

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL123019\
 Data File : VL034524.D
 Acq On : 30 Dec 2019 23:09
 Operator : SY/AP
 Sample : K6388-01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 INFLUENT

Manual Integrations
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Quant Time: Dec 31 05:53:35 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL123019AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec 31 2019
 QLast Update : Mon Dec 30 14:58:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	909887	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	1816803	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.13	117	1811816	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.47	95	1526160	10.09	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	39314	0.274	ppbv	95
3) Chlorodifluoromethane	2.96	51	32302m	0.298	ppbv	
4) Chloromethane	3.11	50	7439	0.116	ppbv #	60
7) Chloroethane	3.53	64	24019	1.093	ppbv	91
9) Propene	2.99	41	31985m	0.765	ppbv	
11) Trichlorofluoromethane	3.93	101	69711	0.420	ppbv	88
12) 1,1,2-Trichlorotrifluoroet	4.47	101	119796	1.134	ppbv	97
13) Ethanol	3.59	45	33817m	2.916	ppbv	
15) Acetone	3.84	43	358968	2.703	ppbv #	89
18) 1,1-Dichloroethene	4.28	96	72528	1.576	ppbv	93
19) Isopropyl Alcohol	3.96	45	99869	1.162	ppbv #	88
20) Methylene Chloride	4.33	84	34700	0.664	ppbv #	94
22) trans-1,2-Dichloroethene	4.88	96	12516	0.267	ppbv	91
24) 1,1-Dichloroethane	5.01	63	1468078	11.920	ppbv	100
26) Hexane	5.69	57	31236	0.357	ppbv #	40
32) 1,1,1-Trichloroethane	6.53	97	7763559	49.467	ppbv	90
34) 2-Butanone	5.25	43	24152m	0.186	ppbv	
35) Carbon Tetrachloride	7.03	117	11162m	0.068	ppbv	
36) Benzene	6.91	78	32373	0.204	ppbv #	86
38) Trichloroethene	7.87	130	19968m	0.312	ppbv	
44) 2,2,4-Trimethylpentane	7.90	57	37557m	0.128	ppbv	
52) Tetrachloroethene	11.26	164	35198m	0.570	ppbv	
53) Toluene	9.84	91	138448	0.796	ppbv	99
58) Ethyl Benzene	12.76	91	35064m	0.144	ppbv	
59) m/p-Xylene	13.01	91	135271m	0.633	ppbv	
60) o-Xylene	13.75	91	43737	0.204	ppbv	96
74) 1,2,4-Trimethylbenzene	16.82	105	28547	0.113	ppbv #	67

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

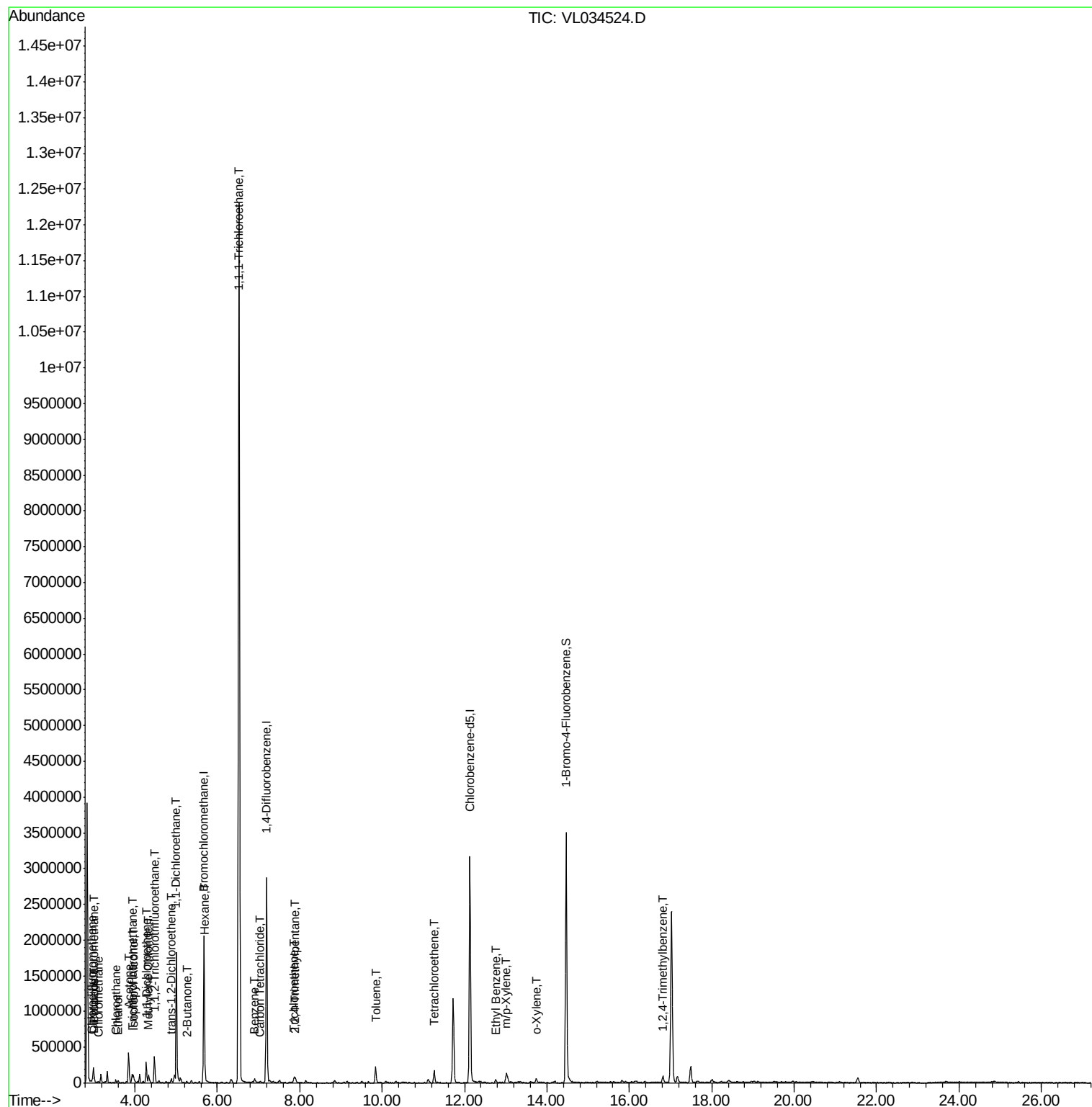
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL123019\
Data File : VL034524.D
Acq On : 30 Dec 2019 23:09
Operator : SY/AP
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Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

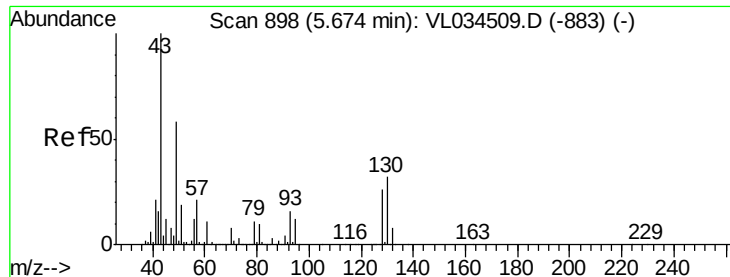
Instrument :
MSVOA_L
ClientSampleId :
INFLUENT

Quant Time: Dec 31 05:53:35 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL123019AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Dec
QLast Update : Mon Dec 30 14:58:50 2019
Response via : Initial Calibration

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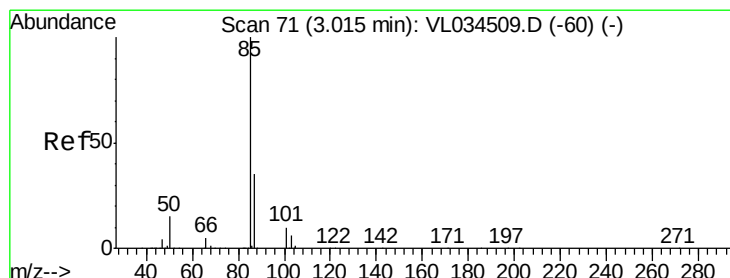
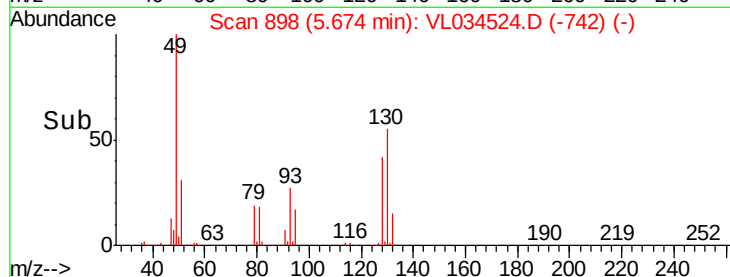
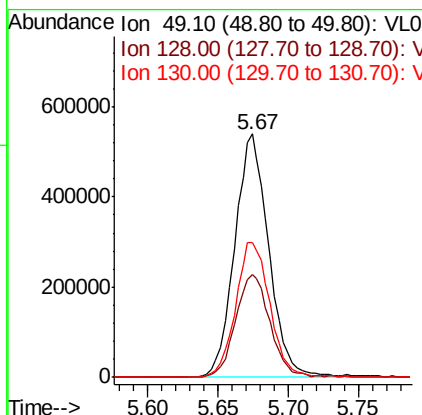
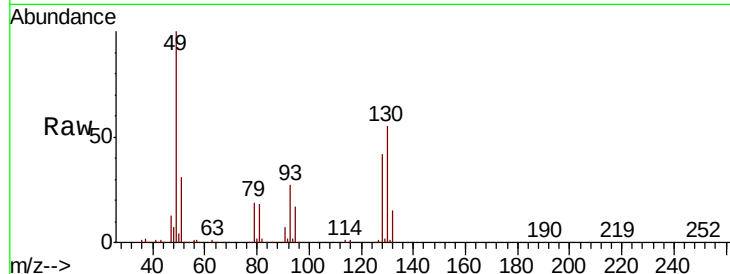
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.67 min Scan# 898
Delta R.T. -0.00 min
Lab File: VL034524.D
Acq: 30 Dec 2019 23:09

Instrument :
MSVOA_L
ClientSampleId :
INFLUENT

Tot Ion	Ratio	Lower	Upper
49	100		
128	43.1	22.4	67.2
130	56.1	28.3	85.0

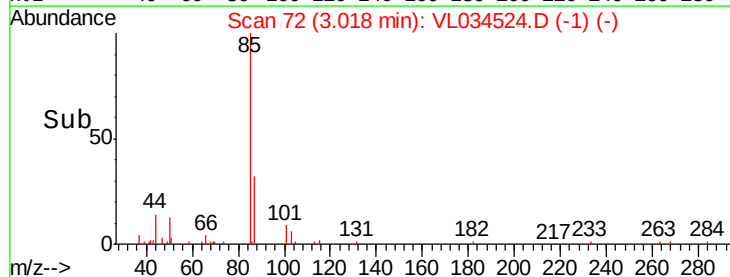
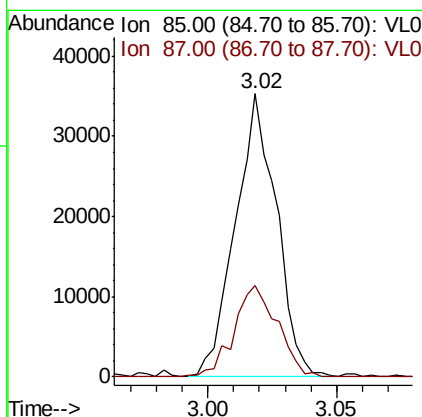
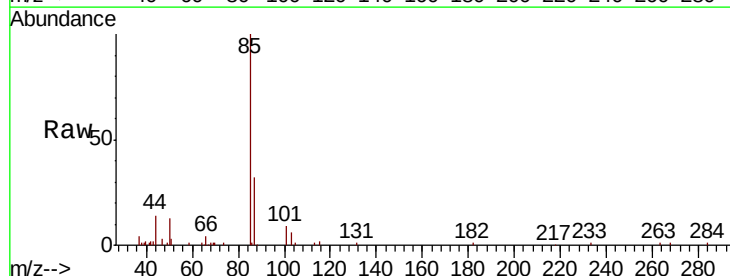
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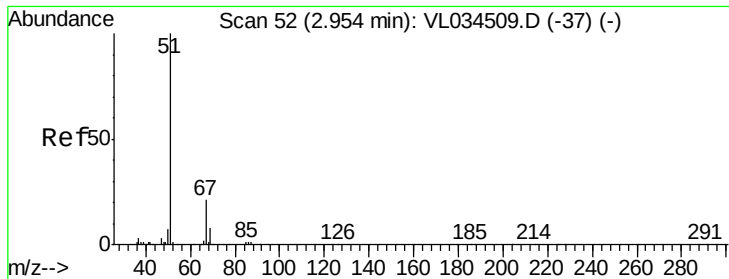
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#2
Dichlorodifluoromethane
Concen: 0.274 ppbv
RT: 3.02 min Scan# 72
Delta R.T. 0.00 min
Lab File: VL034524.D
Acq: 30 Dec 2019 23:09

Tgt Ion	Ratio	Lower	Upper
85	100		
87	32.2	27.9	41.9





#3

Chlorodifluoromethane

Concen: 0.298 ppbv

RT: 2.96 min Scan# 53

Delta R.T. 0.00 min

Lab File: VL034524.D

Acq: 30 Dec 2019 23:09

Instrument :

MSVOA_L

ClientSampleId :

INFLUENT

Tot Ion: 51 Resp: 32302

Ion Ratio Lower Upper

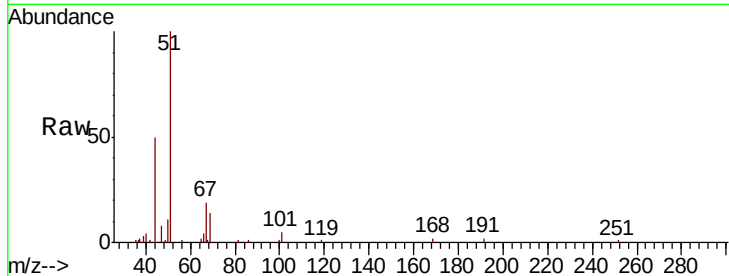
51 100

67 18.7 16.8 25.2

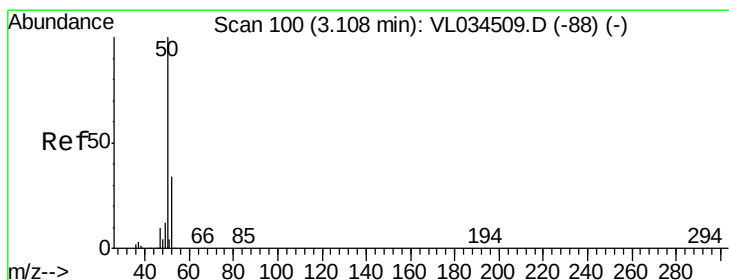
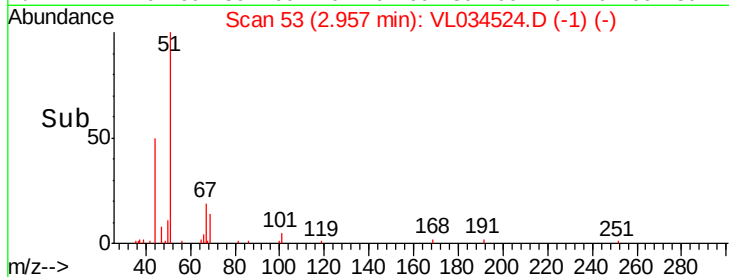
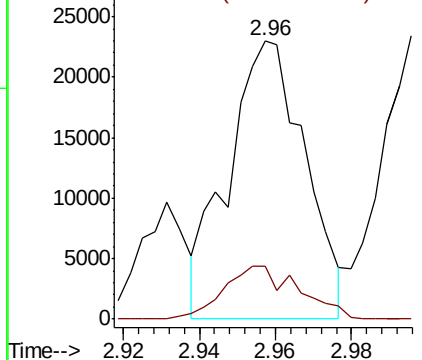
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Abundance Ion 51.00 (50.70 to 51.70): VL0
Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.116 ppbv

RT: 3.11 min Scan# 100

Delta R.T. -0.00 min

Lab File: VL034524.D

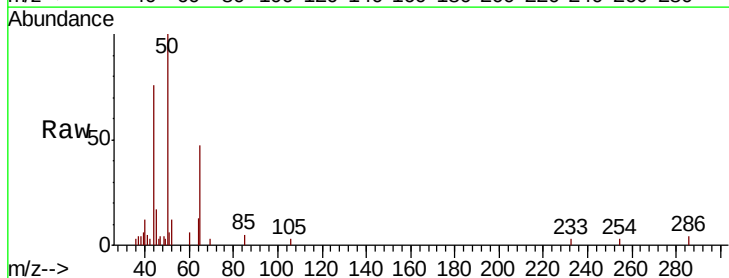
Acq: 30 Dec 2019 23:09

Tgt Ion: 50 Resp: 7439

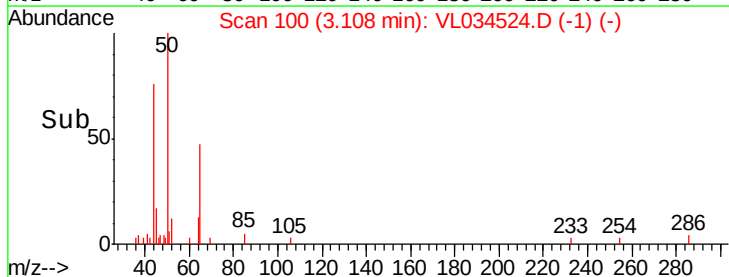
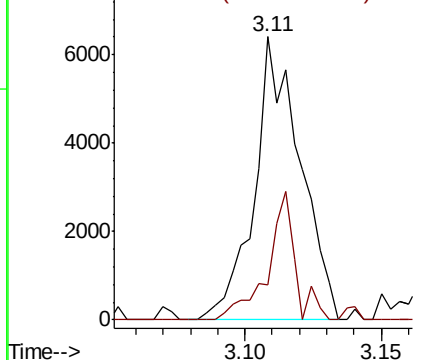
Ion Ratio Lower Upper

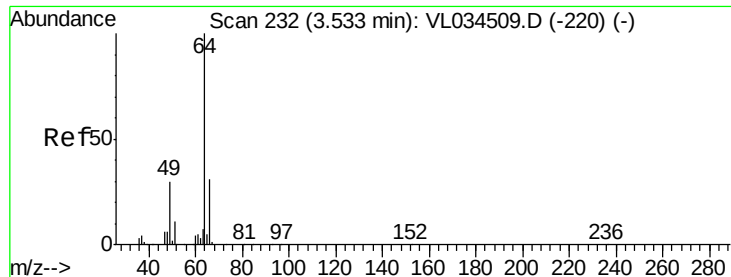
50 100

52 11.7 27.6 41.4#



Abundance Ion 50.10 (49.80 to 50.80): VL0
Ion 52.10 (51.80 to 52.80): VL0





#7

Chloroethane

Concen: 1.093 ppbv

RT: 3.53 min Scan# 232

Delta R.T. -0.00 min

Lab File: VL034524.D

Acq: 30 Dec 2019 23:09

Instrument :

MSVOA_L

ClientSampleId :

INFLUENT

Tot Ion: 64 Resp: 24019

Ion Ratio Lower Upper

64 100

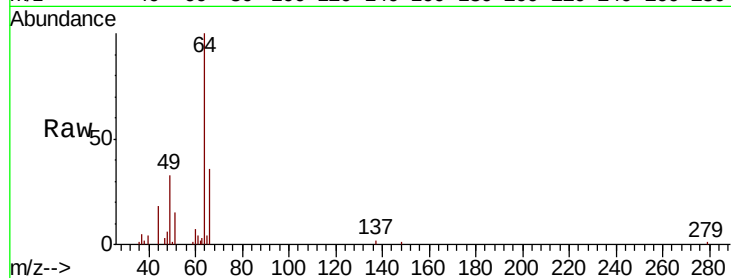
66 36.3 25.0 37.4

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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.53

20000

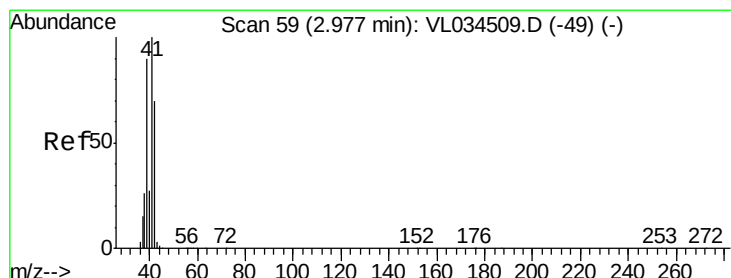
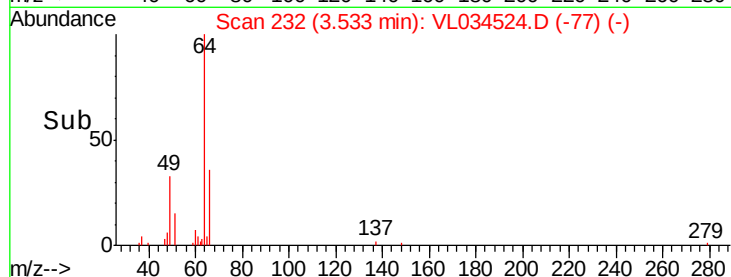
15000

10000

5000

0

Time-->



#9

Propene

Concen: 0.765 ppbv m

RT: 2.99 min Scan# 62

Delta R.T. 0.01 min

Lab File: VL034524.D

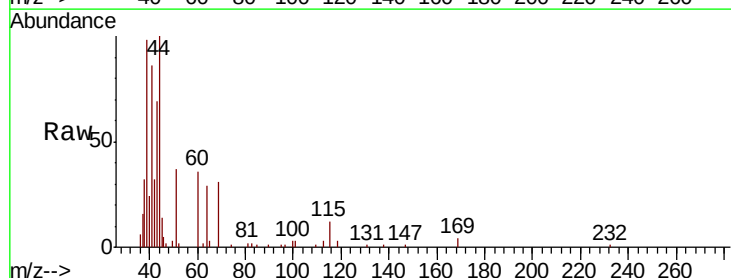
Acq: 30 Dec 2019 23:09

Tgt Ion: 41 Resp: 31985

Ion Ratio Lower Upper

41 100

42 69.8 55.8 83.6



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

2.99

25000

20000

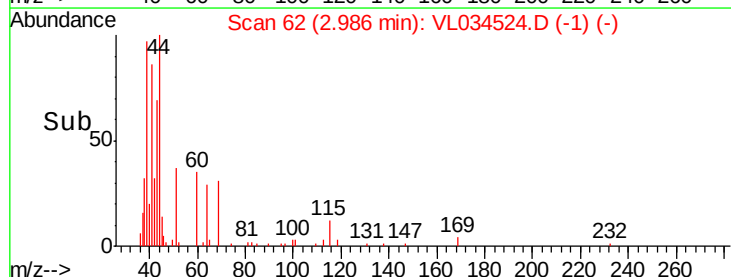
15000

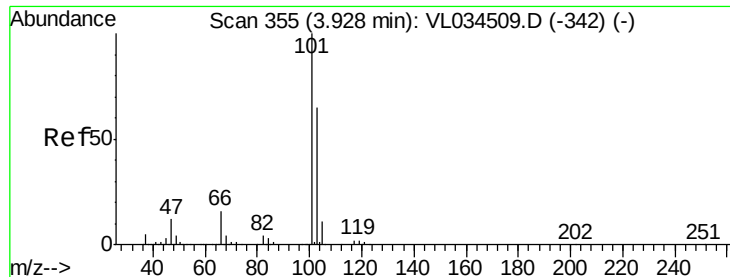
10000

5000

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Time-->





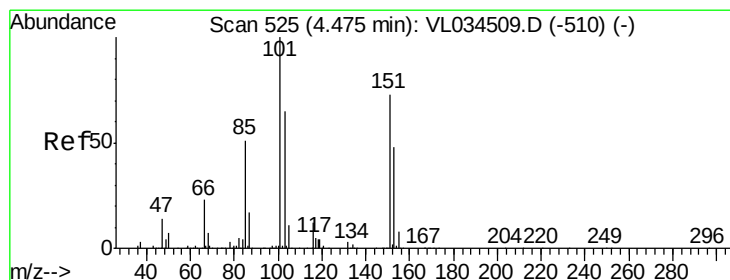
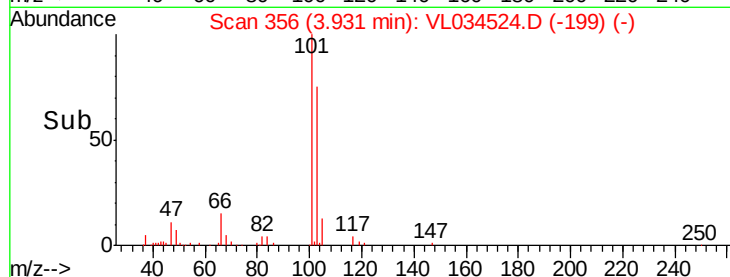
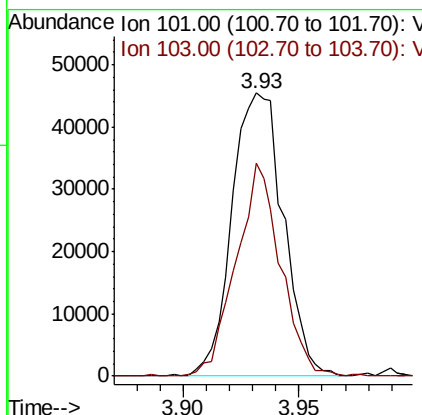
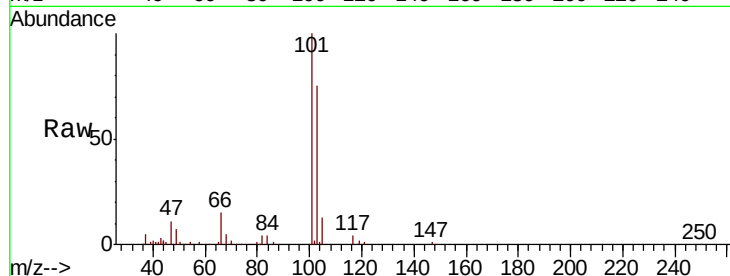
#11
 Trichlorofluoromethane
 Concen: 0.420 ppbv
 RT: 3.93 min Scan# 356
 Delta R.T. 0.00 min
 Lab File: VL034524.D
 Acq: 30 Dec 2019 23:09

Instrument :
 MSVOA_L
 ClientSampleId :
 INFLUENT

Tot Ion	Ratio	Lower	Upper
101	100		
103	74.7	52.1	78.1

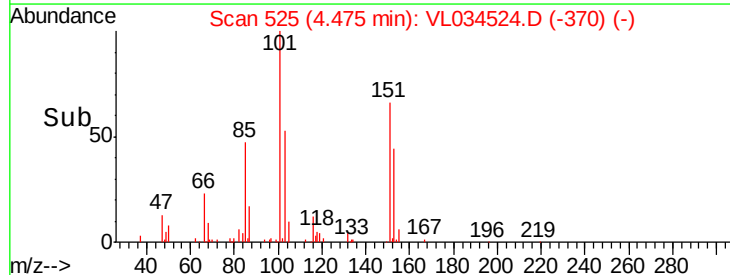
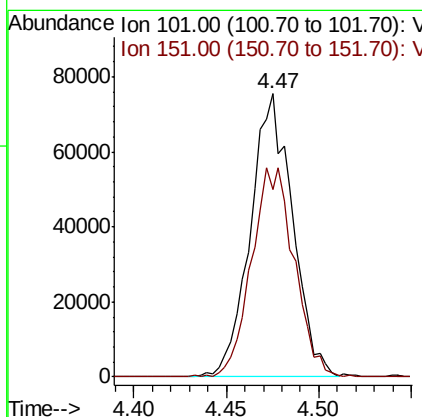
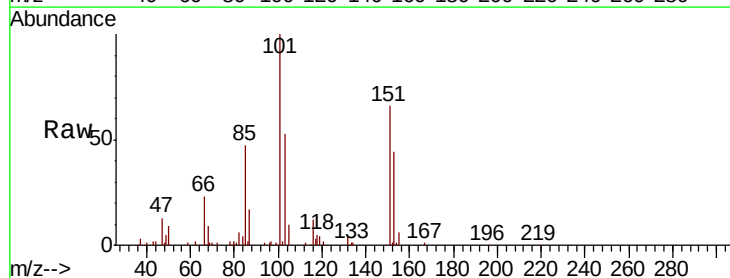
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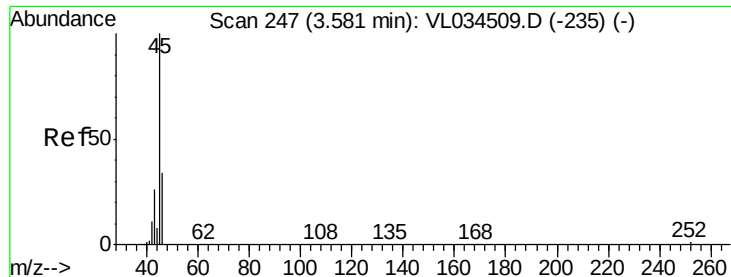
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 1.134 ppbv
 RT: 4.47 min Scan# 525
 Delta R.T. -0.00 min
 Lab File: VL034524.D
 Acq: 30 Dec 2019 23:09

Tgt Ion	Ratio	Lower	Upper
101	100		
151	74.7	57.8	86.6





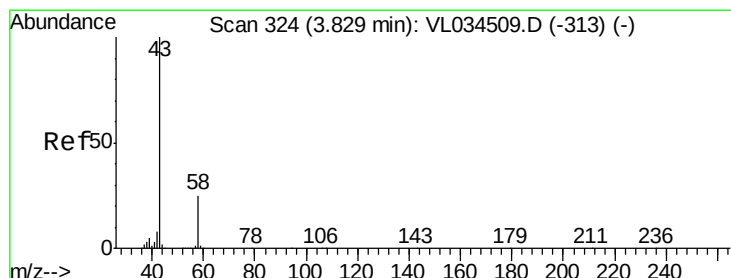
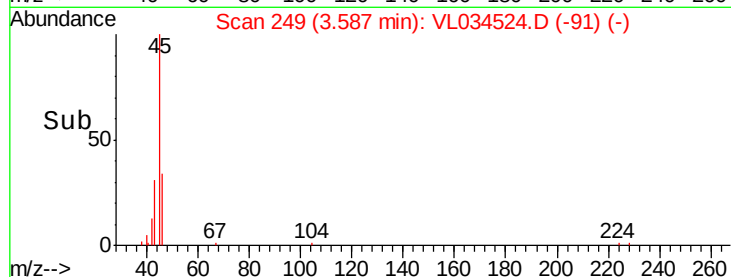
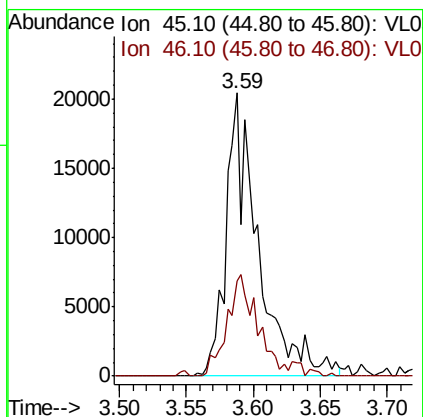
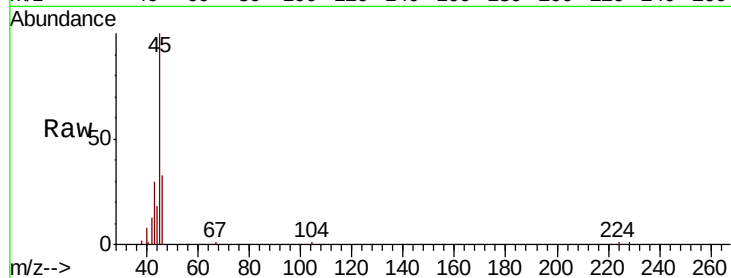
#13
Ethanol
Concen: 2.916 ppbv m
RT: 3.59 min Scan# 249
Delta R.T. 0.01 min
Lab File: VL034524.D
Acq: 30 Dec 2019 23:09

Instrument :
MSVOA_L
ClientSampleId :
INFLUENT

Tot Ion: 45 Resp: 33817
Ion Ratio Lower Upper
45 100
46 0.0 14.9 59.7#

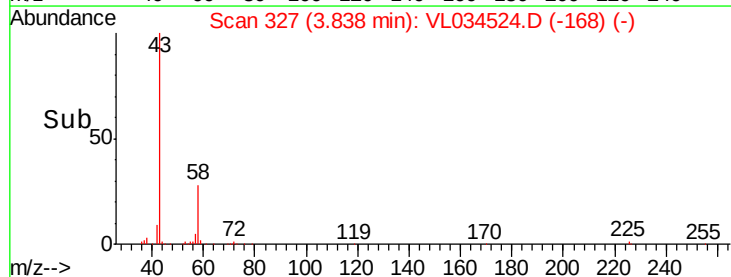
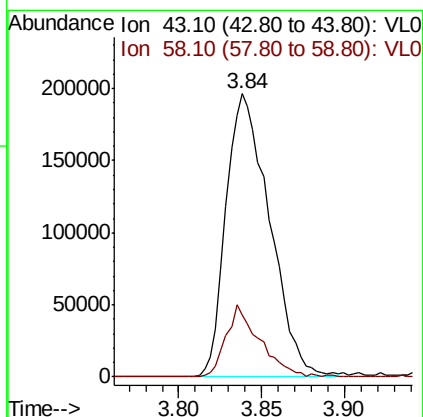
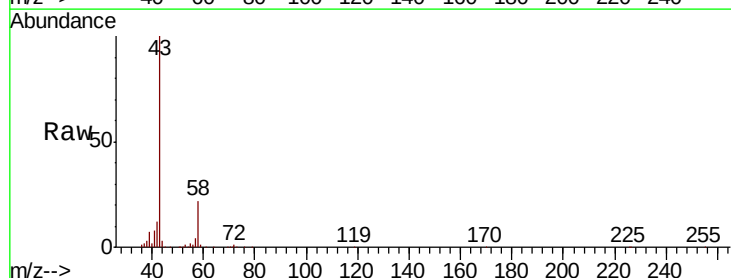
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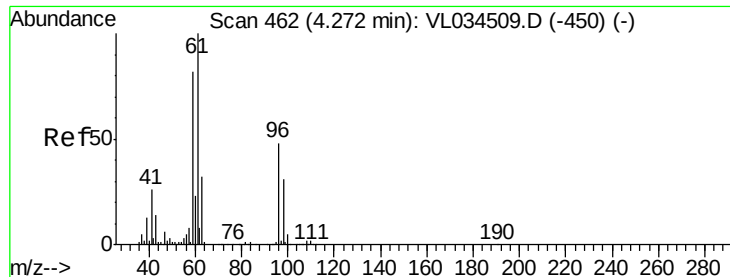
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#15
Acetone
Concen: 2.703 ppbv
RT: 3.84 min Scan# 327
Delta R.T. 0.01 min
Lab File: VL034524.D
Acq: 30 Dec 2019 23:09

Tgt Ion: 43 Resp: 358968
Ion Ratio Lower Upper
43 100
58 19.9 20.4 30.6#





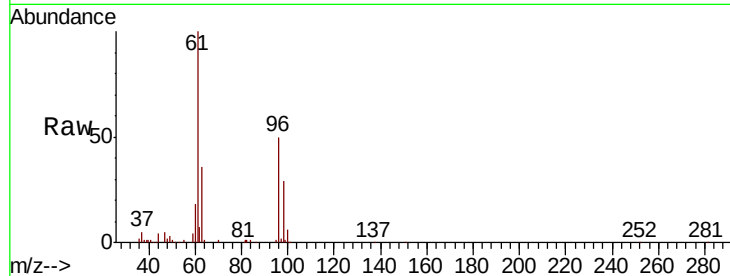
#18
 1,1-Dichloroethene
 Concen: 1.576 ppbv
 RT: 4.28 min Scan# 464
 Delta R.T. 0.01 min
 Lab File: VL034524.D
 Acq: 30 Dec 2019 23:09

Instrument :
 MSVOA_L
 ClientSampled :
 INFLUENT

Tot Ion	Ratio	Lower	Upper
96	100		
61	198.4	165.9	248.9
98	57.6	51.9	77.9

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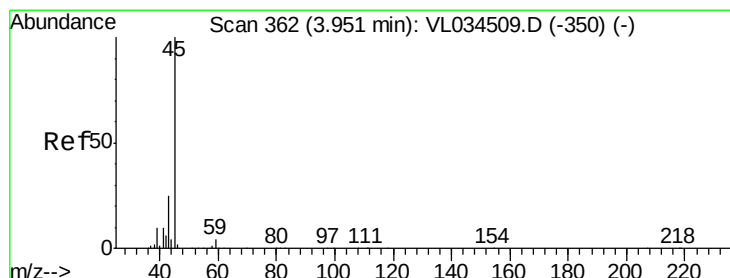
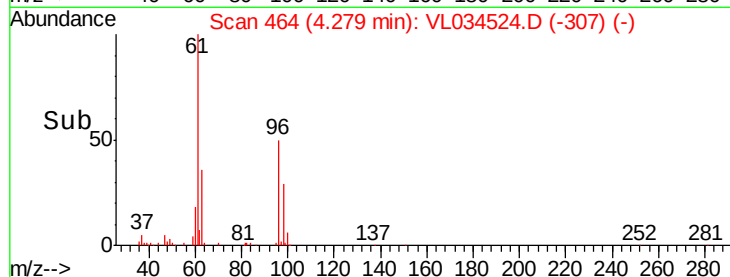
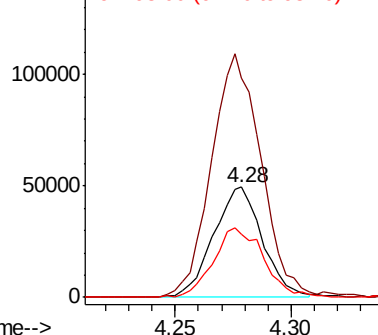


Abundance

Ion 96.00 (95.70 to 96.70): VL0

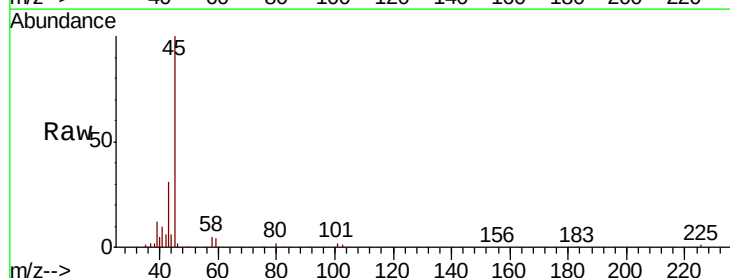
Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#19
 Isopropyl Alcohol
 Concen: 1.162 ppbv
 RT: 3.96 min Scan# 365
 Delta R.T. 0.01 min
 Lab File: VL034524.D
 Acq: 30 Dec 2019 23:09

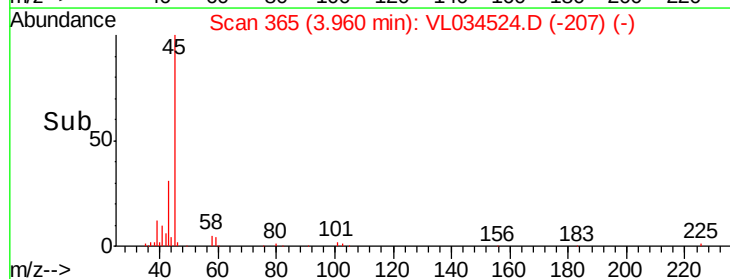
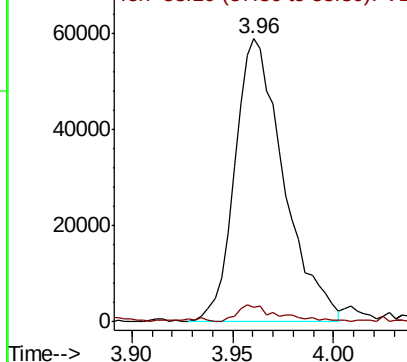
Tgt Ion	Ratio	Lower	Upper
45	100		
58	6.1	1.4	2.0#

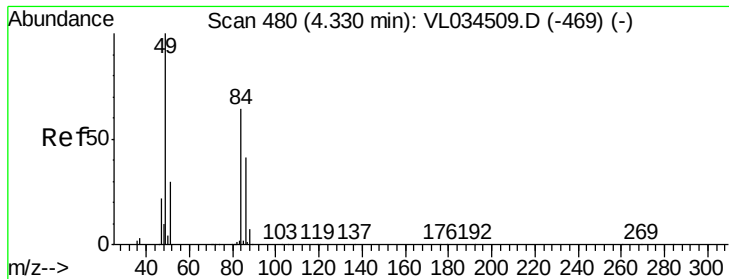


Abundance

Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#20

Methylene Chloride

Concen: 0.664 ppbv

RT: 4.33 min Scan# 481

Delta R.T. 0.00 min

Lab File: VL034524.D

Acq: 30 Dec 2019 23:09

Instrument :

MSVOA_L

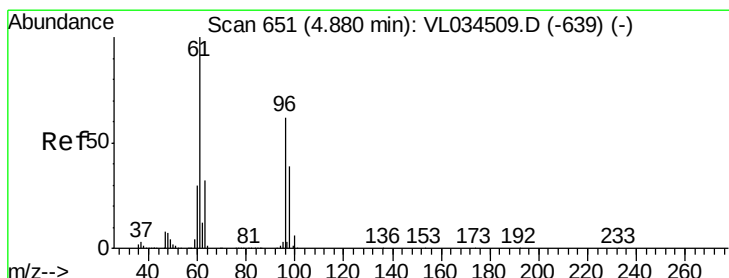
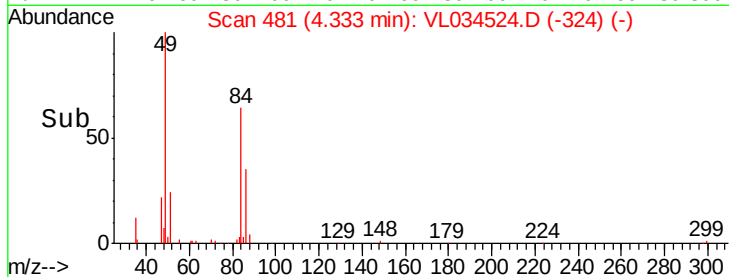
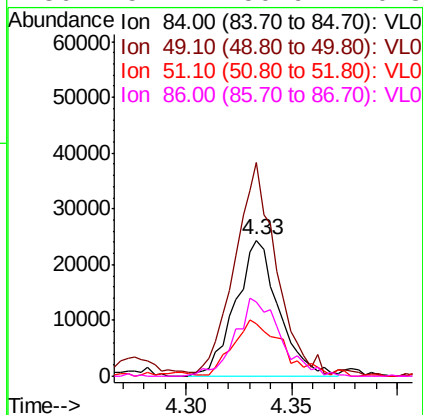
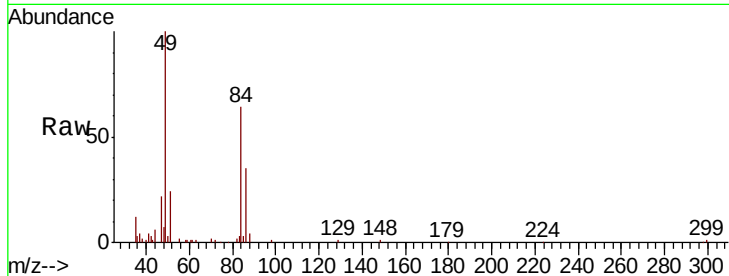
ClientSampled :

INFLUENT

Tot Ion:	84	Resp:	34700
Ion	Ratio	Lower	Upper
84	100		
49	154.4	124.4	186.6
51	36.4	37.0	55.6#
86	54.1	50.9	76.3

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#22

trans-1,2-Dichloroethene

Concen: 0.267 ppbv

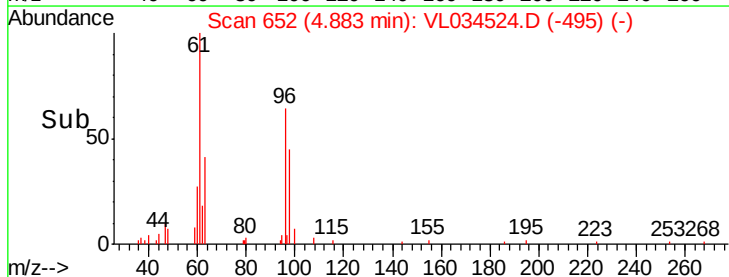
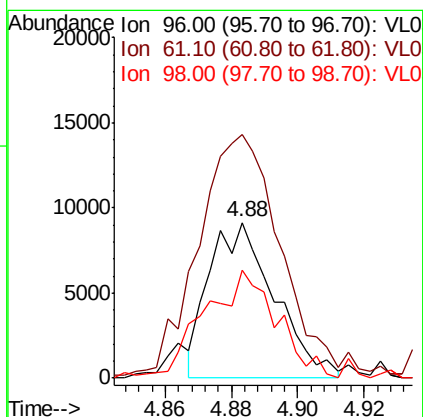
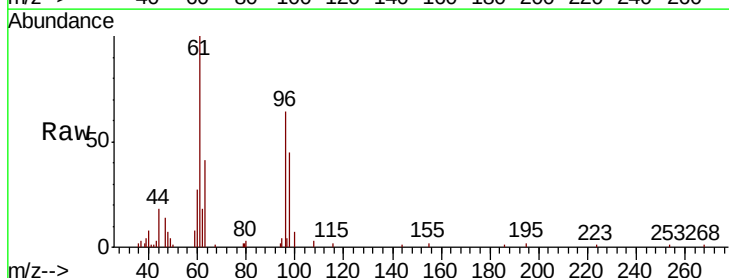
RT: 4.88 min Scan# 652

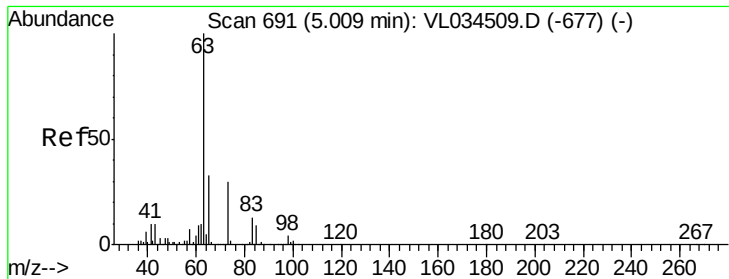
Delta R.T. 0.00 min

Lab File: VL034524.D

Acq: 30 Dec 2019 23:09

Tgt Ion:	96	Resp:	12516
Ion	Ratio	Lower	Upper
96	100		
61	150.9	128.4	192.6
98	72.8	50.6	75.8





#24

1,1-Dichloroethane

Concen: 11.920 ppbv

RT: 5.01 min Scan# 690

Delta R.T. -0.00 min

Lab File: VL034524.D

Acq: 30 Dec 2019 23:09

Instrument :

MSVOA_L

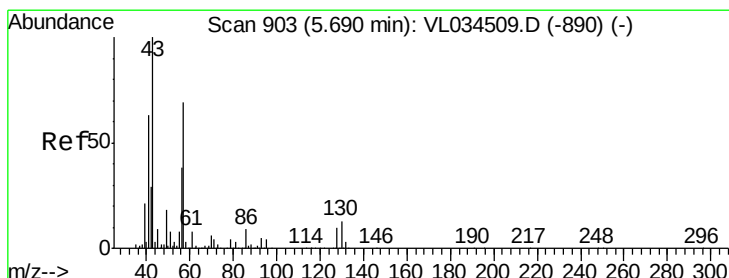
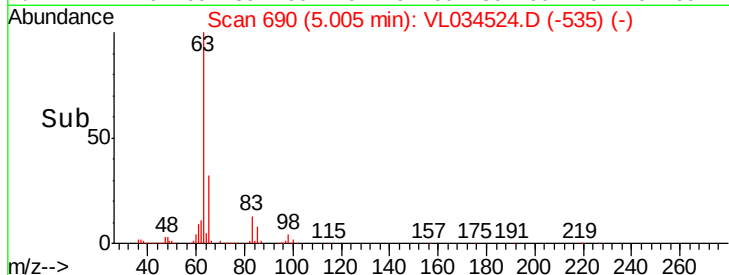
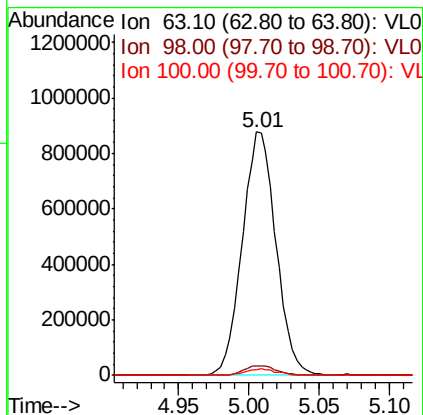
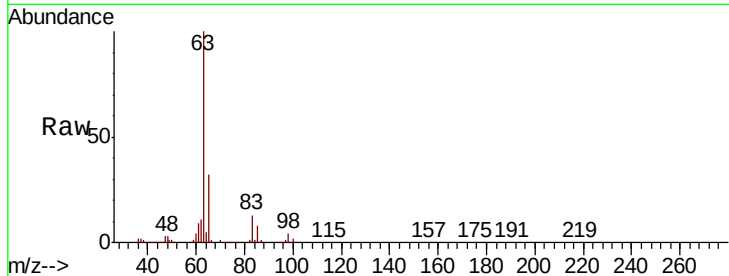
ClientSampled :

INFLUENT

Tot Ion:	63	Resp:	1468078
Ion	Ratio	Lower	Upper
63	100		
98	4.1	2.1	6.3
100	2.4	1.1	3.3

Manual Integrations
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#26

Hexane

Concen: 0.357 ppbv

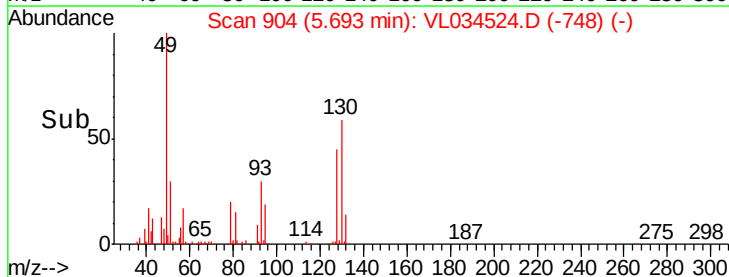
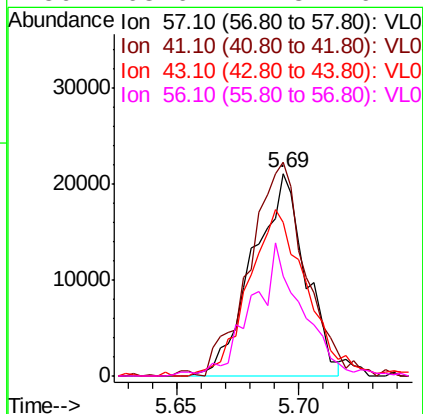
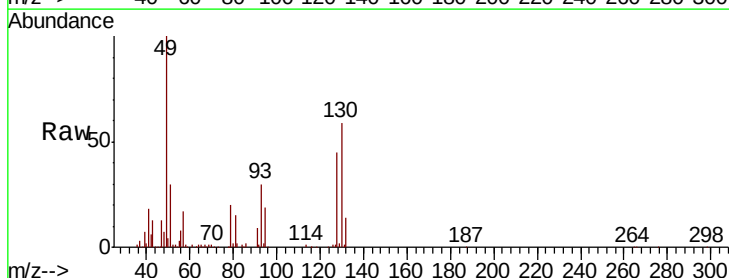
RT: 5.69 min Scan# 904

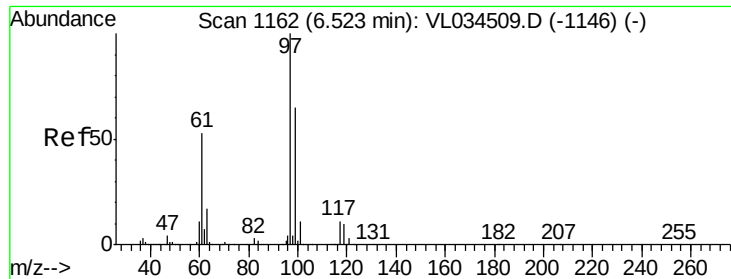
Delta R.T. 0.00 min

Lab File: VL034524.D

Acq: 30 Dec 2019 23:09

Tgt Ion:	57	Resp:	31236
Ion	Ratio	Lower	Upper
57	100		
41	116.3	75.3	112.9#
43	93.2	189.4	284.2#
56	63.6	42.8	64.2





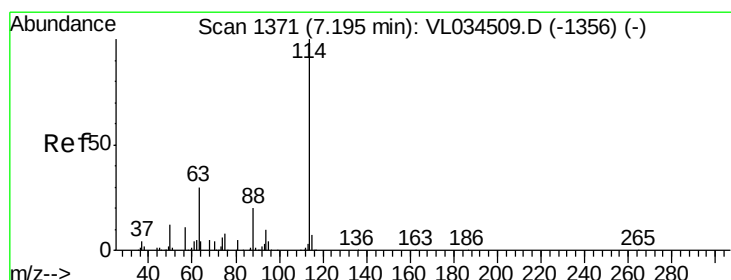
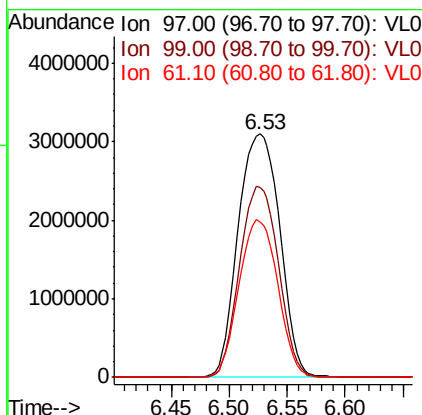
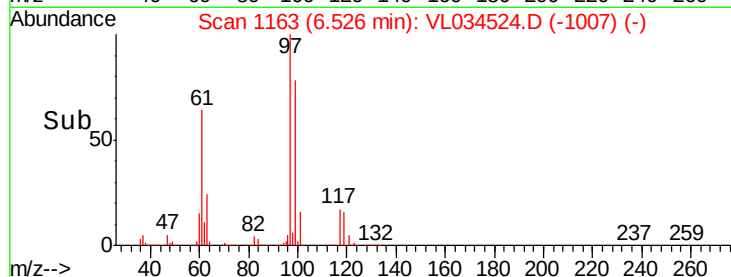
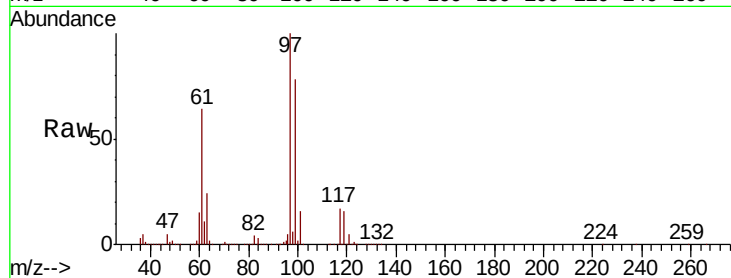
#32
 1,1,1-Trichloroethane
 Concen: 49.467 ppbv
 RT: 6.53 min Scan# 1163
 Delta R.T. 0.00 min
 Lab File: VL034524.D
 Acq: 30 Dec 2019 23:09

Instrument :
 MSVOA_L
 ClientSampleId :
 INFLUENT

Tot Ion	Ratio	Lower	Upper
97	100		
99	73.3	51.7	77.5
61	60.4	42.9	64.3

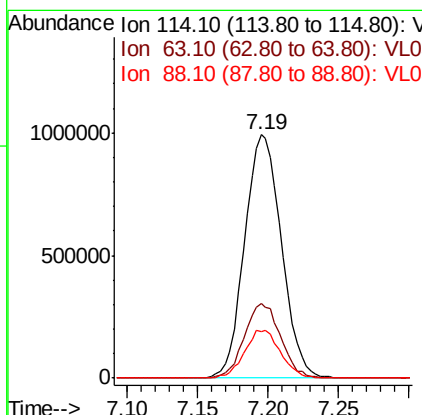
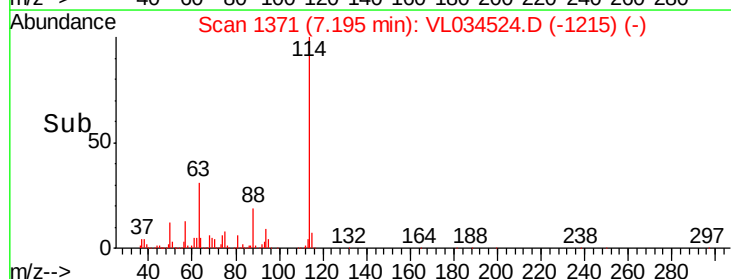
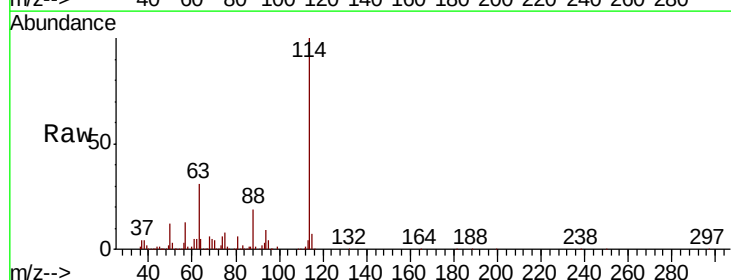
Manual Integrations
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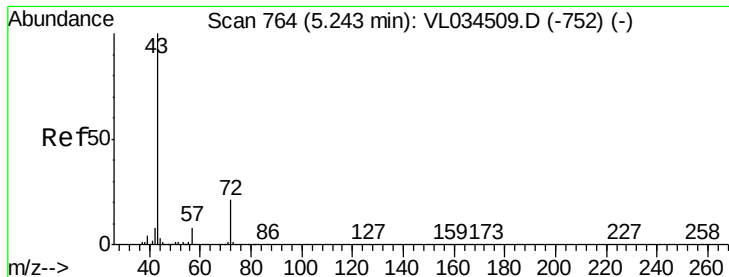
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#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1371
 Delta R.T. -0.00 min
 Lab File: VL034524.D
 Acq: 30 Dec 2019 23:09

Tgt Ion	Ratio	Lower	Upper
114	100		
63	30.2	24.1	36.1
88	19.4	15.7	23.5





#34

2-Butanone

Concen: 0.186 ppbv m

RT: 5.25 min Scan# 767

Delta R.T. 0.01 min

Lab File: VL034524.D

Acq: 30 Dec 2019 23:09

Instrument :

MSVOA_L

ClientSampleId :

INFLUENT

Tot Ion: 43 Resp: 24152

Ion Ratio Lower Upper

43 100

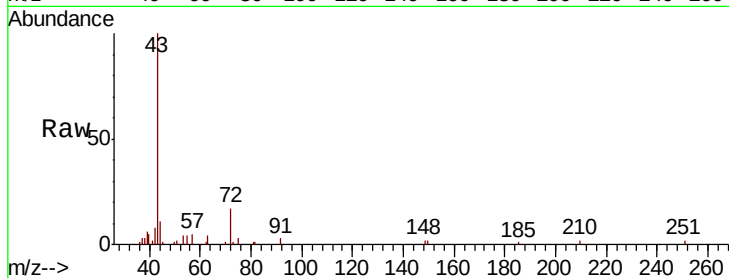
72 23.5 17.0 25.4

Manual Integrations

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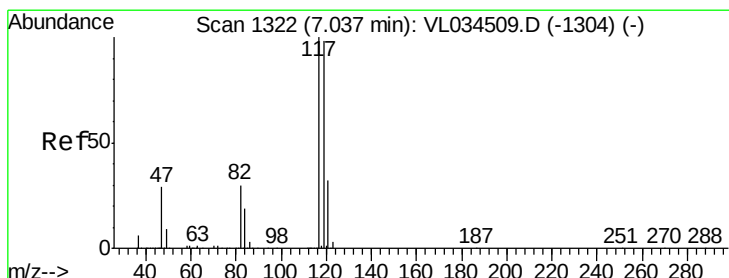
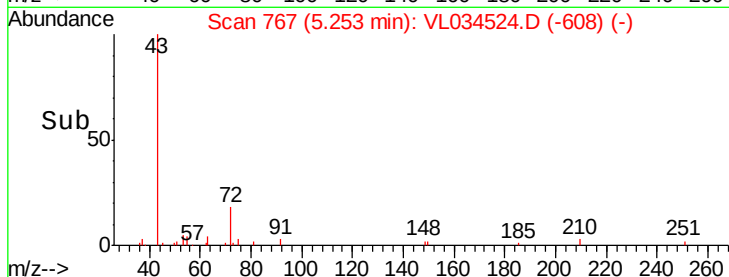
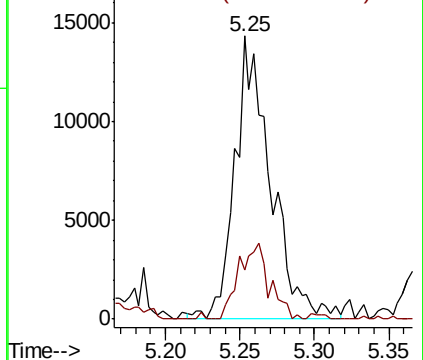
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



#35

Carbon Tetrachloride

Concen: 0.068 ppbv m

RT: 7.03 min Scan# 1321

Delta R.T. -0.00 min

Lab File: VL034524.D

Acq: 30 Dec 2019 23:09

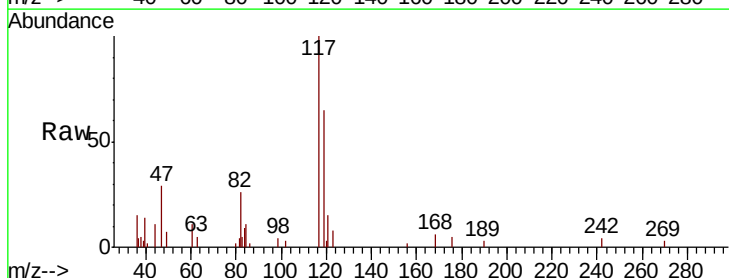
Tgt Ion: 117 Resp: 11162

Ion Ratio Lower Upper

117 100

119 64.6 78.7 118.1#

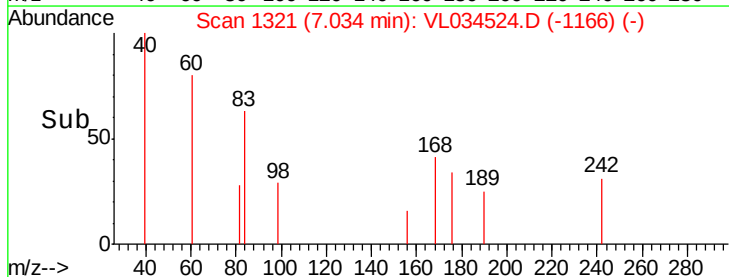
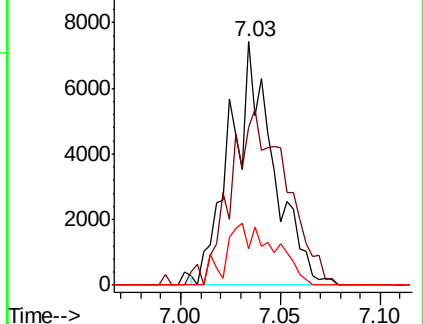
121 14.7 25.9 38.9#

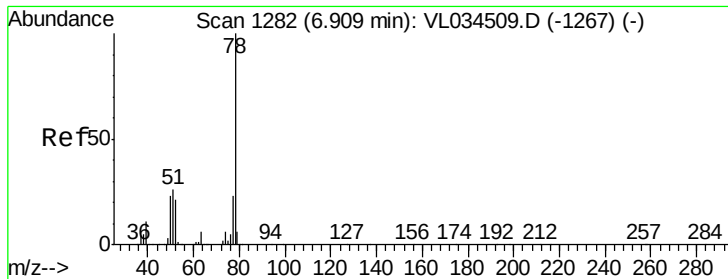


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V





#36

Benzene

Concen: 0.204 ppbv

RT: 6.91 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VL034524.D

Acq: 30 Dec 2019 23:09

Instrument :

MSVOA_L

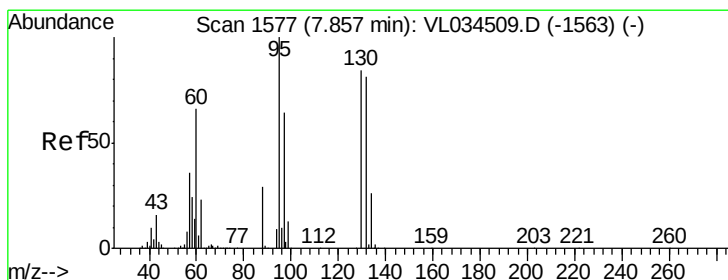
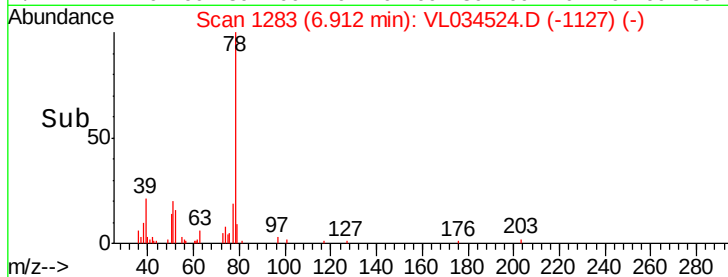
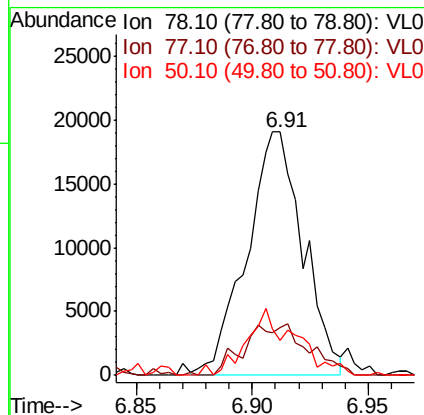
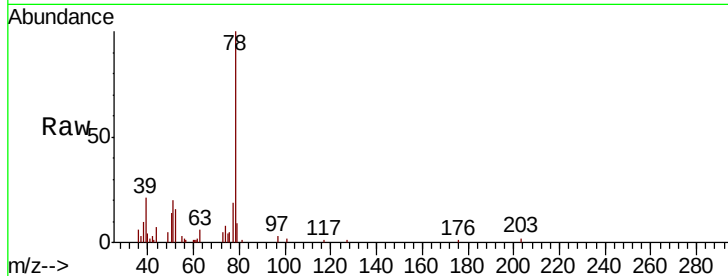
ClientSampleId :

INFLUENT

Tot Ion:	78	Resp:	32373
Ion	Ratio	Lower	Upper
78	100		
77	18.4	18.6	28.0#
50	14.4	18.8	28.2#

Manual Integrations
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#38

Trichloroethene

Concen: 0.312 ppbv m

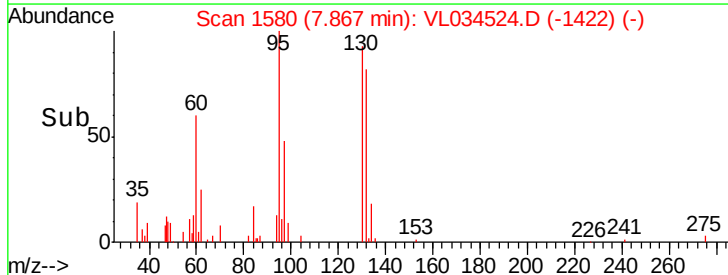
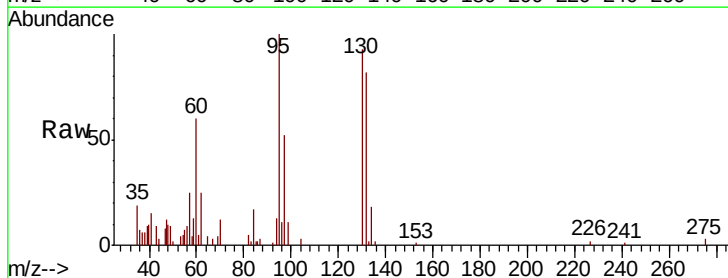
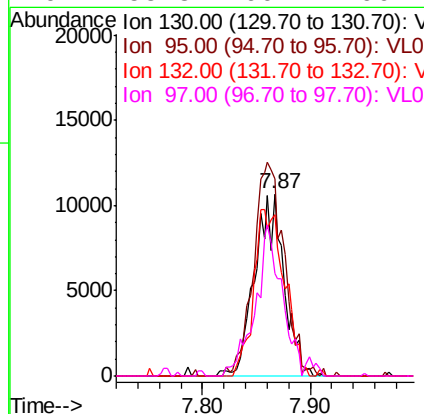
RT: 7.87 min Scan# 1580

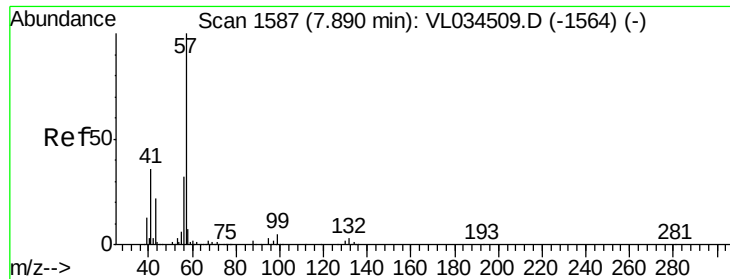
Delta R.T. 0.01 min

Lab File: VL034524.D

Acq: 30 Dec 2019 23:09

Tgt Ion:	130	Resp:	19968
Ion	Ratio	Lower	Upper
130	100		
95	107.8	94.2	141.2
132	88.1	76.1	114.1
97	55.8	60.2	90.2#





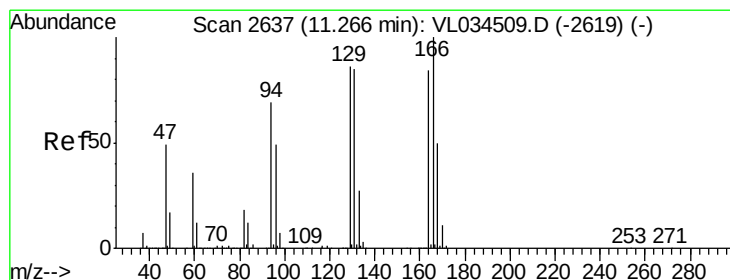
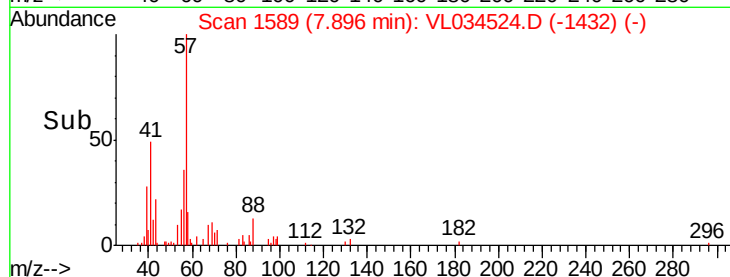
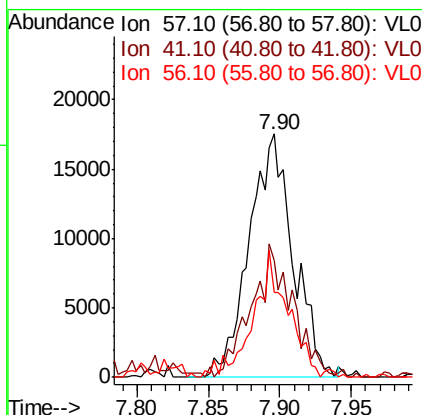
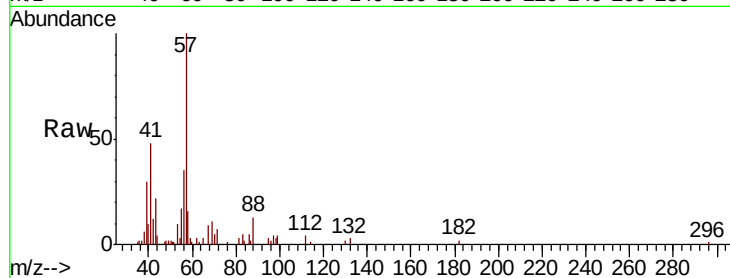
#44
 2,2,4-Trimethylpentane
 Concen: 0.128 ppbv m
 RT: 7.90 min Scan# 1589
 Delta R.T. 0.01 min
 Lab File: VL034524.D
 Acq: 30 Dec 2019 23:09

Instrument :
 MSVOA_L
 ClientSampleId :
 INFLUENT

Tot Ion	Ratio	Lower	Upper
57	100		
41	0.0	29.0	43.4#
56	0.0	24.9	37.3#

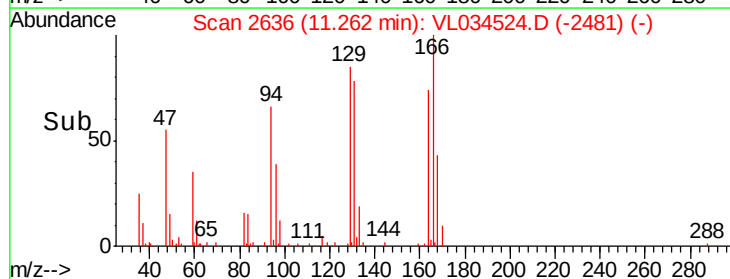
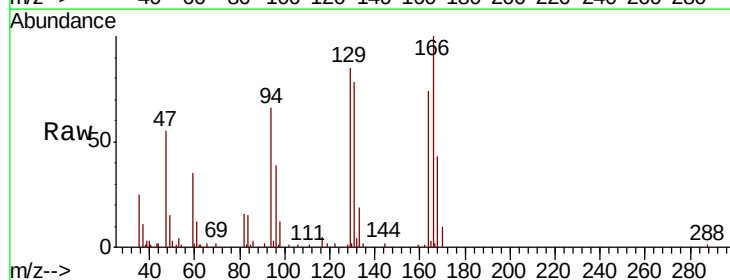
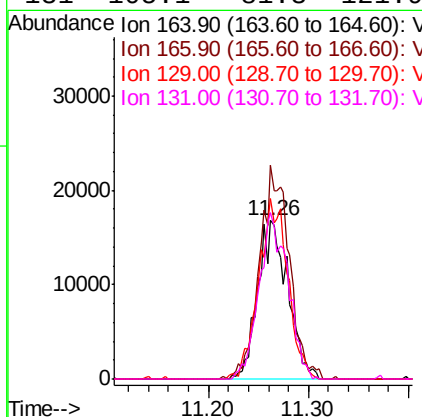
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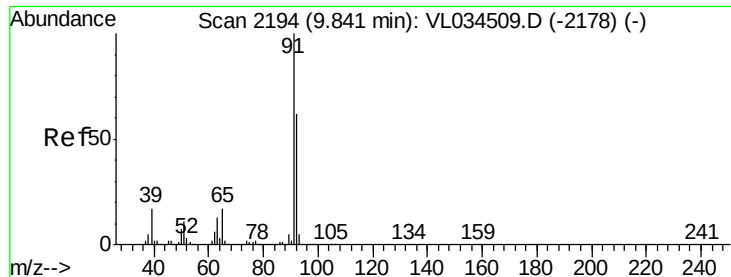
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#52
 Tetrachloroethene
 Concen: 0.570 ppbv m
 RT: 11.26 min Scan# 2636
 Delta R.T. -0.00 min
 Lab File: VL034524.D
 Acq: 30 Dec 2019 23:09

Tgt Ion	Ratio	Lower	Upper
164	100		
166	134.9	95.7	143.5
129	114.4	82.2	123.2
131	105.1	81.3	121.9





#53

Toluene

Concen: 0.796 ppbv

RT: 9.84 min Scan# 2194

Delta R.T. -0.00 min

Lab File: VL034524.D

Acq: 30 Dec 2019 23:09

Instrument :

MSVOA_L

ClientSampleId :

INFLUENT

Tot Ion: 91 Resp: 138448

Ion Ratio Lower Upper

91 100

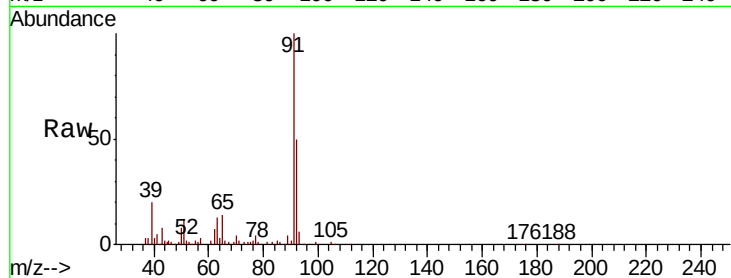
92 59.4 48.4 72.6

Manual Integrations

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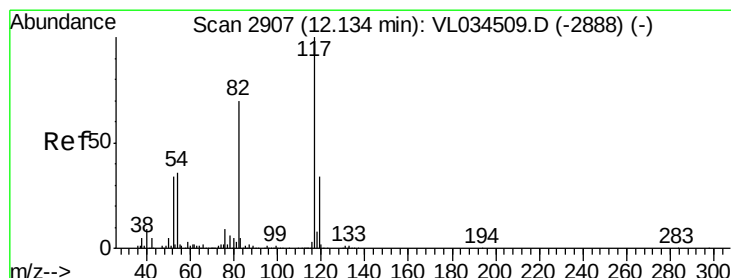
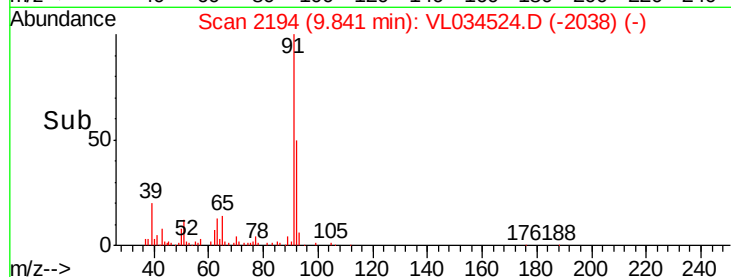
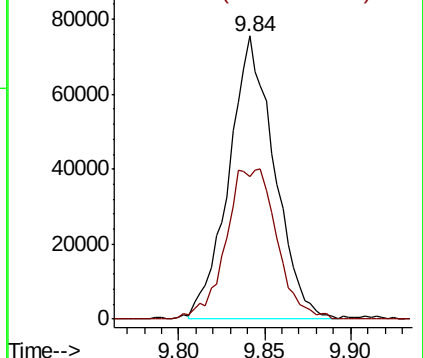
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.13 min Scan# 2907

Delta R.T. -0.00 min

Lab File: VL034524.D

Acq: 30 Dec 2019 23:09

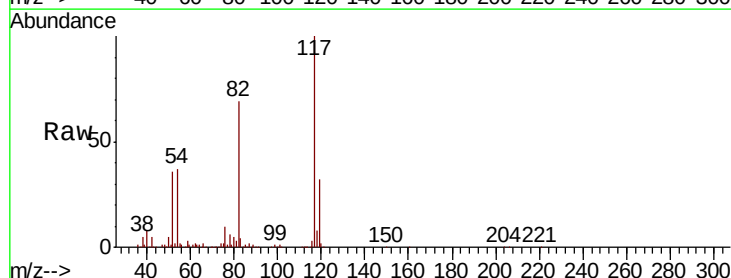
Tgt Ion: 117 Resp: 1811816

Ion Ratio Lower Upper

117 100

82 70.8 56.2 84.4

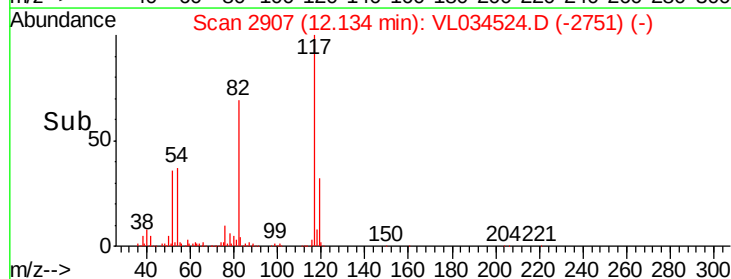
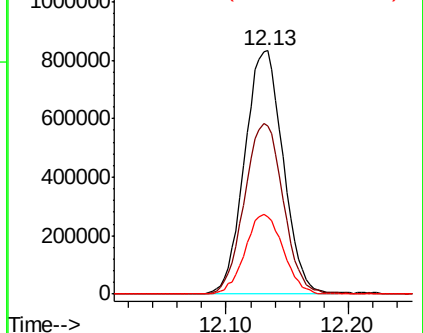
119 32.5 27.1 40.7

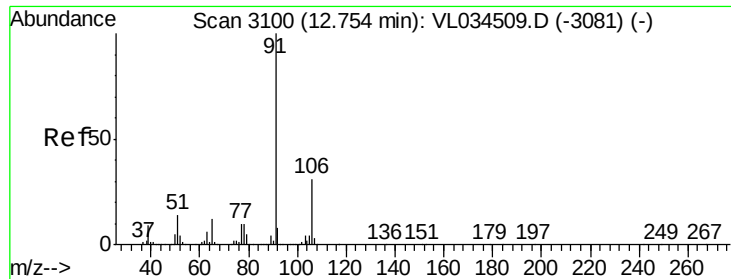


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





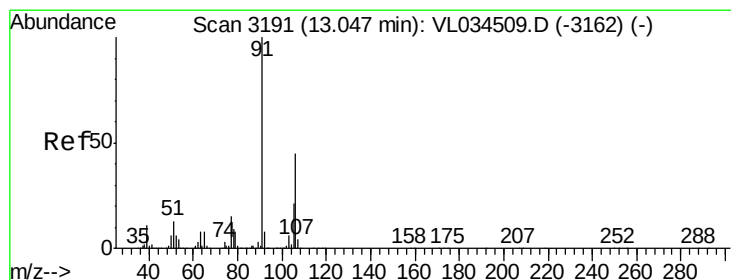
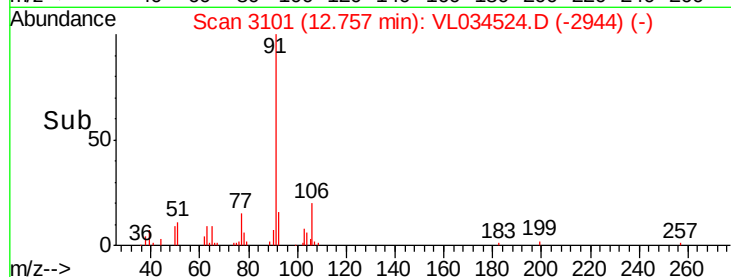
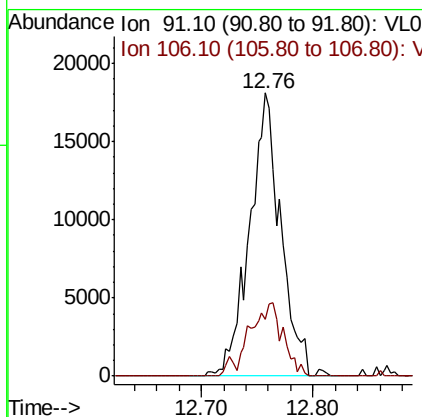
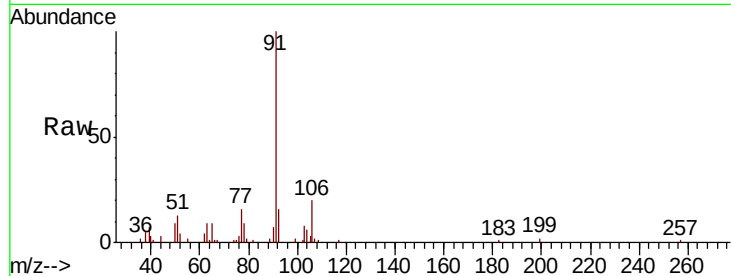
#58
Ethyl Benzene
Concen: 0.144 ppbv m
RT: 12.76 min Scan# 3101
Delta R.T. 0.00 min
Lab File: VL034524.D
Acq: 30 Dec 2019 23:09

Instrument :
MSVOA_L
ClientSampleId :
INFLUENT

Tot Ion: 91 Resp: 35064
Ion Ratio Lower Upper
91 100
106 20.2 24.6 36.8#

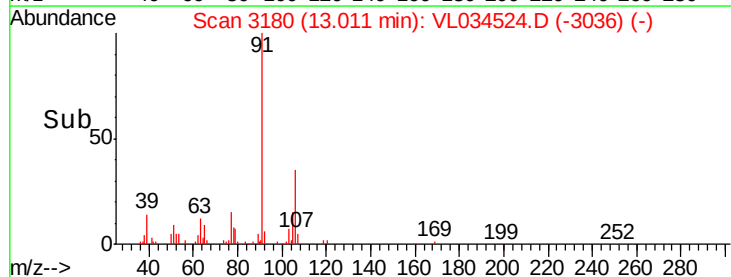
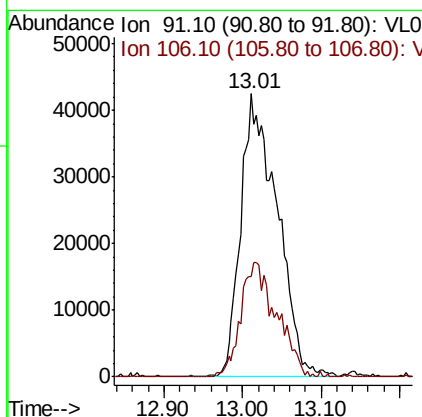
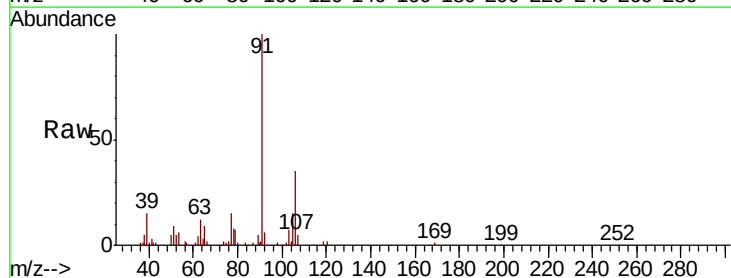
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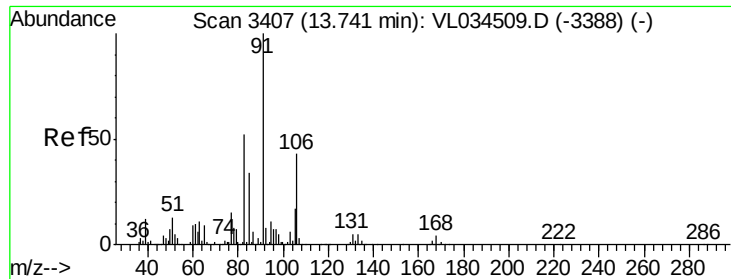
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#59
m/p-Xylene
Concen: 0.633 ppbv m
RT: 13.01 min Scan# 3180
Delta R.T. -0.04 min
Lab File: VL034524.D
Acq: 30 Dec 2019 23:09

Tgt Ion: 91 Resp: 135271
Ion Ratio Lower Upper
91 100
106 0.0 35.6 53.4#





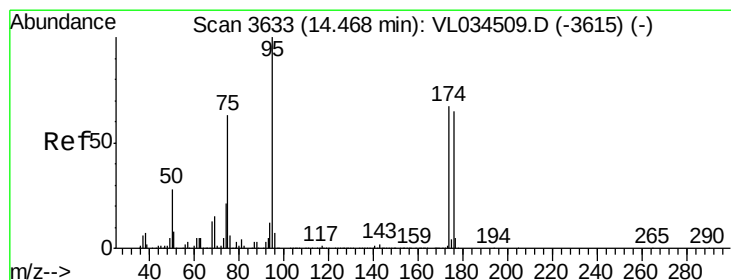
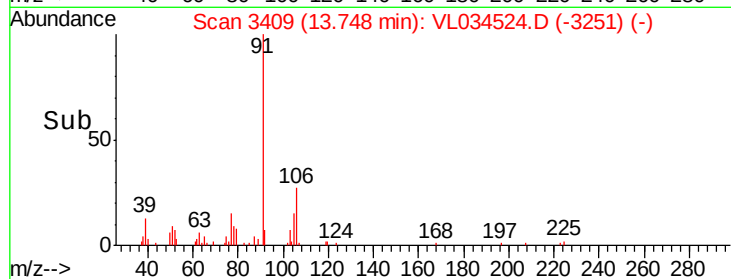
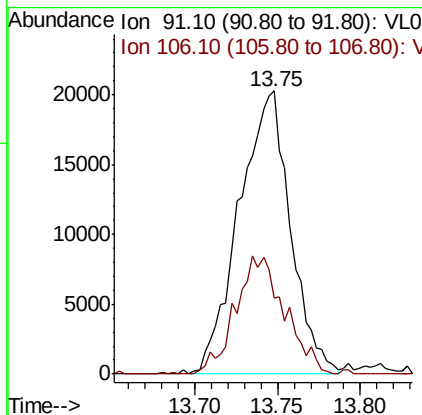
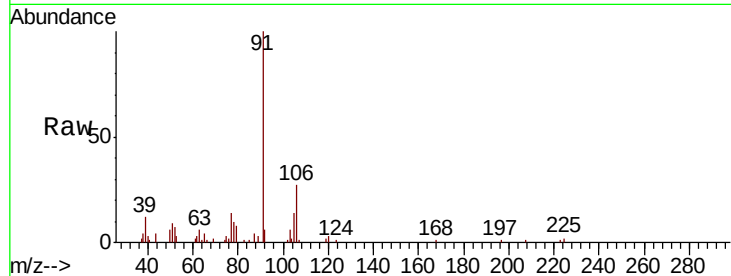
#60
o-Xylene
Concen: 0.204 ppbv
RT: 13.75 min Scan# 3409
Delta R.T. 0.01 min
Lab File: VL034524.D
Acq: 30 Dec 2019 23:09

Instrument :
MSVOA_L
ClientSampleId :
INFLUENT

Tot Ion: 91 Resp: 43737
Ion Ratio Lower Upper
91 100
106 40.3 21.4 64.3

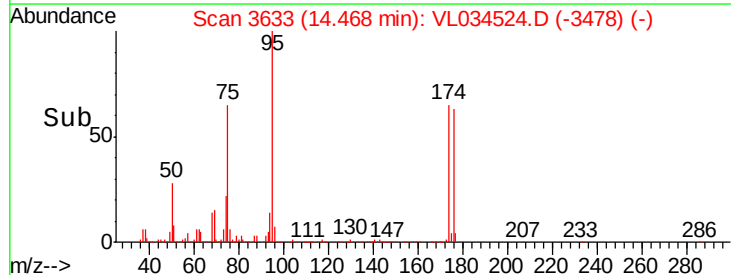
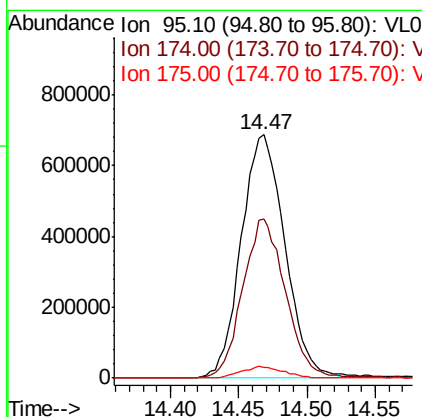
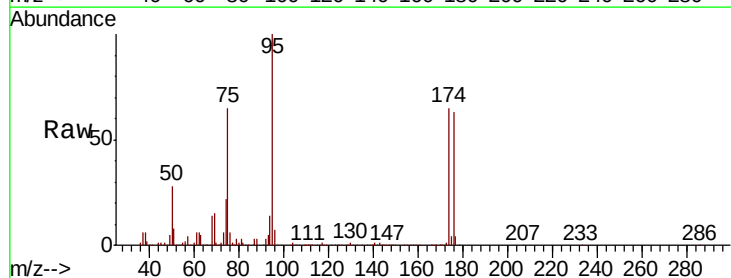
Manual Integrations
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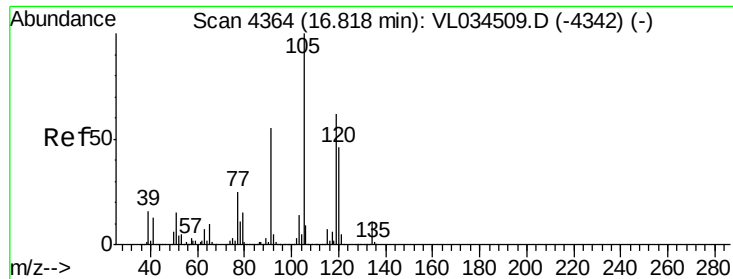
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.094 ppbv
RT: 14.47 min Scan# 3633
Delta R.T. -0.00 min
Lab File: VL034524.D
Acq: 30 Dec 2019 23:09

Tgt Ion: 95 Resp: 1526160
Ion Ratio Lower Upper
95 100
174 64.7 52.4 78.6
175 4.8 3.9 5.9





#74
 1,2,4-Trimethylbenzene
 Concen: 0.113 ppbv
 RT: 16.82 min Scan# 4365
 Delta R.T. 0.00 min
 Lab File: VL034524.D
 Acq: 30 Dec 2019 23:09

Instrument :
 MSVOA_L
 ClientSampleId :
 INFLUENT

Tot Ion:	105	Resp:	28547
Ion Ratio	Lower	Upper	
105	100		
120	48.4	36.7	55.1
91	13.7	44.0	66.0#
77	8.4	19.9	29.9#

Manual Integrations
 APPROVED

apatel
 1/2/2020 10:49:43 AM

