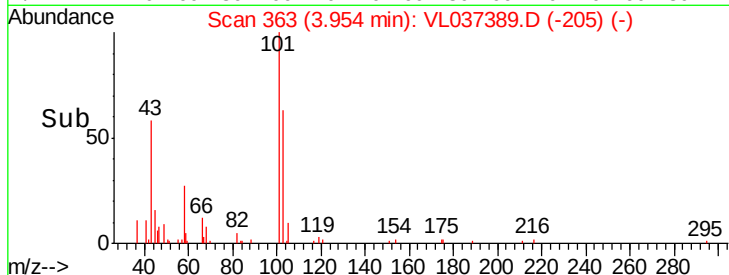
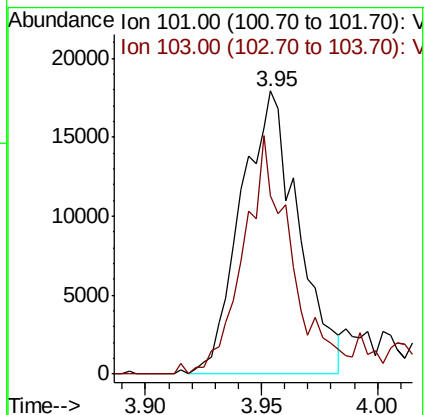
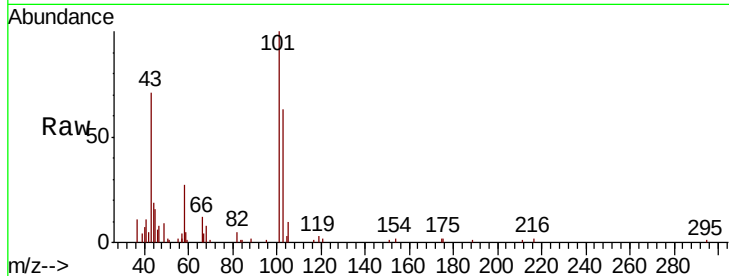
103 63.0 51.2 76.8

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#13

Ethanol

Concen: 16.370 ppbv

RT: 3.61 min Scan# 257

Delta R.T. -0.00 min

Lab File: VL037389.D

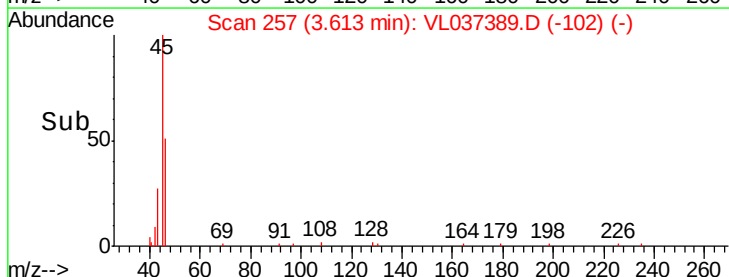
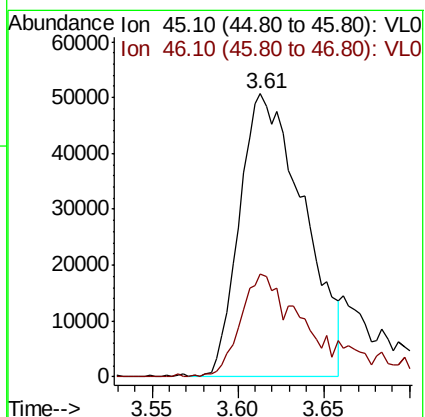
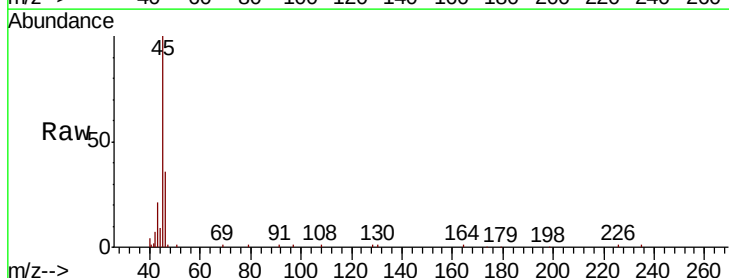
Acq: 11 Aug 2021 13:37

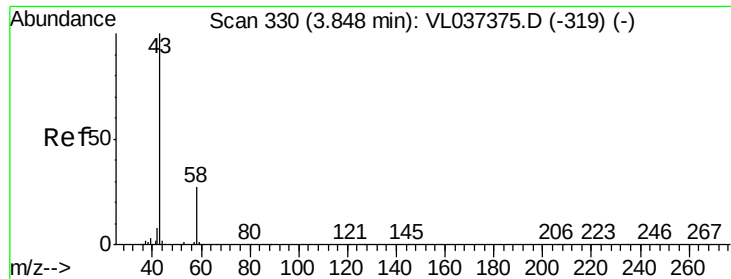
Tgt Ion: 45 Resp: 131265

Ion Ratio Lower Upper

45 100

46 44.7 15.8 63.4





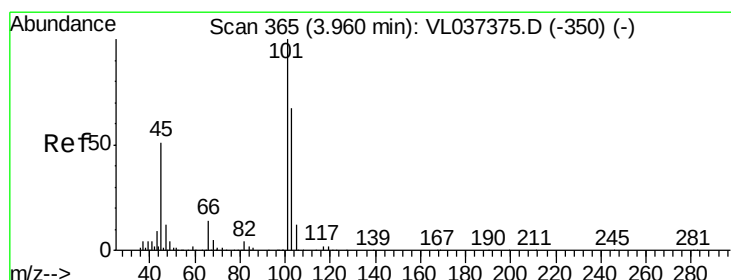
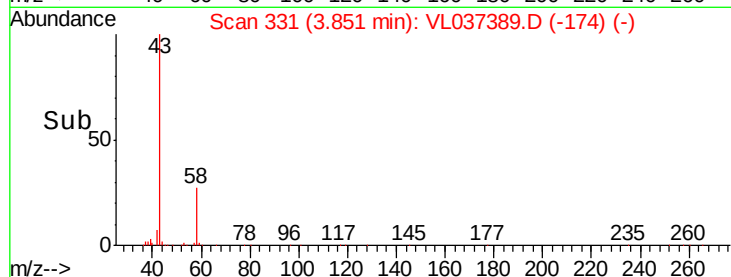
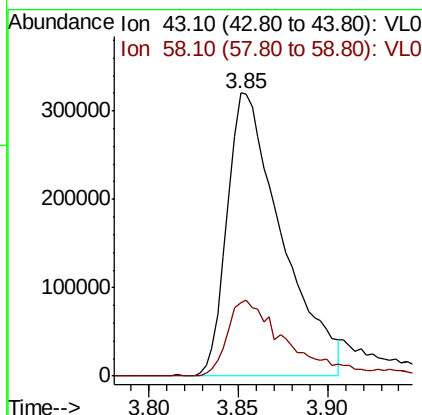
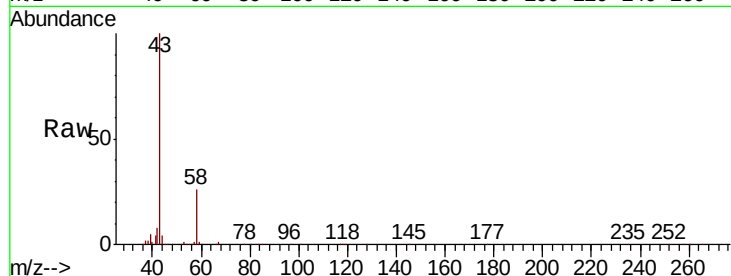
#15
Acetone
Concen: 6.815 ppbv
RT: 3.85 min Scan# 331
Delta R.T. 0.00 min
Lab File: VL037389.D
Acq: 11 Aug 2021 13:37

Instrument :
MSVOA_L
ClientSampleId :
OFFSITE-DDC-EFFLUENT

Tot Ion	Ratio	Lower	Upper
43	100		
58	30.8	24.6	37.0

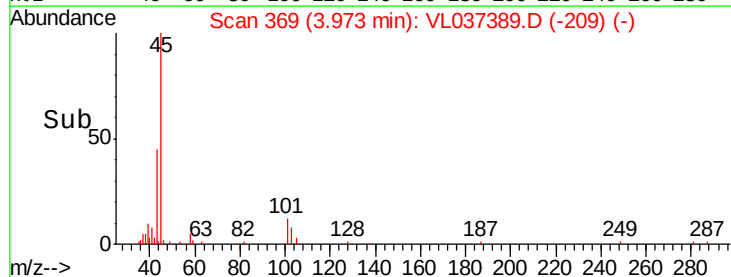
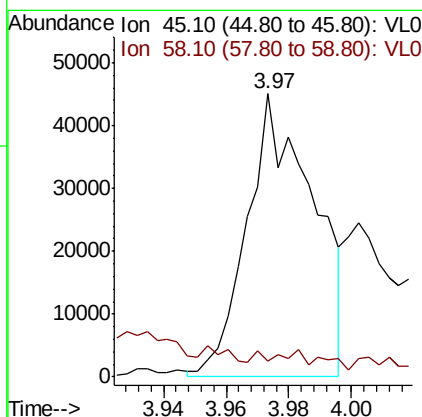
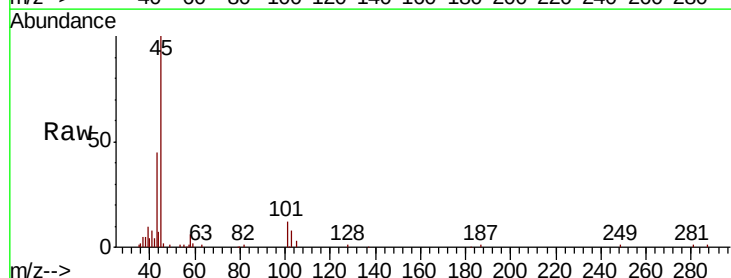
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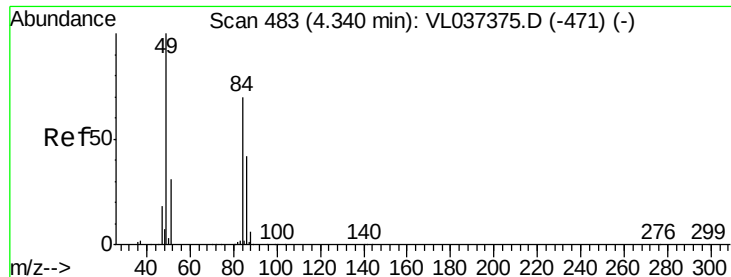
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#19
Isopropyl Alcohol
Concen: 1.154 ppbv m
RT: 3.97 min Scan# 369
Delta R.T. 0.01 min
Lab File: VL037389.D
Acq: 11 Aug 2021 13:37

Tgt Ion	Ratio	Lower	Upper
45	100		
58	0.0	38.7	58.1#





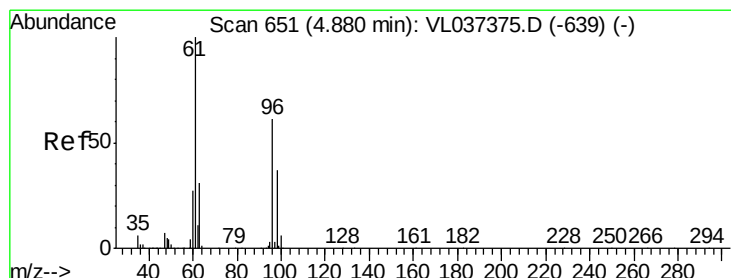
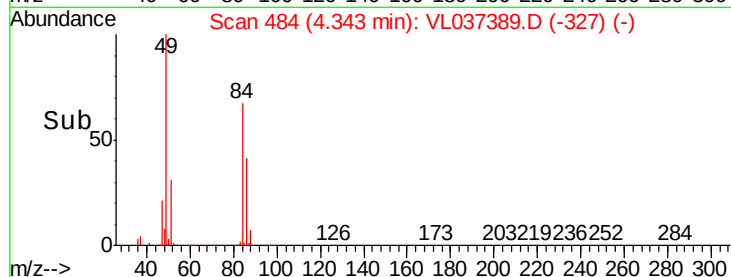
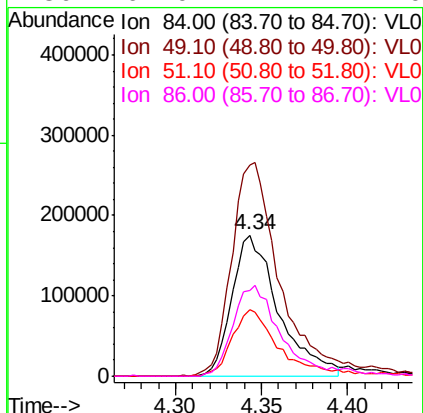
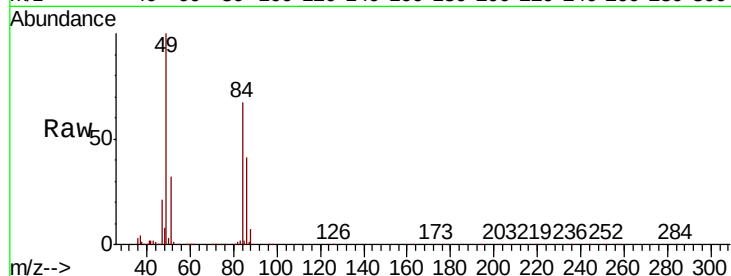
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Methylene Chloride
Concen: 6.110 ppbv
RT: 4.34 min Scan# 484
Delta R.T. 0.00 min
Lab File: VL037389.D
Acq: 11 Aug 2021 13:37

Instrument :
MSVOA_L
ClientSampleId :
OFFSITE-DDC-EFFLUENT

Tot Ion:	84	Resp:	331730
Ion	Ratio	Lower	Upper
84	100		
49	149.4	113.8	170.6
51	47.1	34.7	52.1
86	61.0	47.4	71.0

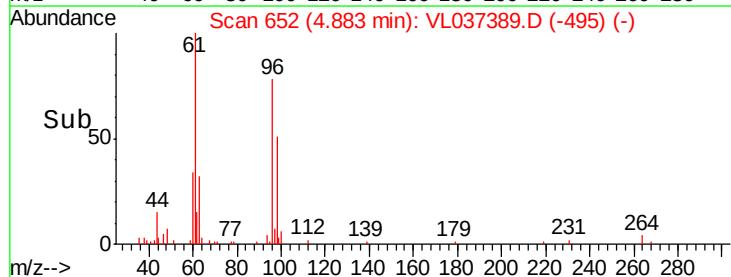
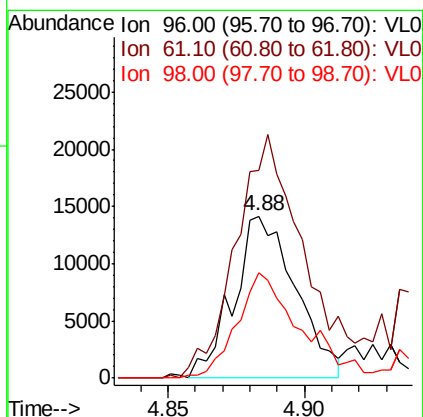
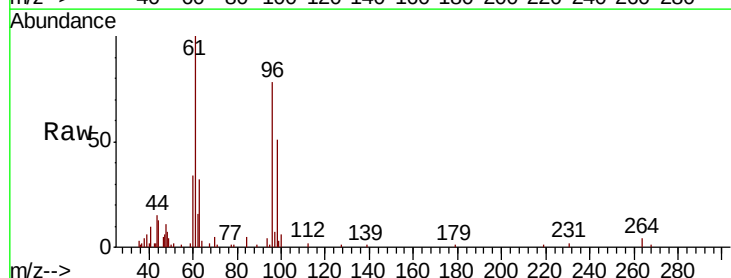
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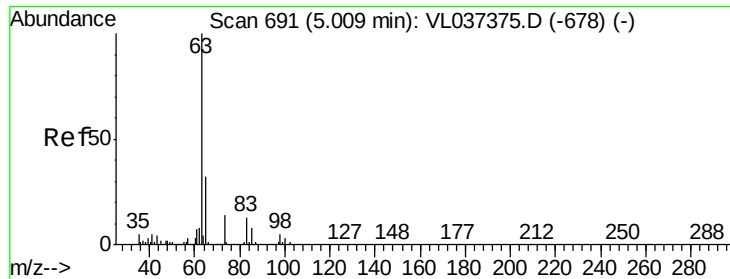
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#22
trans-1,2-Dichloroethene
Concen: 0.460 ppbv m
RT: 4.88 min Scan# 652
Delta R.T. 0.00 min
Lab File: VL037389.D
Acq: 11 Aug 2021 13:37

Tgt Ion:	96	Resp:	22361
Ion	Ratio	Lower	Upper
96	100		
61	128.3	132.2	198.4#
98	65.3	48.7	73.1





#24

1,1-Dichloroethane

Concen: 0.262 ppbv

RT: 5.01 min Scan# 691

Delta R.T. 0.00 min

Lab File: VL037389.D

Acq: 11 Aug 2021 13:37

Instrument :

MSVOA_L

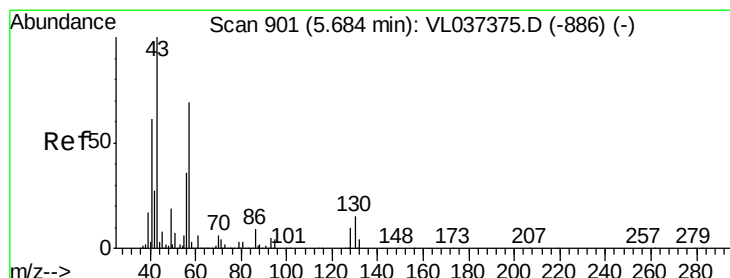
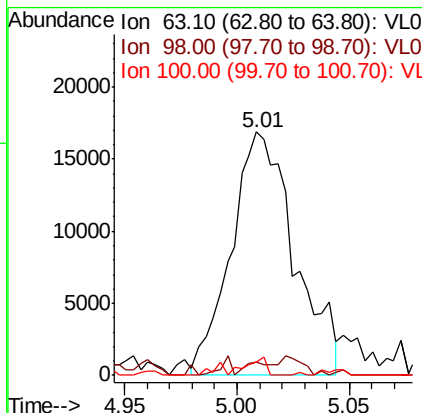
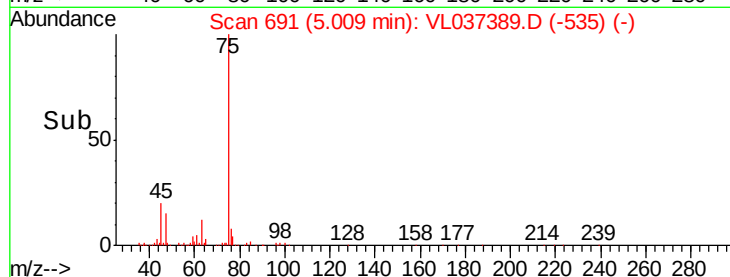
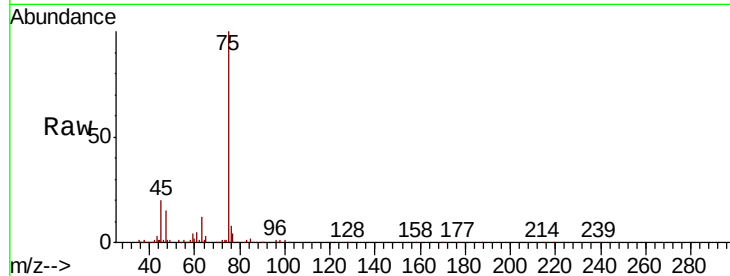
ClientSampleId :

OFFSITE-DDC-EFFLUENT

Tot Ion	Ratio	Resp	Lower	Upper
63	100	33135		
98	5.2		2.5	7.5
100	5.5		1.4	4.2#

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#26

Hexane

Concen: 2.081 ppbv

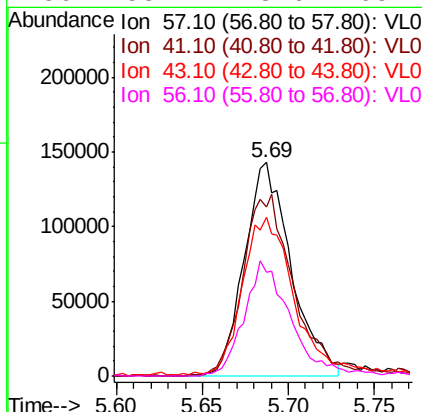
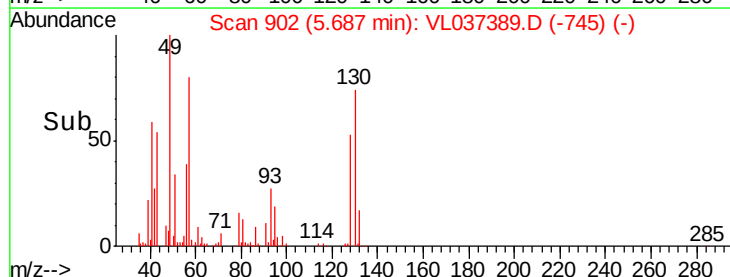
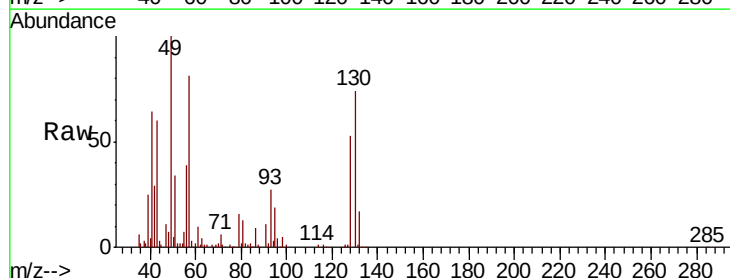
RT: 5.69 min Scan# 902

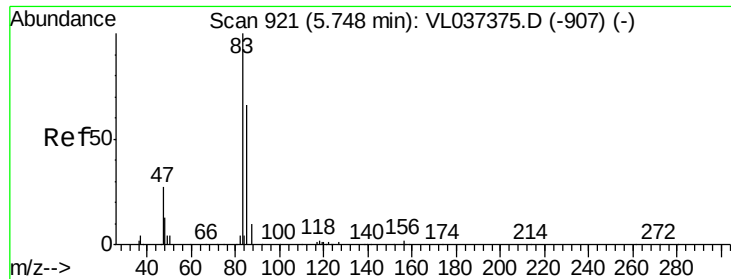
Delta R.T. 0.00 min

Lab File: VL037389.D

Acq: 11 Aug 2021 13:37

Tgt Ion	Ratio	Resp	Lower	Upper
57	100	269761		
41	95.6		73.4	110.0
43	85.6		174.4	261.6#
56	55.2		43.6	65.4





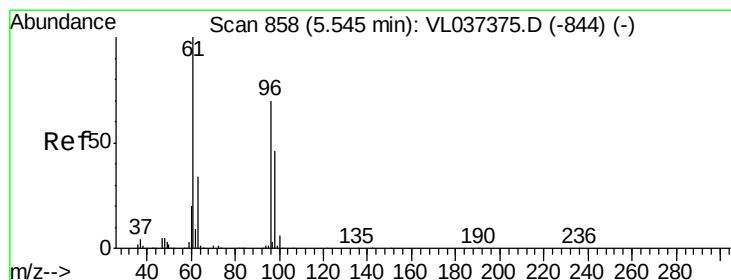
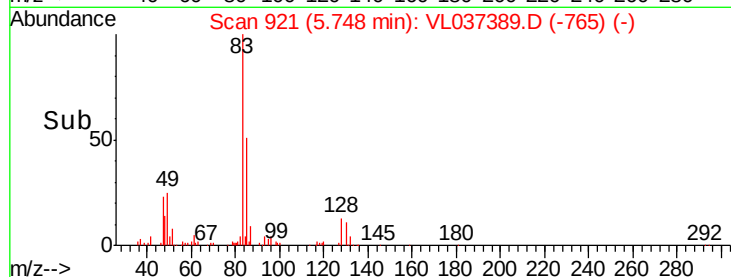
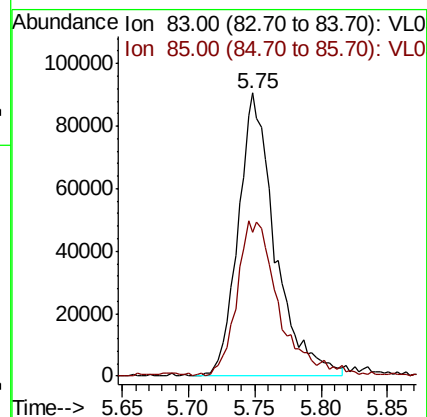
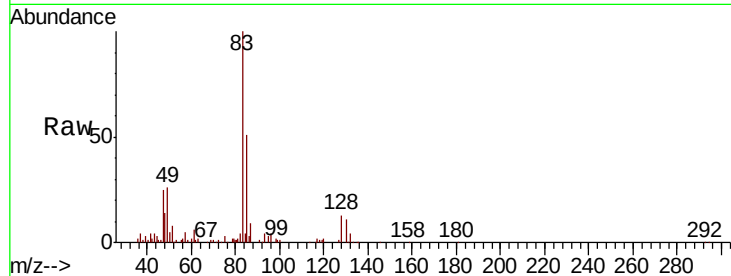
#29
Chloroform
Concen: 0.944 ppbv
RT: 5.75 min Scan# 921
Delta R.T. 0.00 min
Lab File: VL037389.D
Acq: 11 Aug 2021 13:37

Instrument :
MSVOA_L
ClientSampleId :
OFFSITE-DDC-EFFLUENT

Tot Ion	Ratio	Lower	Upper
83	100		
85	50.3	52.8	79.2#

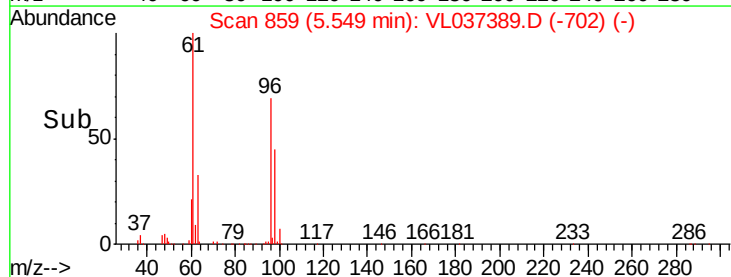
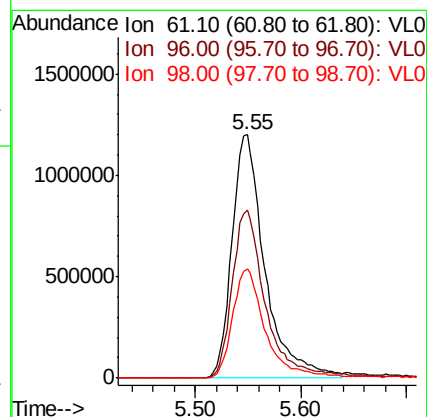
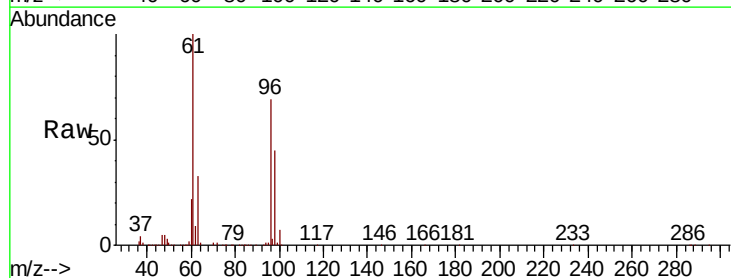
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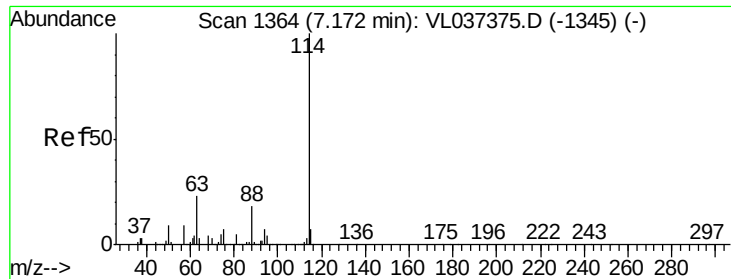
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#31
cis-1,2-Dichloroethene
Concen: 22.398 ppbv
RT: 5.55 min Scan# 859
Delta R.T. 0.00 min
Lab File: VL037389.D
Acq: 11 Aug 2021 13:37

Tgt Ion	Ratio	Lower	Upper
61	100		
96	68.8	56.0	84.0
98	44.8	36.8	55.2





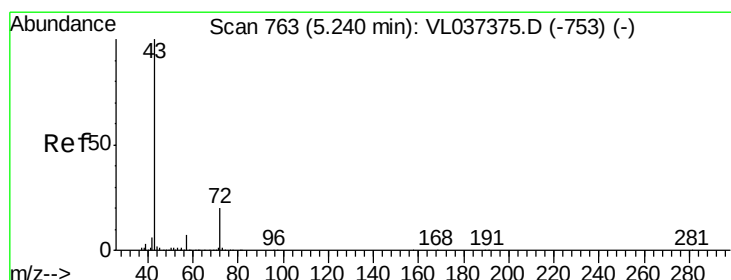
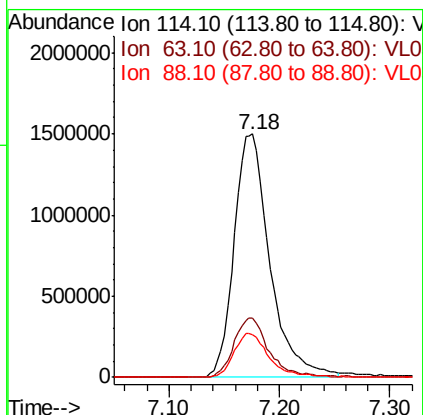
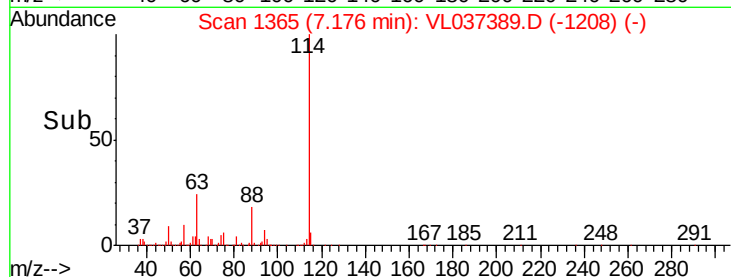
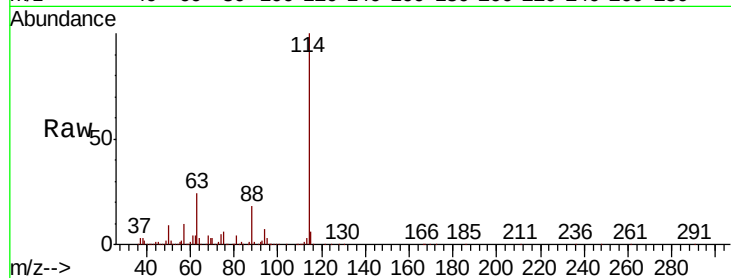
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. 0.00 min
 Lab File: VL037389.D
 Acq: 11 Aug 2021 13:37

Instrument :
 MSVOA_L
 ClientSampleId :
 OFFSITE-DDC-EFFLUENT

Tot Ion	Ratio	Lower	Upper
114	100		
63	24.3	19.5	29.3
88	18.3	14.3	21.5

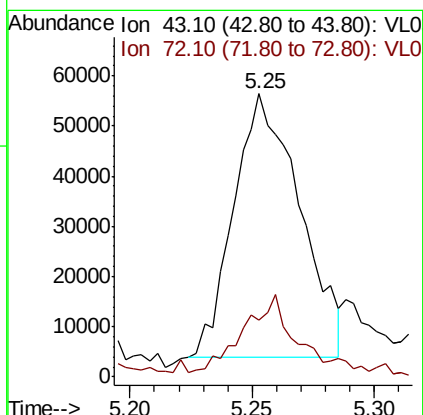
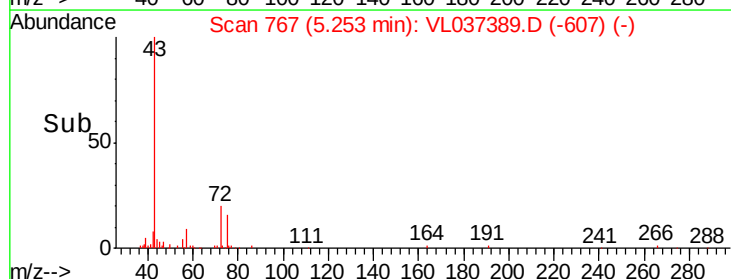
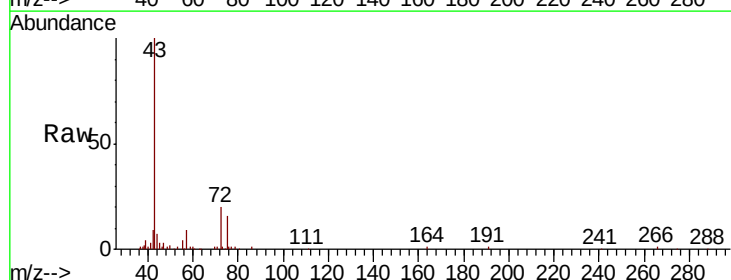
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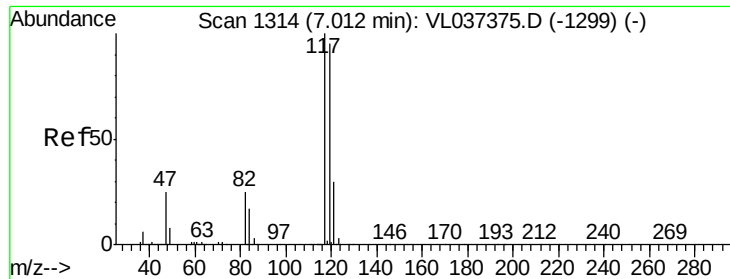
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#34
 2-Butanone
 Concen: 0.774 ppbv
 RT: 5.25 min Scan# 767
 Delta R.T. 0.01 min
 Lab File: VL037389.D
 Acq: 11 Aug 2021 13:37

Tgt Ion	Ratio	Lower	Upper
43	100		
72	29.3	19.6	29.4





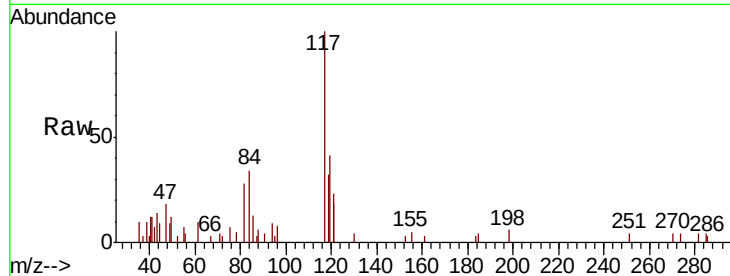
#35
Carbon Tetrachloride
Concen: 0.053 ppbv m
RT: 7.03 min Scan# 1319
Delta R.T. 0.02 min
Lab File: VL037389.D
Acq: 11 Aug 2021 13:37

Instrument :
MSVOA_L
ClientSampleId :
OFFSITE-DDC-EFFLUENT

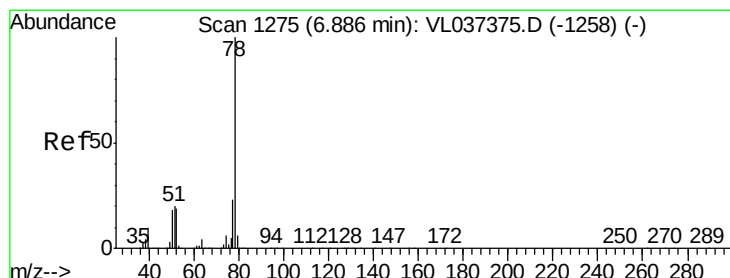
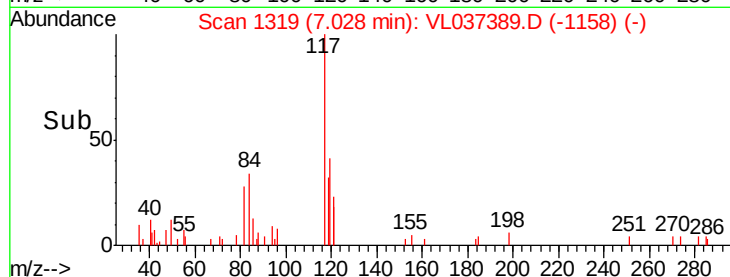
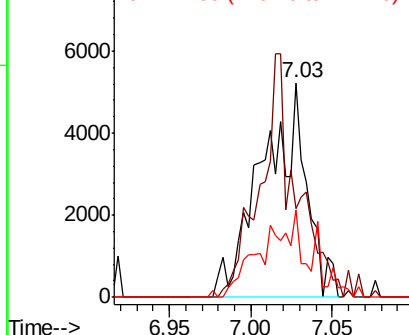
Tot Ion	Ratio	Lower	Upper
117	100		
119	41.1	76.1	114.1#
121	22.8	24.4	36.6#

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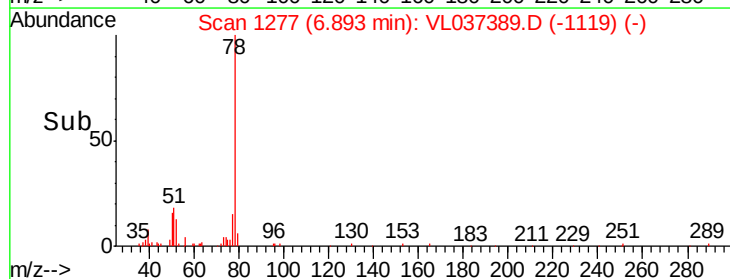
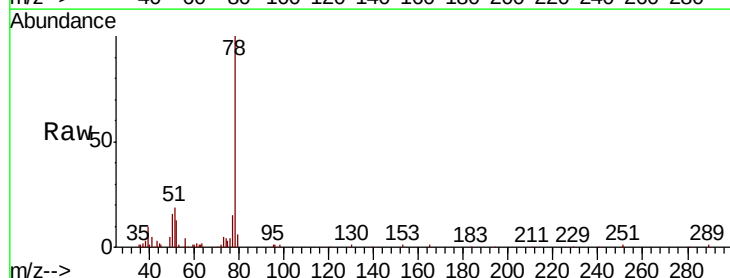
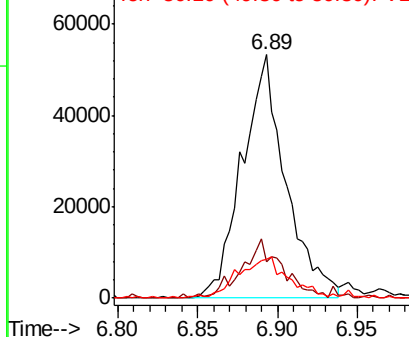
Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V

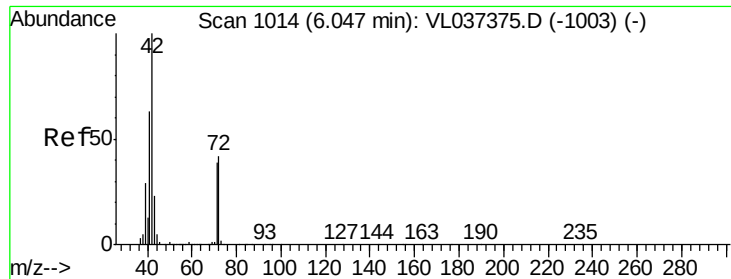


#36
Benzene
Concen: 0.373 ppbv
RT: 6.89 min Scan# 1277
Delta R.T. 0.01 min
Lab File: VL037389.D
Acq: 11 Aug 2021 13:37

Tgt Ion	Ratio	Lower	Upper
78	100		
77	15.0	18.6	28.0#
50	15.3	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





#41

Tetrahydrofuran

Concen: 0.541 ppbv m

RT: 6.07 min Scan# 1022

Delta R.T. 0.03 min

Lab File: VL037389.D

Acq: 11 Aug 2021 13:37

Instrument :

MSVOA_L

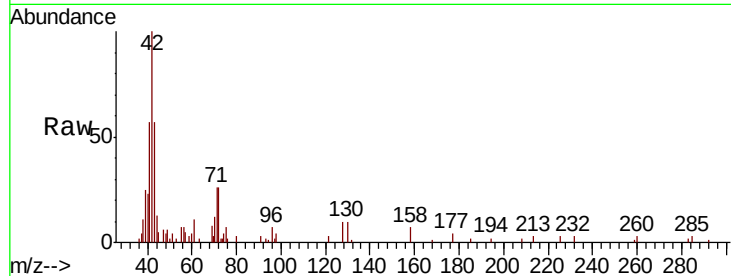
ClientSampleId :

OFFSITE-DDC-EFFLUENT

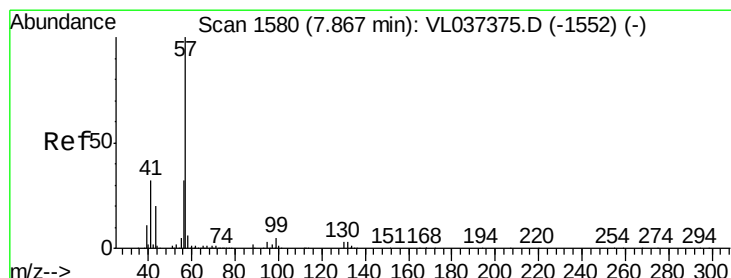
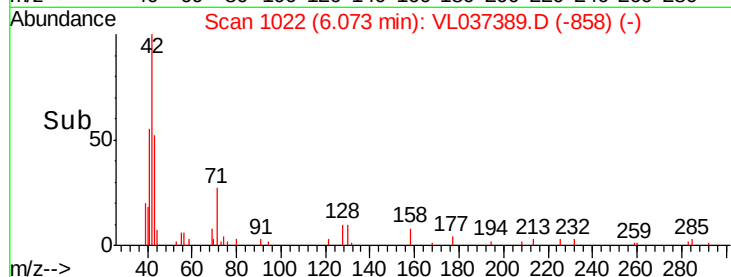
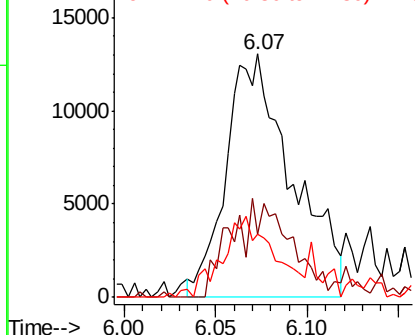
Tot Ion	Ratio	Lower	Upper
42	100		
72	0.0	34.4	51.6#
71	0.0	32.3	48.5#

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Abundance Ion 42.10 (41.80 to 42.80): VL0
Ion 72.10 (71.80 to 72.80): VL0
Ion 71.10 (70.80 to 71.80): VL0



#44

2,2,4-Trimethylpentane

Concen: 0.200 ppbv

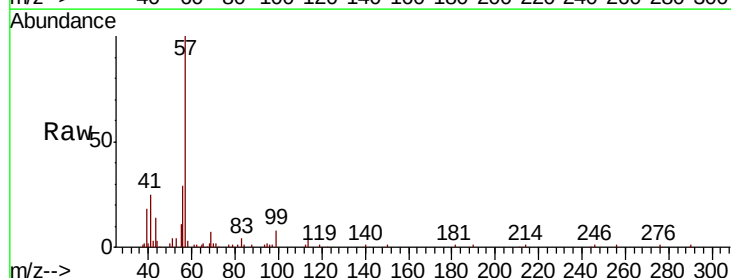
RT: 7.86 min Scan# 1579

Delta R.T. -0.00 min

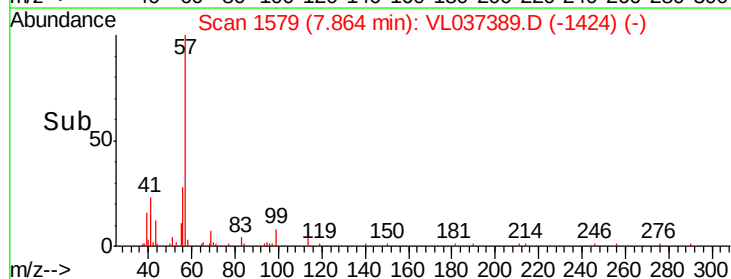
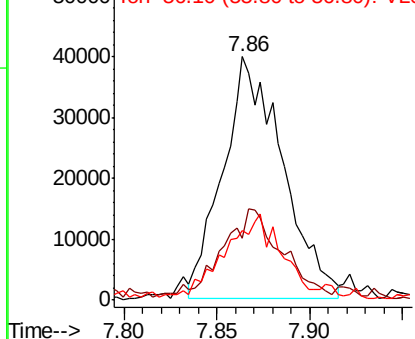
Lab File: VL037389.D

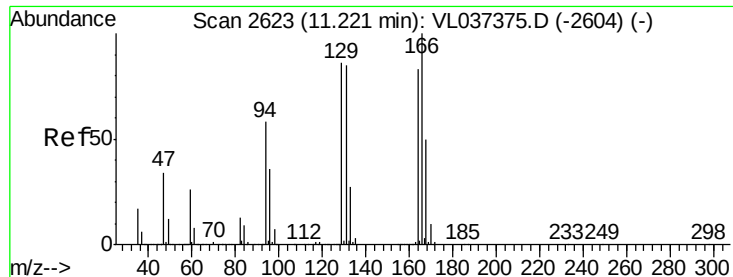
Acq: 11 Aug 2021 13:37

Tgt Ion	Ratio	Lower	Upper
57	100		
41	42.3	26.1	39.1#
56	37.1	25.1	37.7



Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 56.10 (55.80 to 56.80): VL0





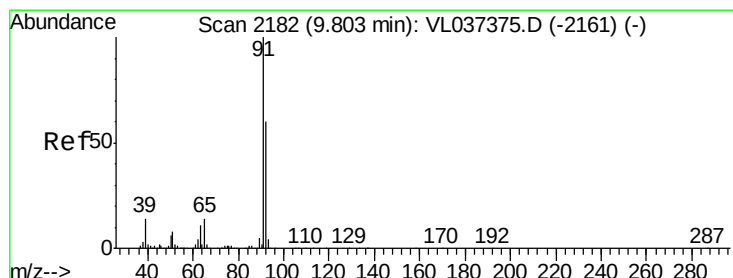
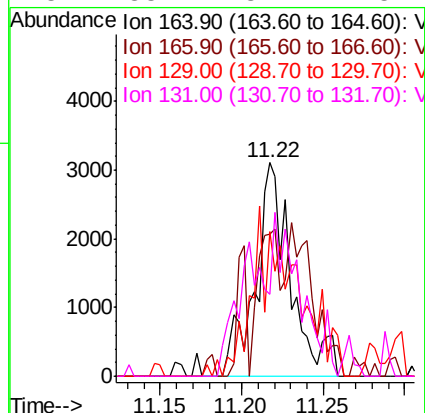
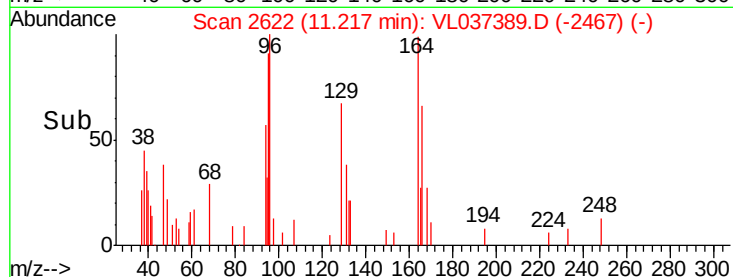
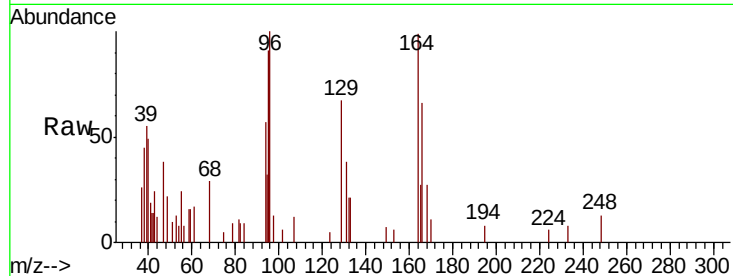
#52
Tetrachloroethene
Concen: 0.044 ppbv m
RT: 11.22 min Scan# 2622
Delta R.T. -0.00 min
Lab File: VL037389.D
Acq: 11 Aug 2021 13:37

Instrument :
MSVOA_L
ClientSampleId :
OFFSITE-DDC-EFFLUENT

Tot Ion	Ratio	Lower	Upper
164	100		
166	66.5	96.5	144.7#
129	67.8	83.2	124.8#
131	38.1	82.2	123.2#

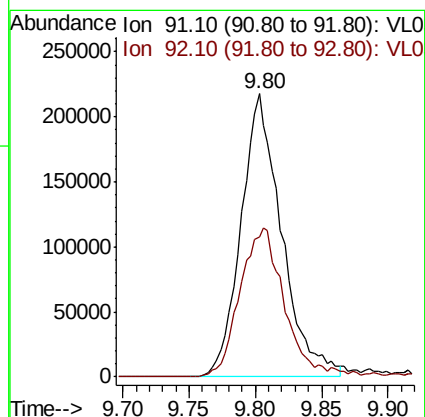
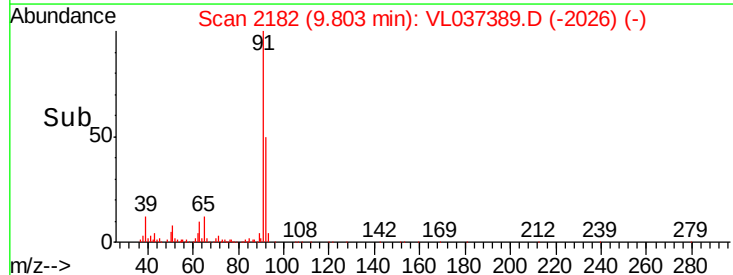
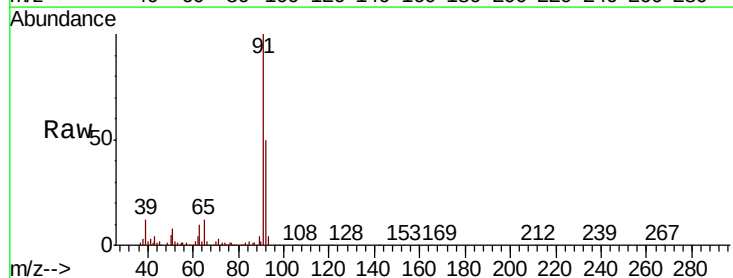
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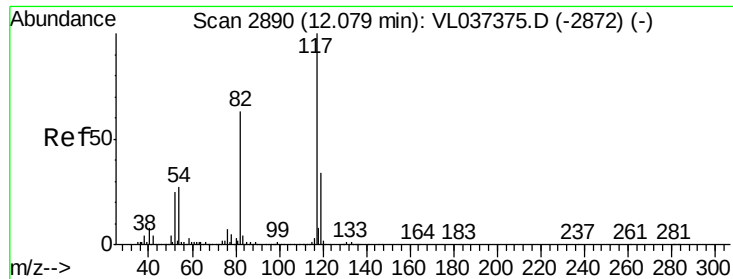
apatel
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#53
Toluene
Concen: 1.497 ppbv
RT: 9.80 min Scan# 2182
Delta R.T. 0.00 min
Lab File: VL037389.D
Acq: 11 Aug 2021 13:37

Tgt Ion	Ratio	Lower	Upper
91	100		
92	58.2	48.1	72.1





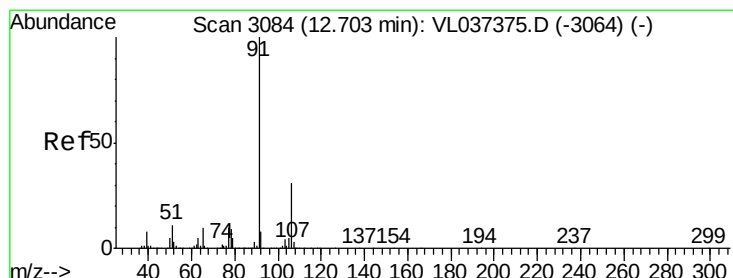
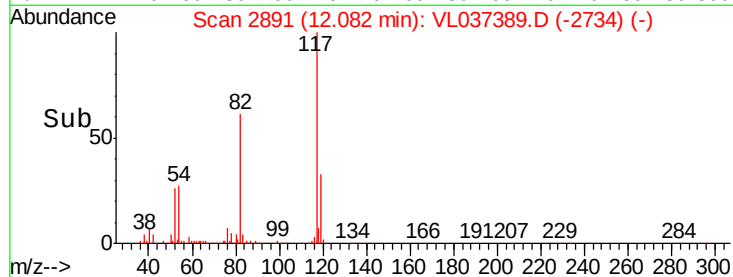
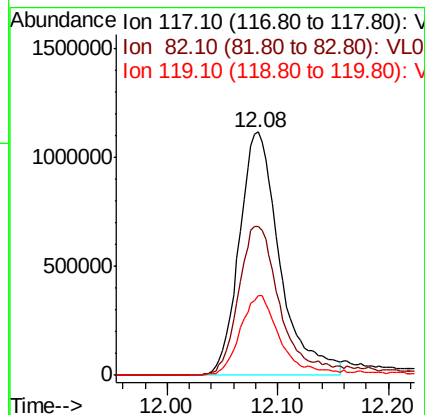
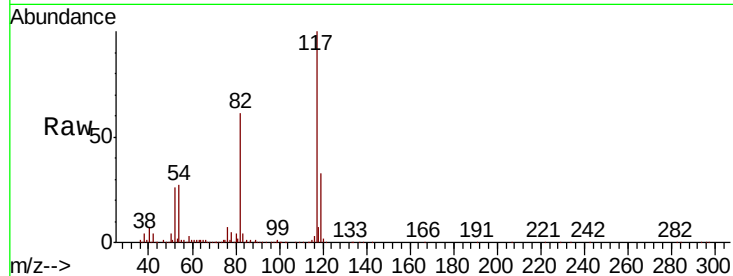
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min Scan# 2891
Delta R.T. 0.00 min
Lab File: VL037389.D
Acq: 11 Aug 2021 13:37

Instrument :
MSVOA_L
ClientSampleId :
OFFSITE-DDC-EFFLUENT

Tot Ion	Ratio	Lower	Upper
117	100		
82	68.7	52.6	78.8
119	33.3	46.7	70.1#

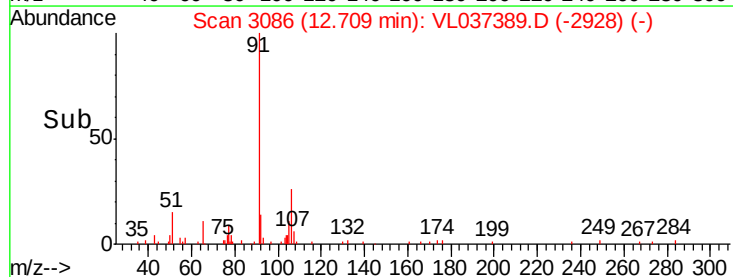
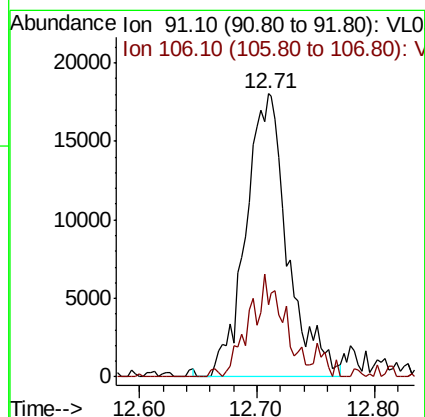
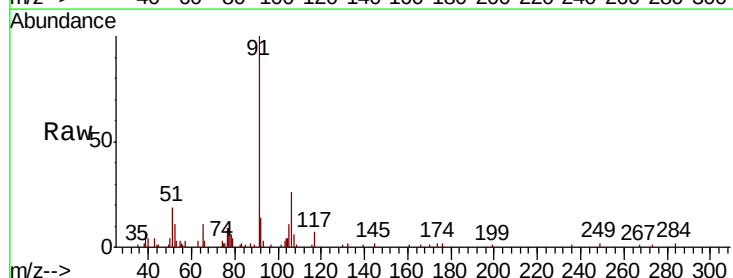
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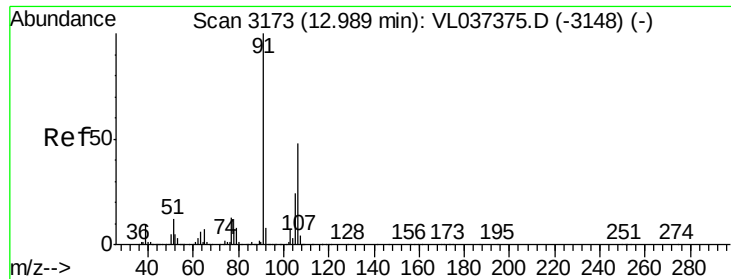
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#58
Ethyl Benzene
Concen: 0.118 ppbv m
RT: 12.71 min Scan# 3086
Delta R.T. 0.01 min
Lab File: VL037389.D
Acq: 11 Aug 2021 13:37

Tgt Ion	Ratio	Lower	Upper
91	100		
106	25.7	24.6	36.8





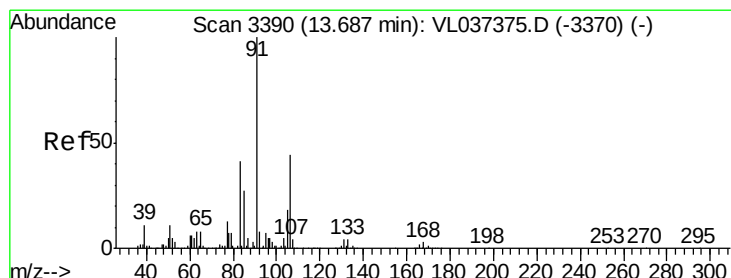
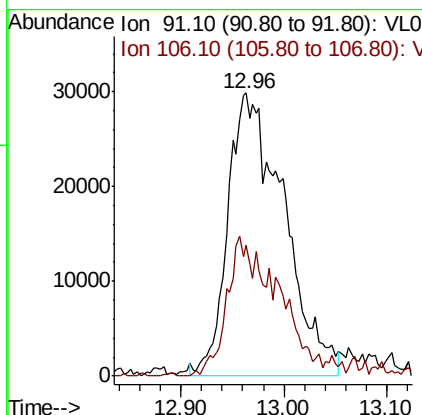
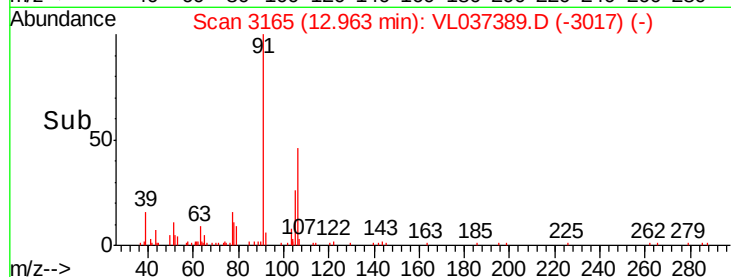
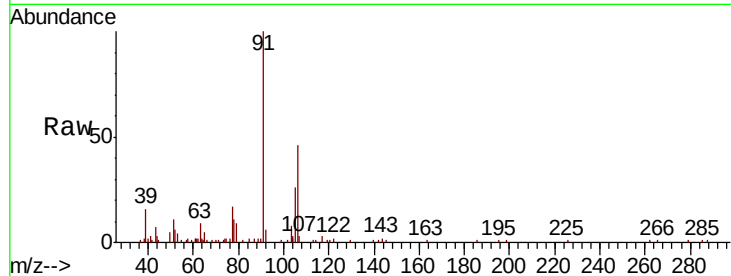
#59
m/p-Xylene
Concen: 0.346 ppbv m
RT: 12.96 min Scan# 3165
Delta R.T. -0.03 min
Lab File: VL037389.D
Acq: 11 Aug 2021 13:37

Instrument :
MSVOA_L
ClientSampleId :
OFFSITE-DDC-EFFLUENT

Tot Ion: 91 Resp: 113093
Ion Ratio Lower Upper
91 100
106 0.0 36.6 55.0#

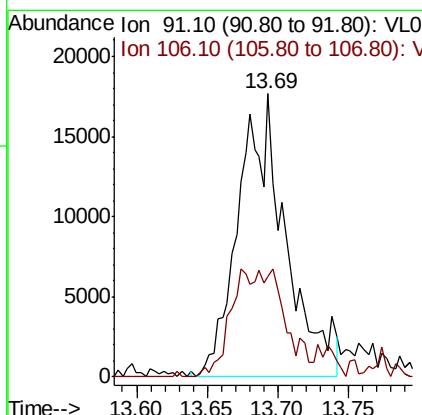
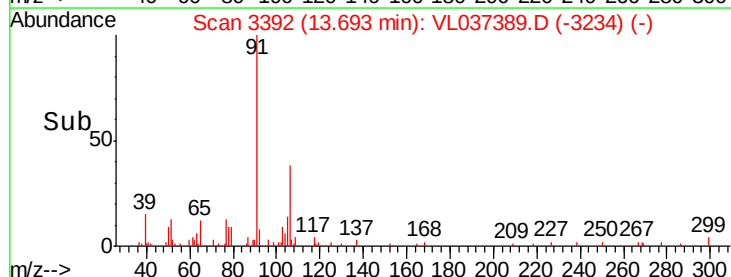
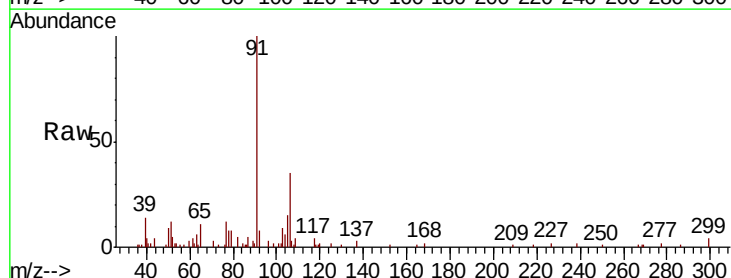
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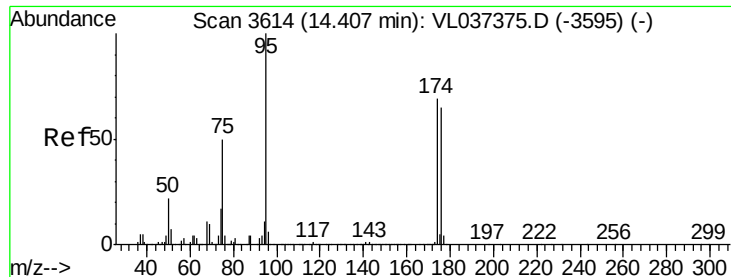
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#60
o-Xylene
Concen: 0.135 ppbv m
RT: 13.69 min Scan# 3392
Delta R.T. 0.01 min
Lab File: VL037389.D
Acq: 11 Aug 2021 13:37

Tgt Ion: 91 Resp: 40943
Ion Ratio Lower Upper
91 100
106 0.0 23.2 69.6#





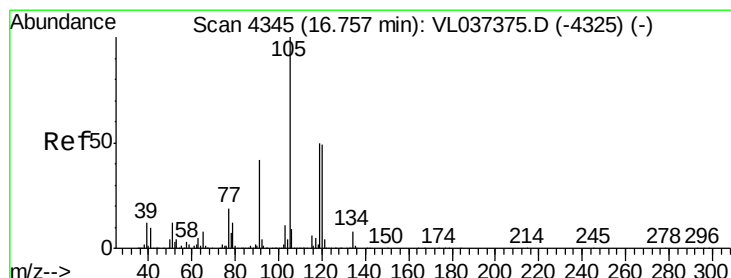
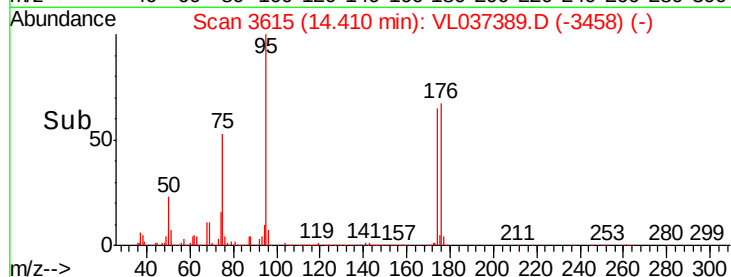
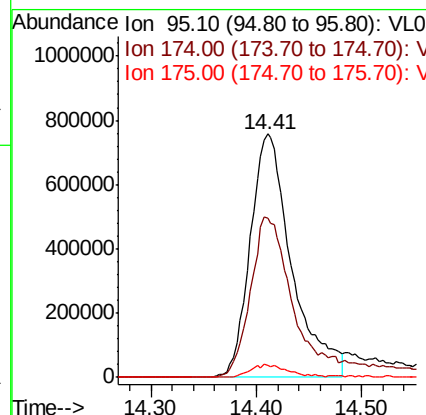
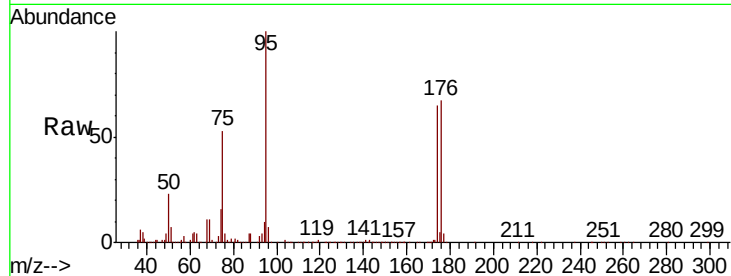
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.789 ppbv
 RT: 14.41 min Scan# 3615
 Delta R.T. 0.00 min
 Lab File: VL037389.D
 Acq: 11 Aug 2021 13:37

Instrument :
 MSVOA_L
 ClientSampleId :
 OFFSITE-DDC-EFFLUENT

Tot Ion: 95 Resp: 2079066
 Ion Ratio Lower Upper
 95 100
 174 76.7 58.3 87.5
 175 5.9 4.3 6.5

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#74
 1,2,4-Trimethylbenzene
 Concen: 0.124 ppbv m
 RT: 16.76 min Scan# 4346
 Delta R.T. 0.00 min
 Lab File: VL037389.D
 Acq: 11 Aug 2021 13:37

Tgt Ion: 105 Resp: 41544
 Ion Ratio Lower Upper
 105 100
 120 34.8 39.0 58.4#
 91 12.4 34.4 51.6#
 77 13.6 15.7 23.5#

