

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080118\
 Data File : VL032338.D
 Acq On : 2 Aug 2018 1:19
 Operator : SY/AP
 Sample : J4258-02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-1

Manual Integrations
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Quant Time: Aug 02 02:33:02 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL072718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul 27 2018
 QLast Update : Fri Jul 27 07:05:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.86	49	1809062	10.00	ppbv	0.03
33) 1,4-Difluorobenzene	7.40	114	4665787	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.33	117	4628648	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.67	95	3593200	10.00	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.12	85	94469	0.43	ppbv	97
3) Chlorodifluoromethane	3.05	51	64340m	0.36	ppbv	
4) Chloromethane	3.22	50	138301	1.26	ppbv	98
9) Propene	3.08	41	14143242	173.90	ppbv	96
10) Heptane	8.32	43	2614634	9.16	ppbv	97
11) Trichlorofluoromethane	4.06	101	61696	0.30	ppbv	95
13) Ethanol	3.75	45	3644423	155.92	ppbv	99
15) Acetone	3.95	43	38270180m	224.45	ppbv	
26) Hexane	5.85	57	2171119	12.54	ppbv #	1
27) Carbon Disulfide	4.68	76	2701502	17.16	ppbv	99
30) Cyclohexane	7.32	84	716701m	5.31	ppbv	
34) 2-Butanone	5.41	43	34895707m	115.55	ppbv	
35) Carbon Tetrachloride	7.23	117	17038m	0.06	ppbv	
36) Benzene	7.10	78	5130941	12.48	ppbv	99
44) 2,2,4-Trimethylpentane	8.08	57	2598978	2.91	ppbv #	72
51) 2-Hexanone	10.36	43	22336972	55.01	ppbv #	85
52) Tetrachloroethene	11.47	164	21679m	0.16	ppbv	
53) Toluene	10.04	91	2258638	4.59	ppbv	99
58) Ethyl Benzene	12.95	91	729081	1.26	ppbv	97
59) m/p-Xylene	13.21	91	2095473	4.24	ppbv	99
60) o-Xylene	13.93	91	849759	1.75	ppbv	99
61) Styrene	13.78	104	115865	0.33	ppbv	99
62) Isopropylbenzene	14.91	105	86974m	0.13	ppbv	
69) p-Isopropyltoluene	17.90	119	169847	0.25	ppbv	98
72) 4-Ethyltoluene	16.08	105	114833m	0.21	ppbv	
73) 1,3,5-Trimethylbenzene	16.24	105	223956	0.42	ppbv	96
74) 1,2,4-Trimethylbenzene	17.01	105	583962	1.04	ppbv #	71
76) 1,4-Dichlorobenzene	17.39	146	69319m	0.22	ppbv	
79) Naphthalene	22.50	128	985546	2.02	ppbv	99
80) Naphthalene,2-methyl-	25.18	142	133269	0.69	ppbv	97

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

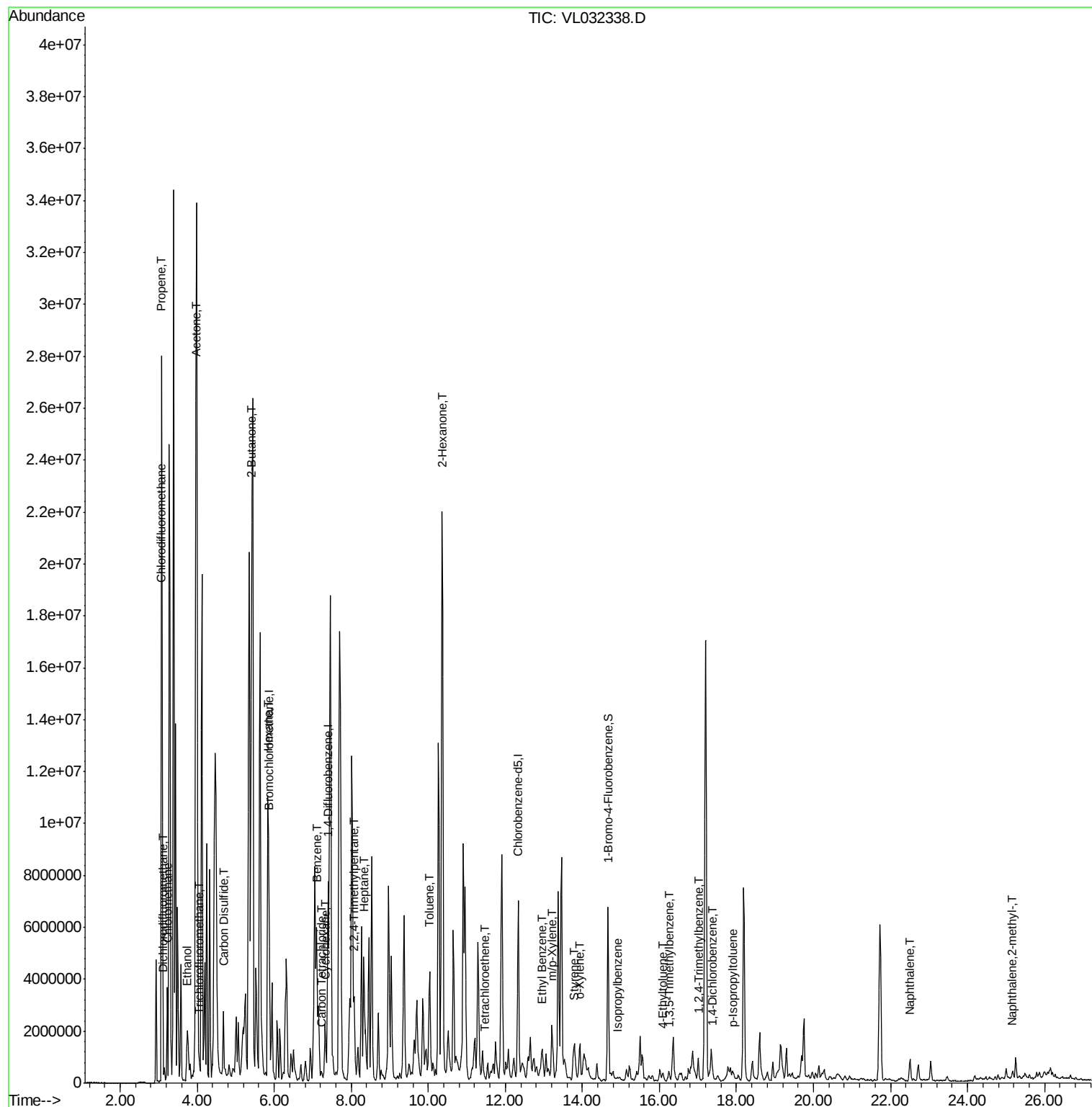
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080118\
Data File : VL032338.D
Acq On : 2 Aug 2018 1:19
Operator : SY/AP
Sample : J4258-02
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

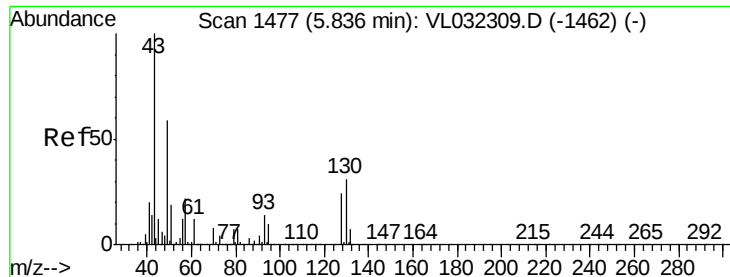
Instrument :
MSVOA_L
ClientSampleId :
SV-1

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Quant Time: Aug 02 02:33:02 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL072718AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jul
QLast Update : Fri Jul 27 07:05:37 2018
Response via : Initial Calibration





#1

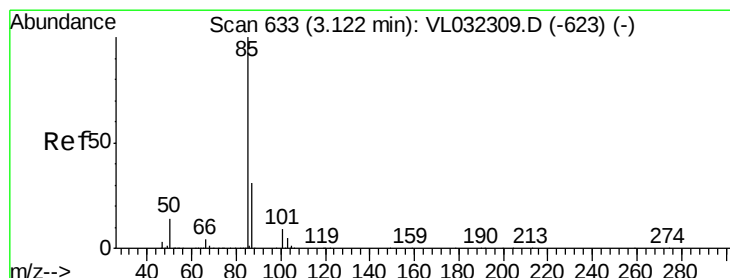
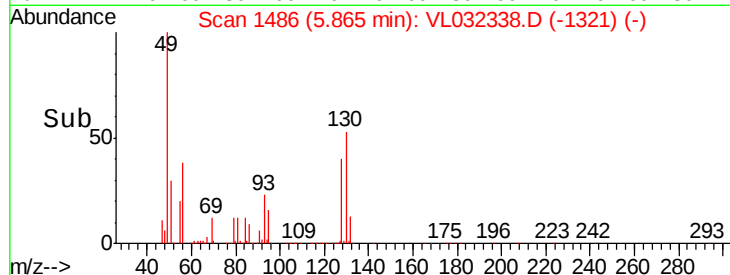
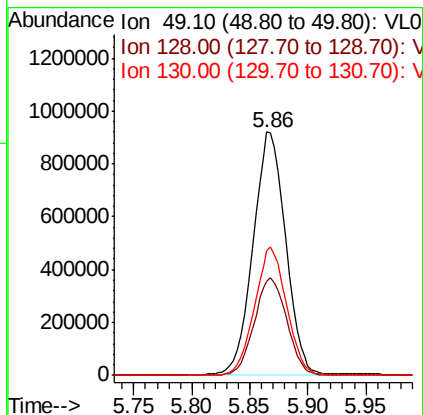
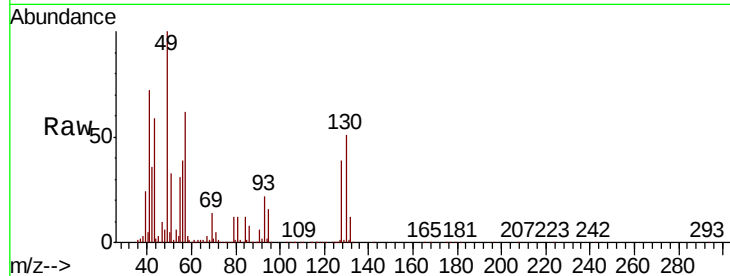
Bromochloromethane
 Concen: 10.00 ppbv
 RT: 5.86 min Scan# 1486
 Delta R.T. 0.03 min
 Lab File: VL032338.D
 Acq: 2 Aug 2018 1:19

Instrument :
 MSVOA_L
 ClientSampled :
 SV-1

Tot Ion: 49 Resp: 1809062
 Ion Ratio Lower Upper
 49 100
 128 39.9 20.2 60.6
 130 51.5 25.8 77.3

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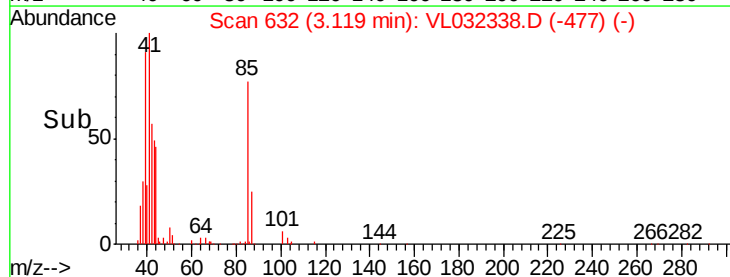
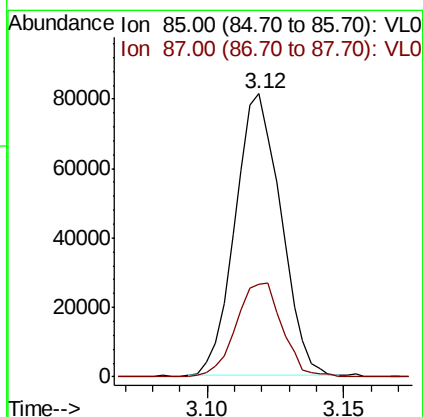
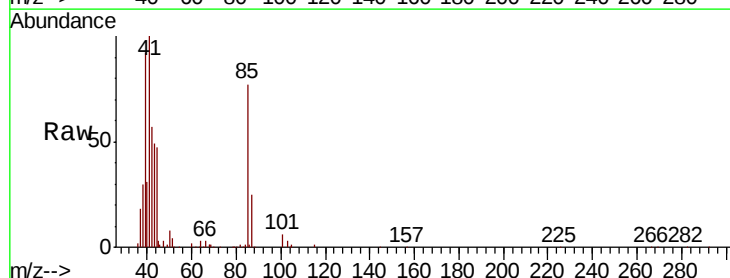
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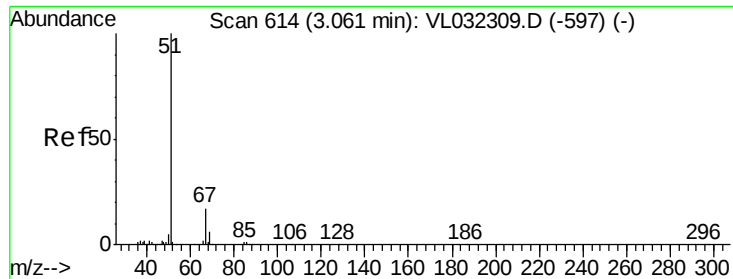


#2

Dichlorodifluoromethane
 Concen: 0.43 ppbv
 RT: 3.12 min Scan# 632
 Delta R.T. -0.00 min
 Lab File: VL032338.D
 Acq: 2 Aug 2018 1:19

Tgt Ion: 85 Resp: 94469
 Ion Ratio Lower Upper
 85 100
 87 33.1 25.2 37.8





#3

Chlorodifluoromethane

Concen: 0.36 ppbv m

RT: 3.05 min Scan# 612

Delta R.T. -0.01 min

Lab File: VL032338.D

Acq: 2 Aug 2018 1:19

Instrument :

MSVOA_L

ClientSampleId :

SV-1

Tot Ion: 51 Resp: 64340

Ion Ratio Lower Upper

51 100

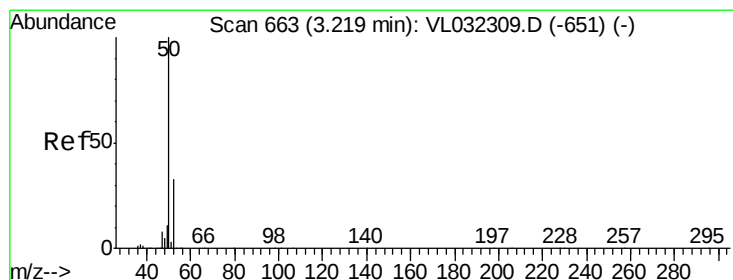
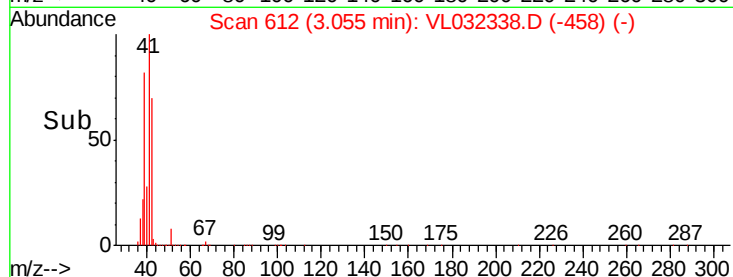
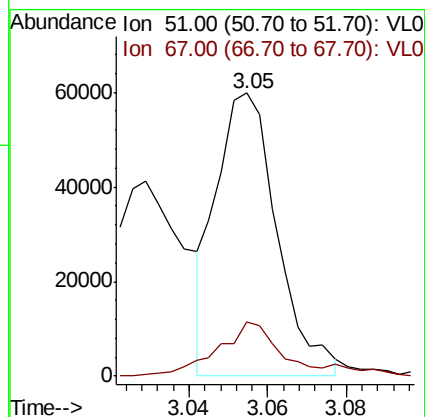
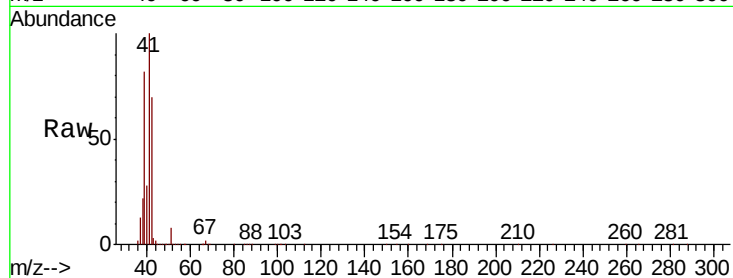
67 21.8 13.5 20.3#

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#4

Chloromethane

Concen: 1.26 ppbv

RT: 3.22 min Scan# 662

Delta R.T. -0.00 min

Lab File: VL032338.D

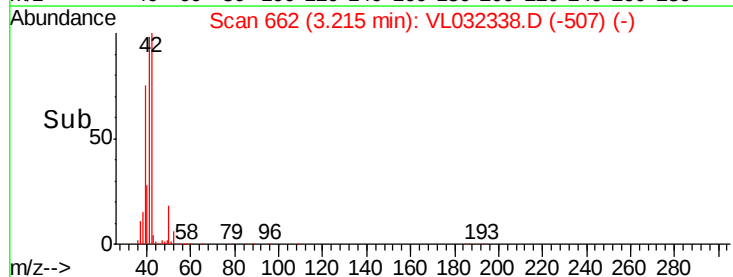
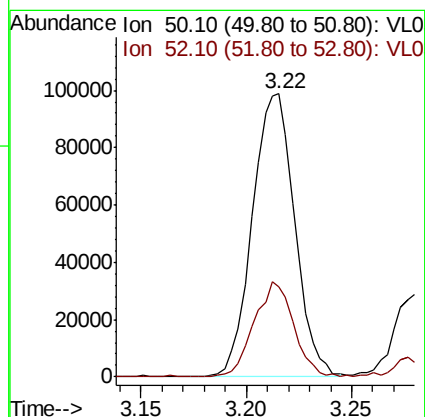
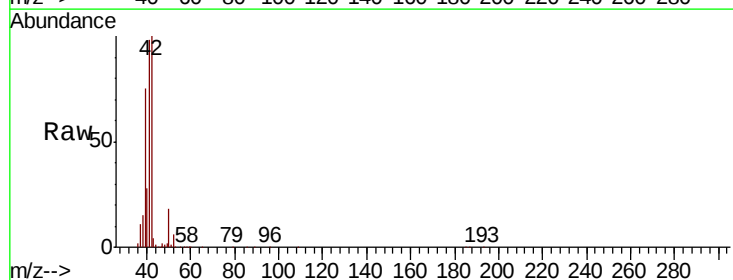
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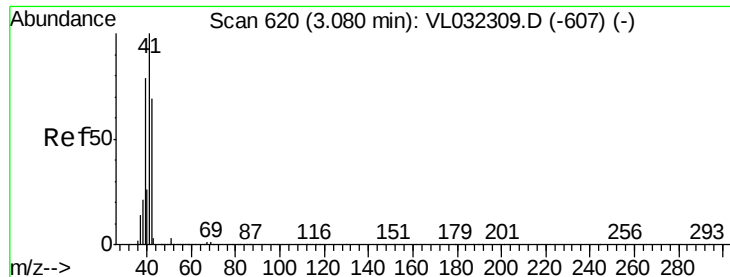
Tgt Ion: 50 Resp: 138301

Ion Ratio Lower Upper

50 100

52 31.9 26.2 39.4





#9

Propene

Concen: 173.90 ppbv

RT: 3.08 min Scan# 619

Delta R.T. -0.00 min

Lab File: VL032338.D

Acq: 2 Aug 2018 1:19

Instrument :

MSVOA_L

ClientSampled :

SV-1

Tot Ion: 41 Resp:14143242

Ion Ratio Lower Upper

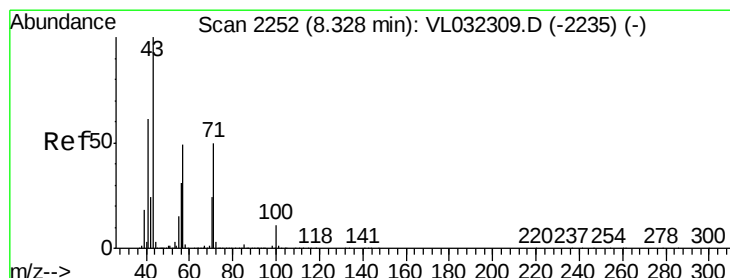
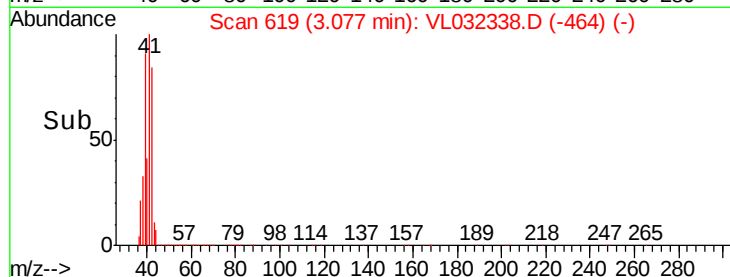
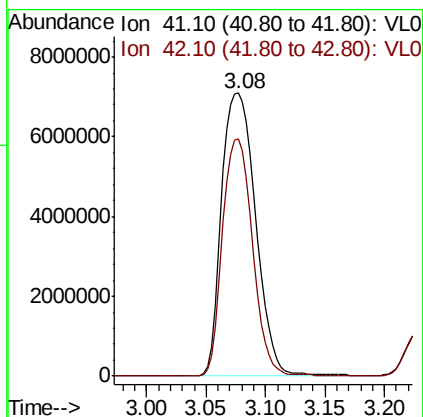
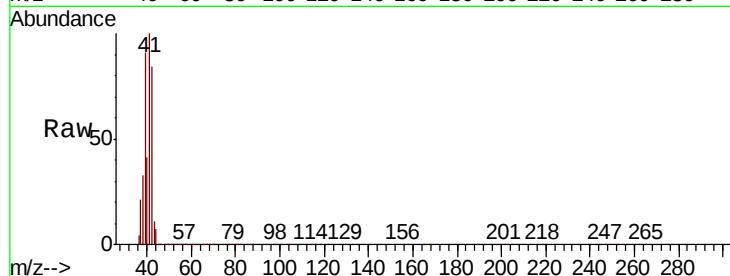
41 100

42 74.0 56.8 85.2

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#10

Heptane

Concen: 9.16 ppbv

RT: 8.32 min Scan# 2251

Delta R.T. -0.00 min

Lab File: VL032338.D

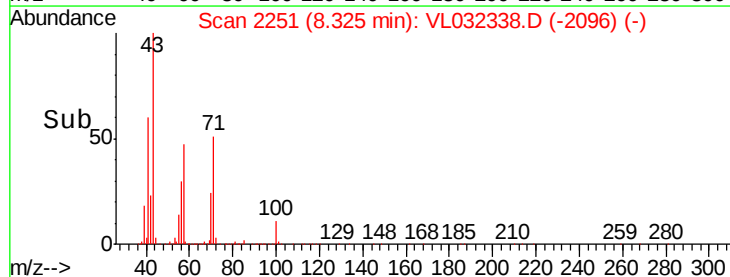
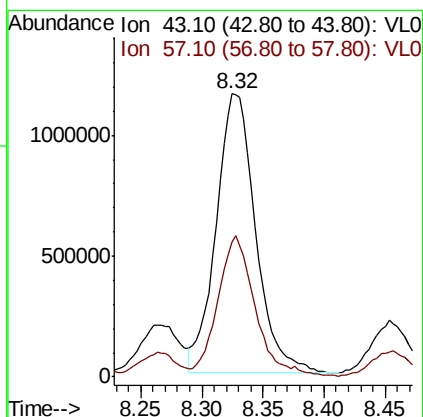
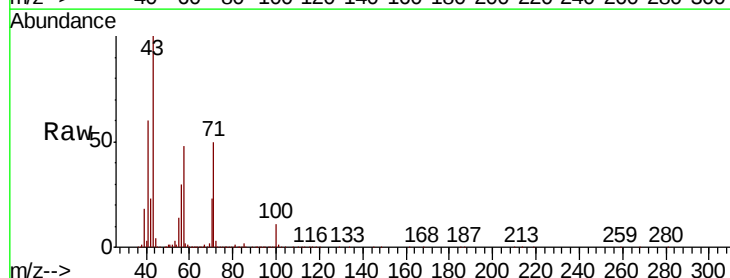
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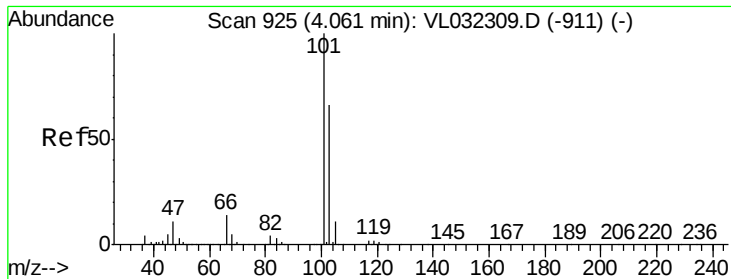
Tgt Ion: 43 Resp: 2614634

Ion Ratio Lower Upper

43 100

57 46.7 39.0 58.4





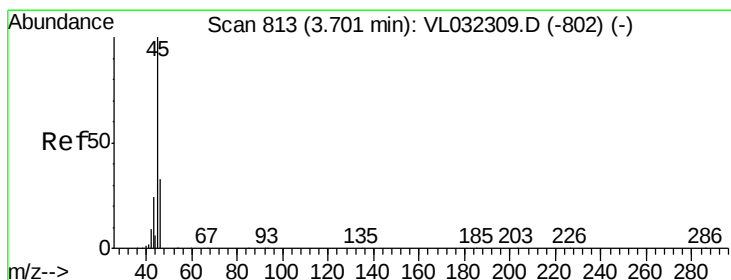
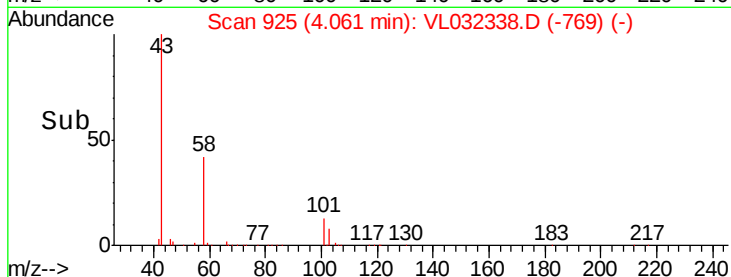
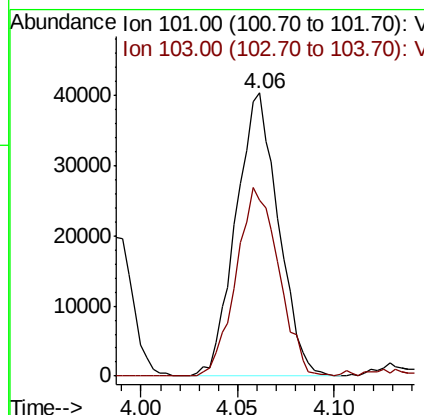
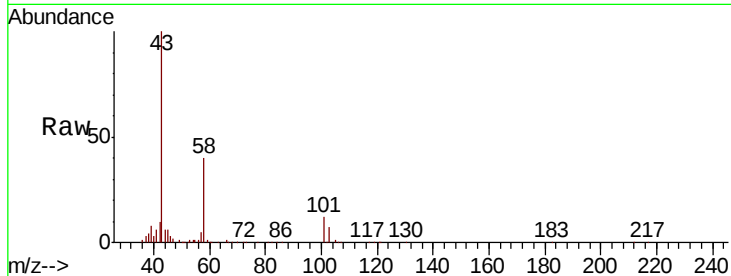
#11
 Trichlorofluoromethane
 Concen: 0.30 ppbv
 RT: 4.06 min Scan# 925
 Delta R.T. 0.00 min
 Lab File: VL032338.D
 Acq: 2 Aug 2018 1:19

Instrument :
 MSVOA_L
 ClientSampled :
 SV-1

Tot Ion	Ion	Ratio	Lower	Upper
101	100			
103	62.1	52.6	78.8	

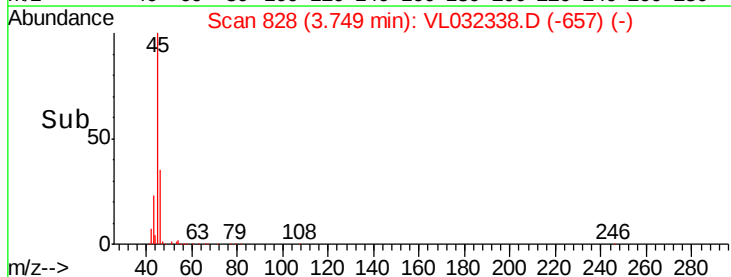
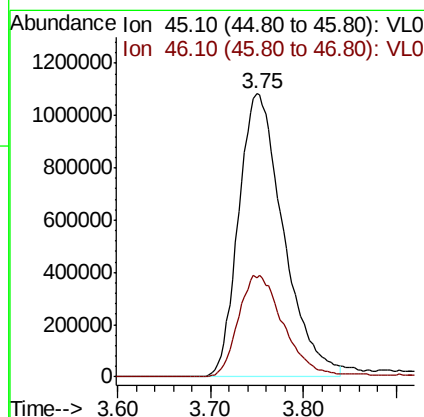
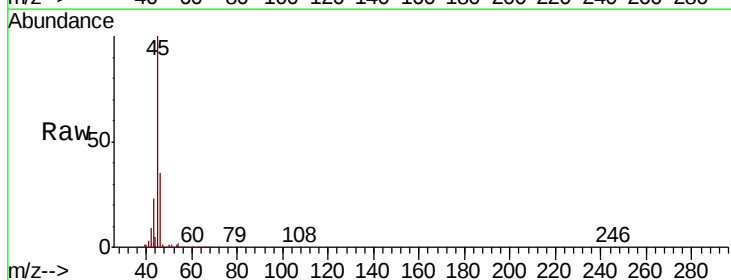
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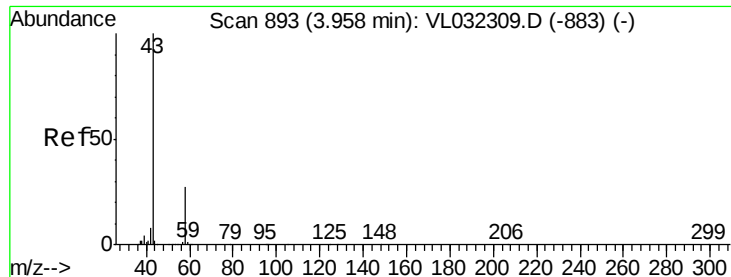
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#13
 Ethanol
 Concen: 155.92 ppbv
 RT: 3.75 min Scan# 828
 Delta R.T. 0.05 min
 Lab File: VL032338.D
 Acq: 2 Aug 2018 1:19

Tgt Ion	Ion	Ratio	Lower	Upper
45	100			
46	37.2	15.2	60.6	





#15

Acetone

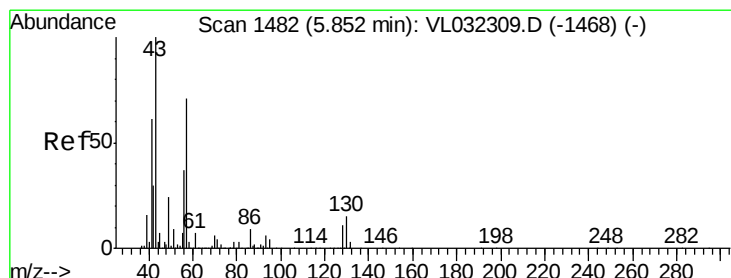
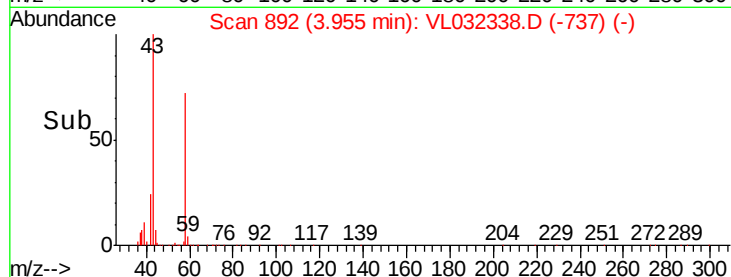
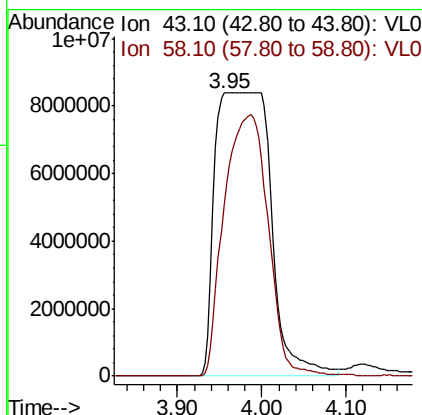
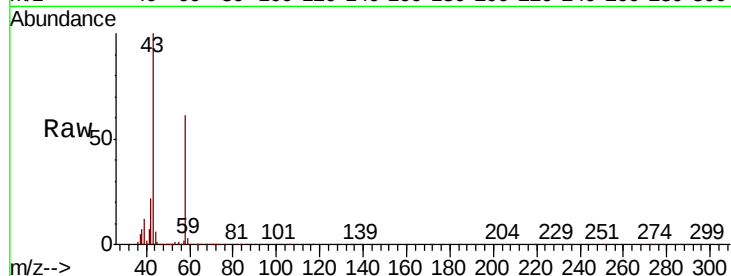
Concen: 224.45 ppbv m
RT: 3.95 min Scan# 892
Delta R.T. -0.00 min
Lab File: VL032338.D
Acq: 2 Aug 2018 1:19

Instrument :
MSVOA_L
ClientSampleId :
SV-1

Tot Ion: 43 Resp: 38270180
Ion Ratio Lower Upper
43 100
58 73.3 22.5 33.7#

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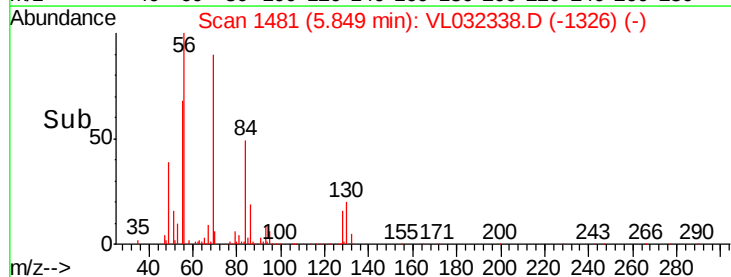
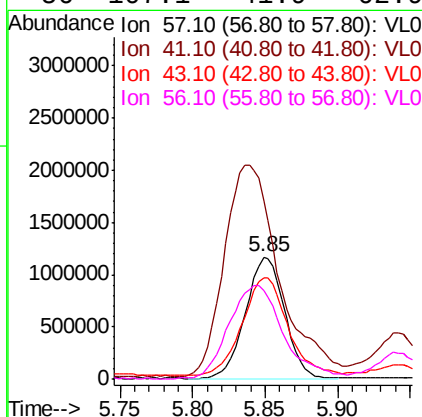
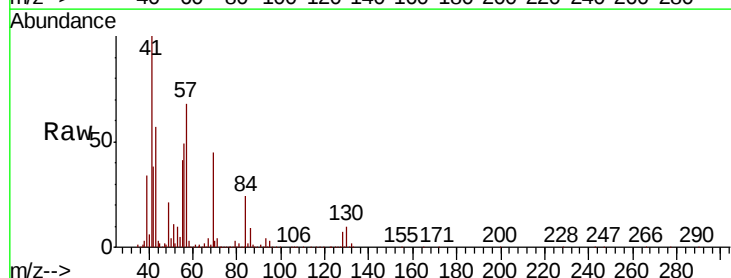


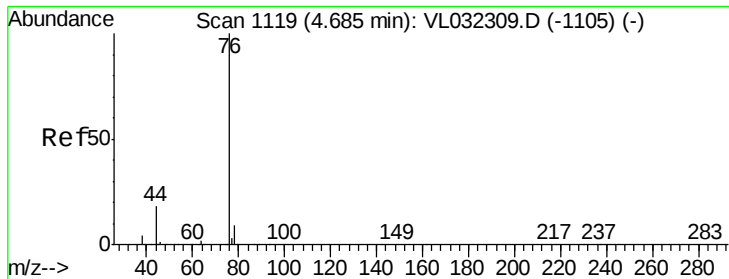
#26

Hexane

Concen: 12.54 ppbv
RT: 5.85 min Scan# 1481
Delta R.T. -0.00 min
Lab File: VL032338.D
Acq: 2 Aug 2018 1:19

Tgt Ion: 57 Resp: 2171119
Ion Ratio Lower Upper
57 100
41 247.8 68.1 102.1#
43 94.1 177.4 266.2#
56 107.1 41.9 62.9#





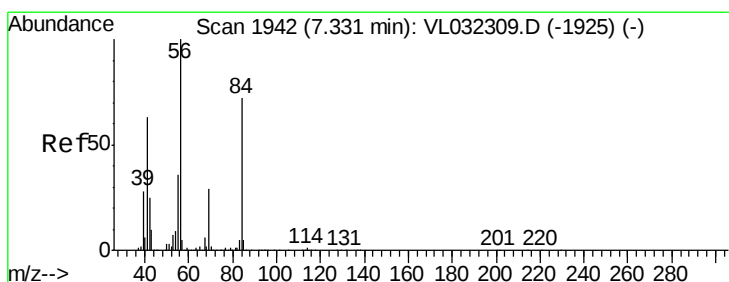
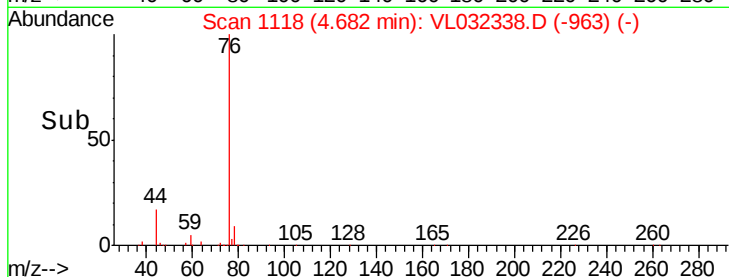
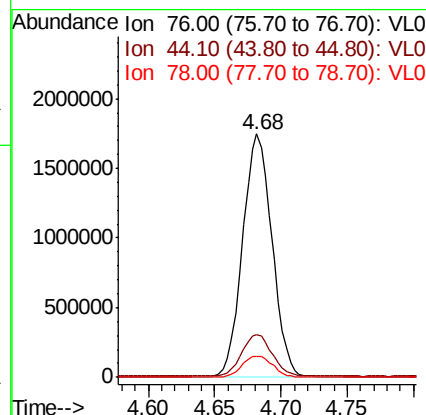
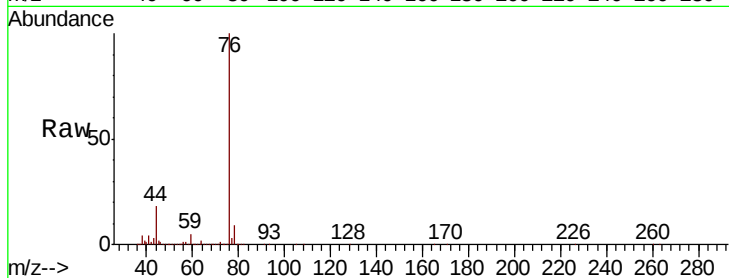
#27
Carbon Disulfide
Concen: 17.16 ppbv
RT: 4.68 min Scan# 1118
Delta R.T. -0.00 min
Lab File: VL032338.D
Acq: 2 Aug 2018 1:19

Instrument :
MSVOA_L
ClientSampled :
SV-1

Tot Ion	Ratio	Lower	Upper
76	100		
44	17.8	14.0	21.0
78	9.2	7.5	11.3

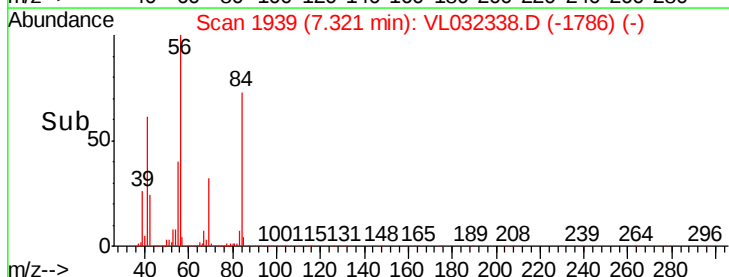
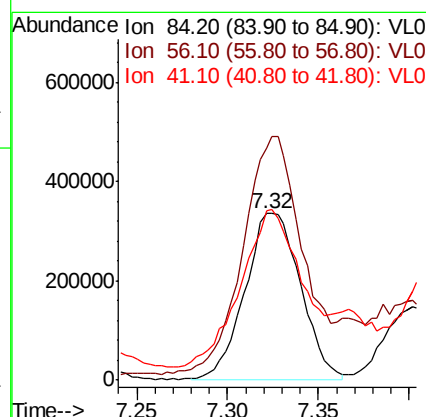
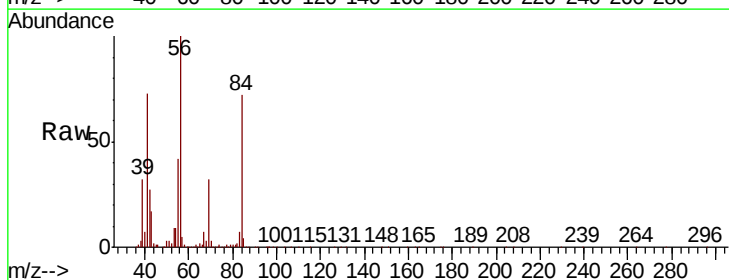
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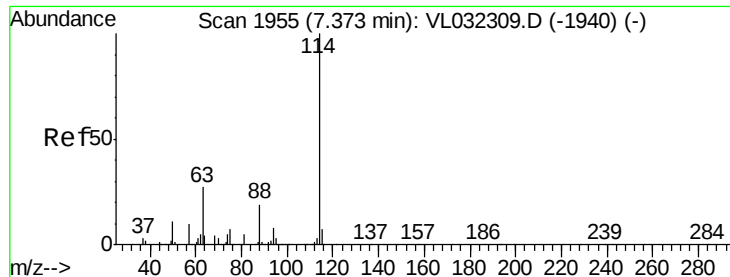
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#30
Cyclohexane
Concen: 5.31 ppbv m
RT: 7.32 min Scan# 1939
Delta R.T. -0.01 min
Lab File: VL032338.D
Acq: 2 Aug 2018 1:19

Tgt Ion	Ratio	Lower	Upper
84	100		
56	67.5	116.8	175.2#
41	0.0	70.0	105.0#





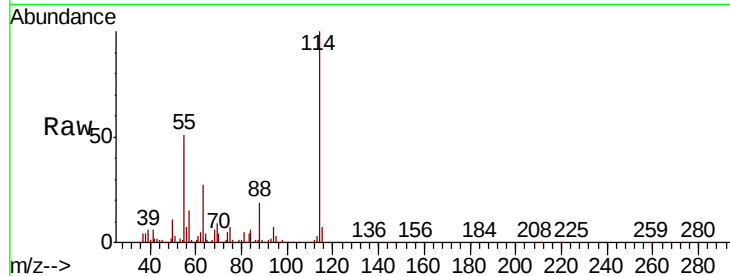
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.40 min Scan# 1962
 Delta R.T. 0.02 min
 Lab File: VL032338.D
 Acq: 2 Aug 2018 1:19

Instrument :
 MSVOA_L
 ClientSampleID :
 SV-1

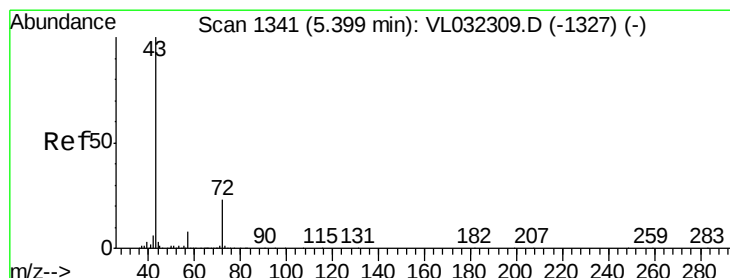
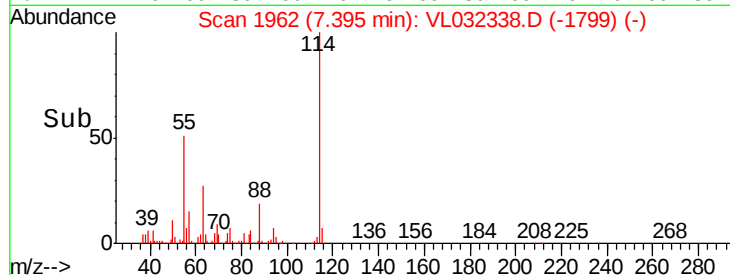
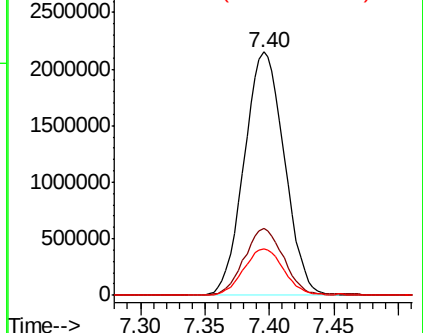
Tot Ion	Ratio	Lower	Upper
114	100		
63	27.9	22.4	33.6
88	19.4	15.3	22.9

Manual Integrations
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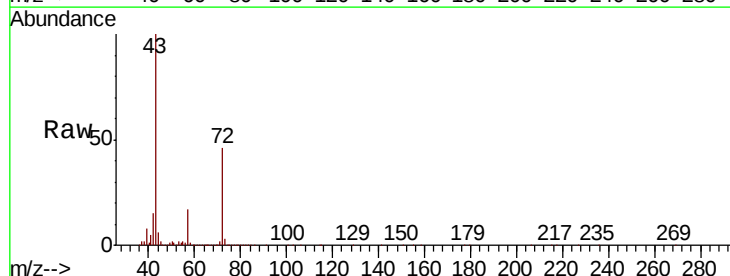


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

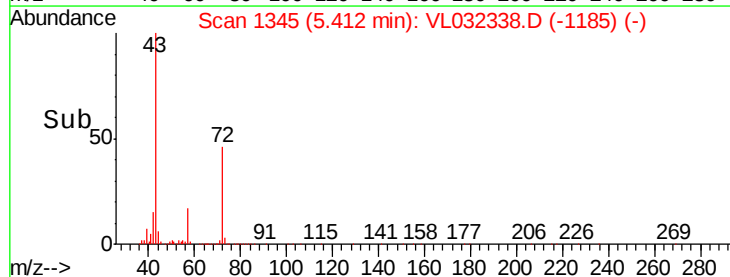
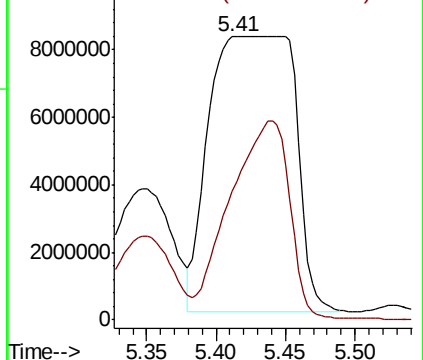


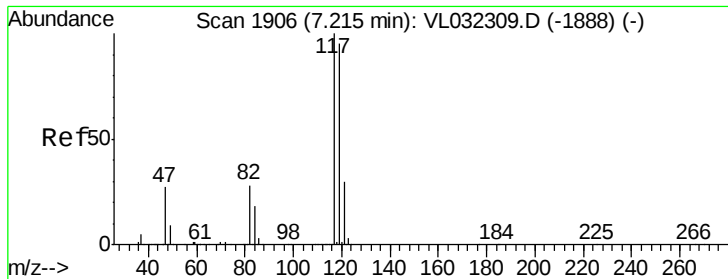
#34
 2-Butanone
 Concen: 115.55 ppbv m
 RT: 5.41 min Scan# 1345
 Delta R.T. 0.01 min
 Lab File: VL032338.D
 Acq: 2 Aug 2018 1:19

Tgt Ion	Ratio	Lower	Upper
43	100		
72	50.1	17.4	26.2



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.06 ppbv m

RT: 7.23 min Scan# 1910

Delta R.T. 0.01 min

Lab File: VL032338.D

Acq: 2 Aug 2018 1:19

Instrument :

MSVOA_L

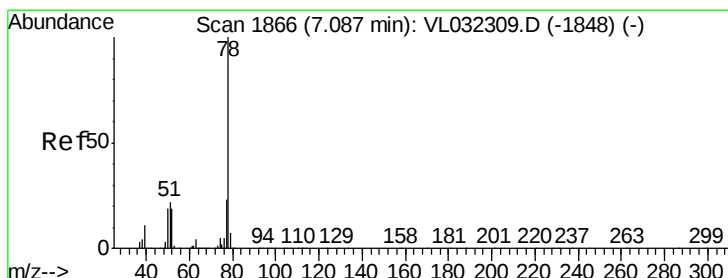
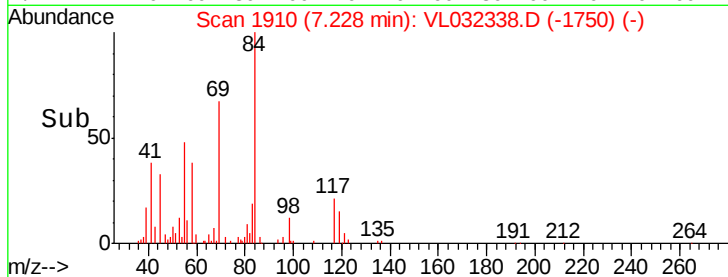
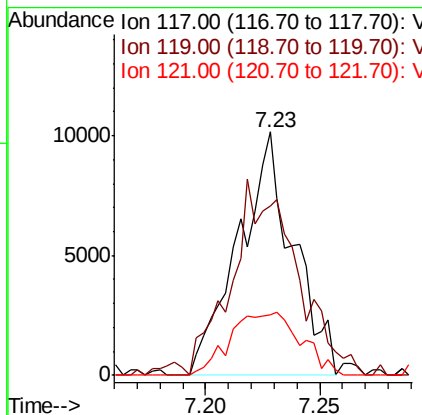
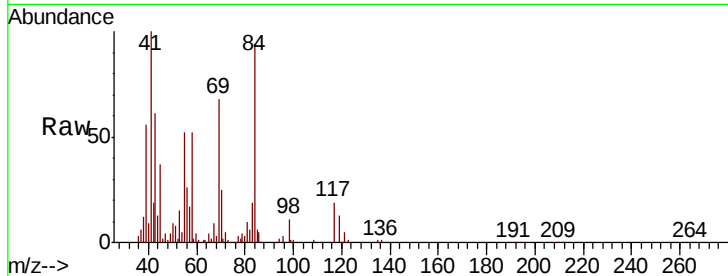
ClientSampled :

SV-1

Tot Ion	Ratio	Lower	Upper
117	100		
119	69.7	76.1	114.1#
121	25.0	24.4	36.6

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#36

Benzene

Concen: 12.48 ppbv

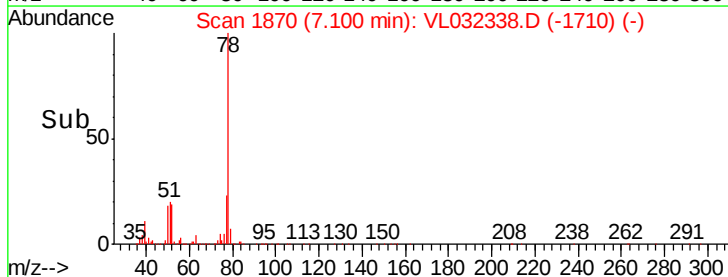
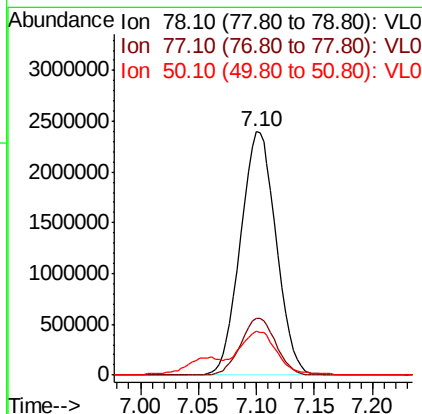
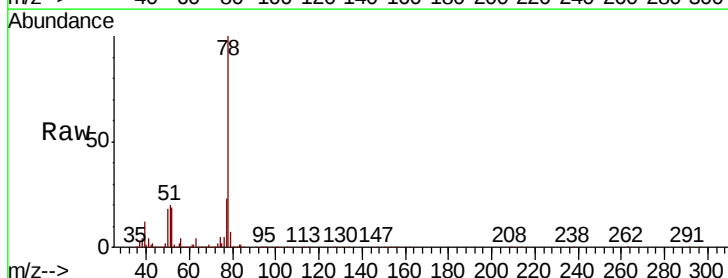
RT: 7.10 min Scan# 1870

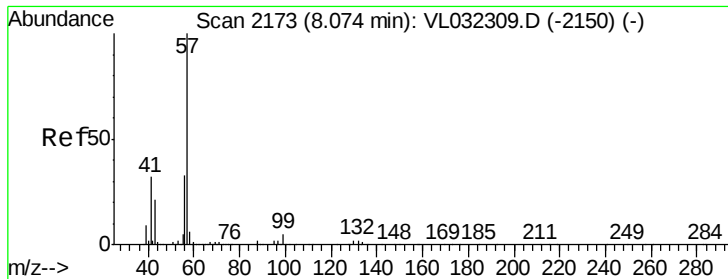
Delta R.T. 0.01 min

Lab File: VL032338.D

Acq: 2 Aug 2018 1:19

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.1	18.4	27.6
50	17.7	15.3	22.9





#44

2,2,4-Trimethylpentane

Concen: 2.91 ppbv

RT: 8.08 min Scan# 2174

Delta R.T. 0.00 min

Lab File: VL032338.D

Acq: 2 Aug 2018 1:19

Instrument :

MSVOA_L

ClientSampleId :

SV-1

Tot Ion: 57 Resp: 2598978

Ion Ratio Lower Upper

57 100

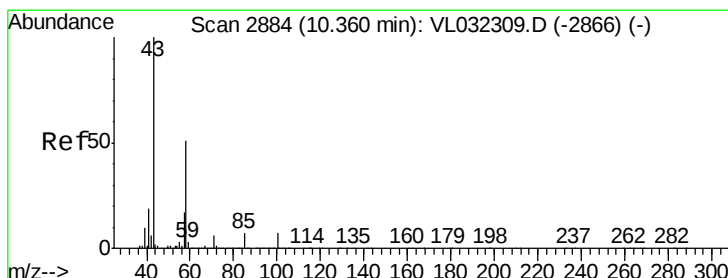
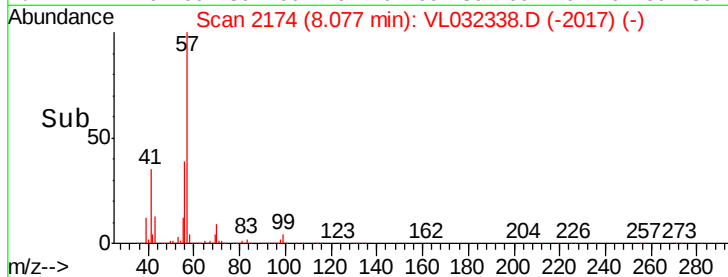
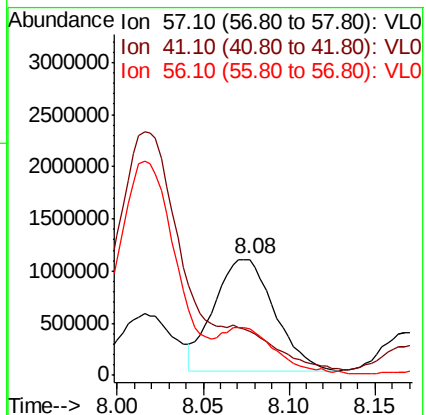
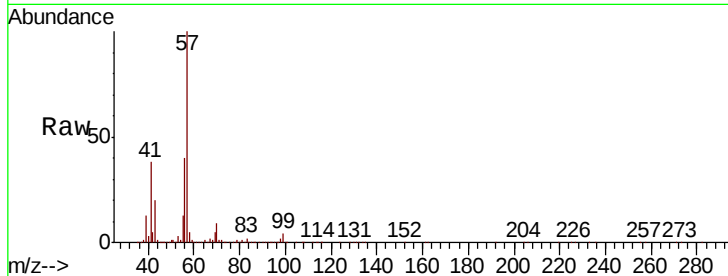
41 0.0 24.3 36.5#

56 32.1 25.4 38.2

Manual Integrations
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#51

2-Hexanone

Concen: 55.01 ppbv

RT: 10.36 min Scan# 2885

Delta R.T. 0.00 min

Lab File: VL032338.D

Acq: 2 Aug 2018 1:19

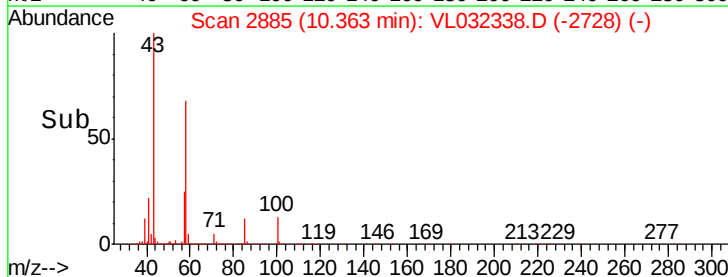
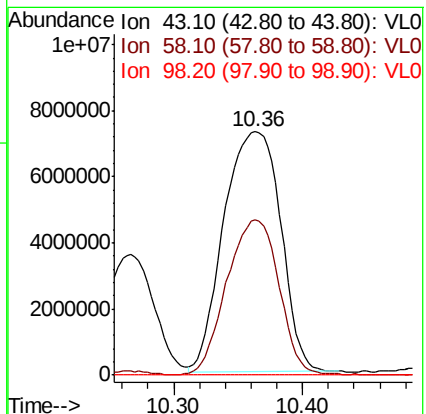
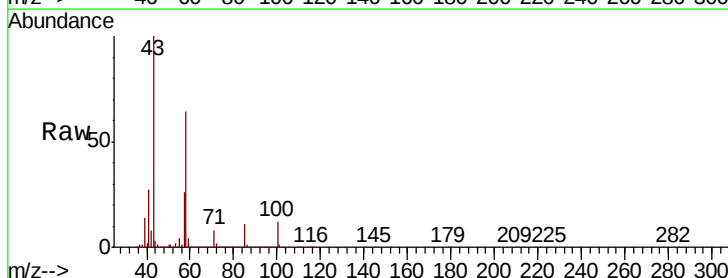
Tgt Ion: 43 Resp: 22336972

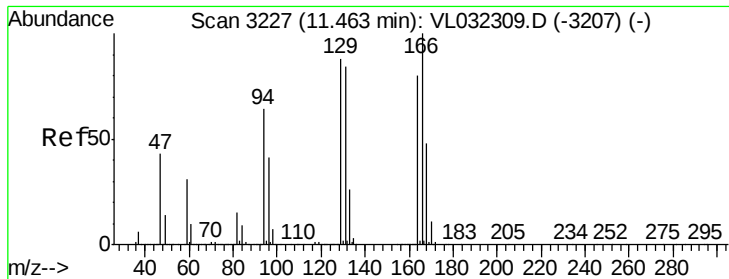
Ion Ratio Lower Upper

43 100

58 58.9 39.1 58.7#

98 0.0 0.3 0.5#





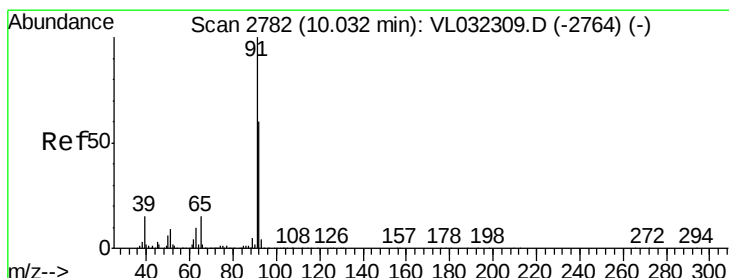
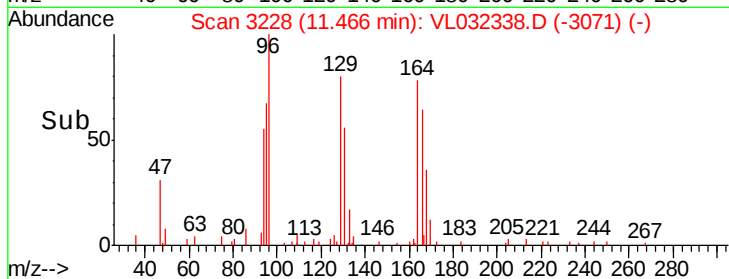
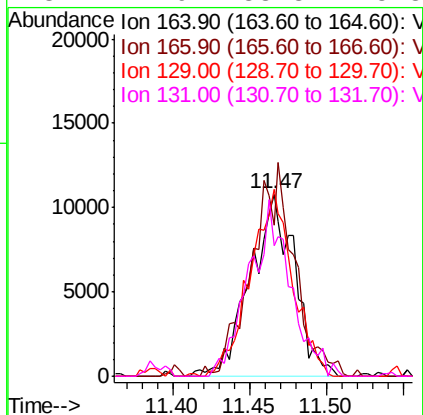
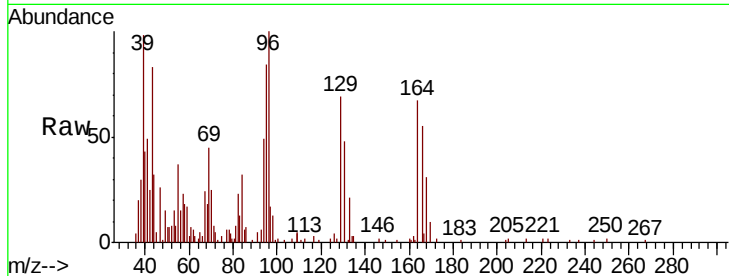
#52
Tetrachloroethene
Concen: 0.16 ppbv m
RT: 11.47 min Scan# 3228
Delta R.T. 0.00 min
Lab File: VL032338.D
Acq: 2 Aug 2018 1:19

Instrument :
MSVOA_L
ClientSampled :
SV-1

Tot Ion	Ratio	Lower	Upper
164	100		
166	83.1	100.0	150.0#
129	102.8	87.9	131.9
131	71.9	83.8	125.8#

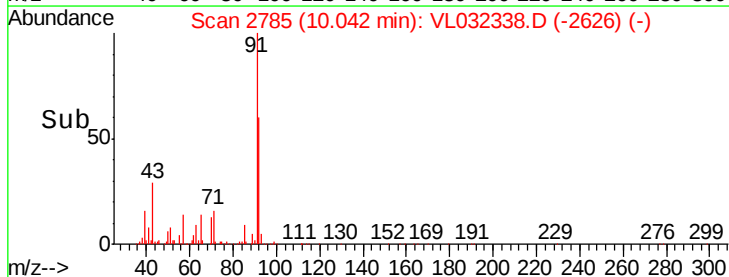
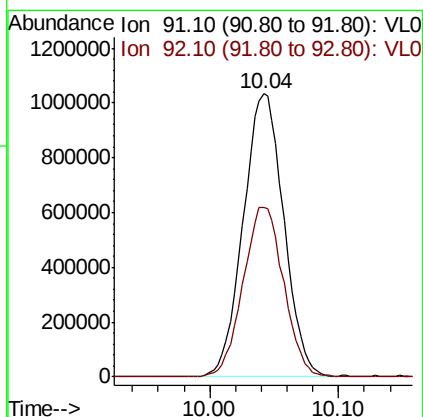
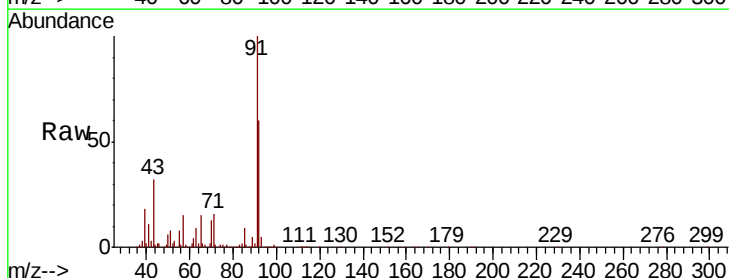
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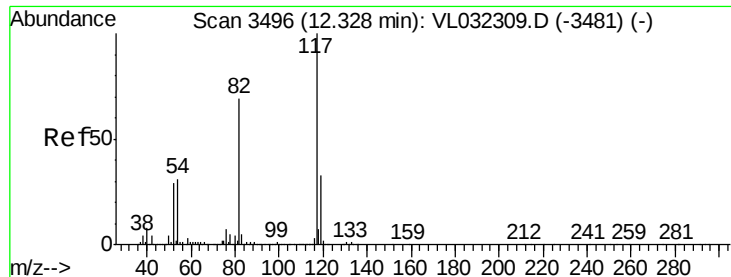
apatel
8/14/2018 2:00:23 PM



#53
Toluene
Concen: 4.59 ppbv
RT: 10.04 min Scan# 2785
Delta R.T. 0.01 min
Lab File: VL032338.D
Acq: 2 Aug 2018 1:19

Tgt Ion	Ratio	Lower	Upper
91	100		
92	60.0	48.6	72.8





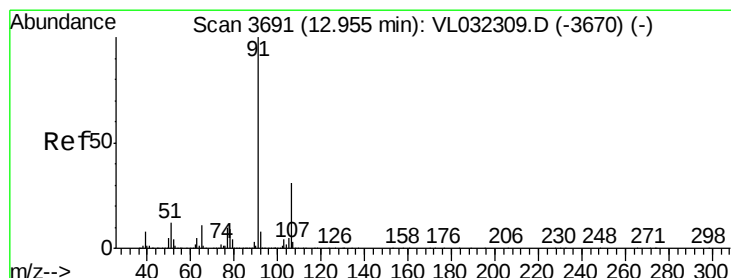
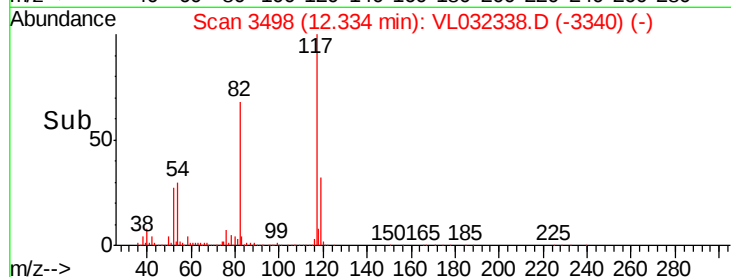
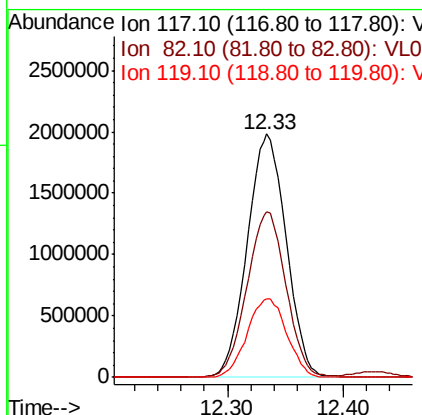
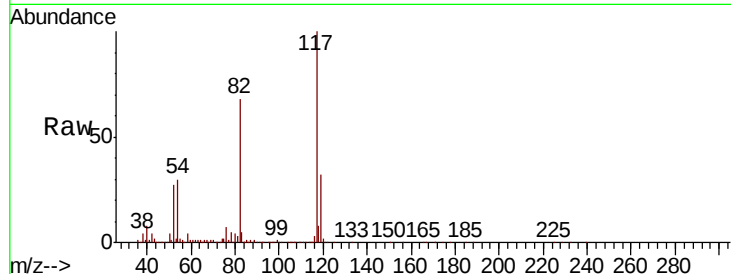
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.33 min Scan# 3498
Delta R.T. 0.01 min
Lab File: VL032338.D
Acq: 2 Aug 2018 1:19

Instrument :
MSVOA_L
ClientSampled :
SV-1

Tot Ion	Ratio	Lower	Upper
117	100		
82	68.1	52.6	78.8
119	33.0	25.7	38.5

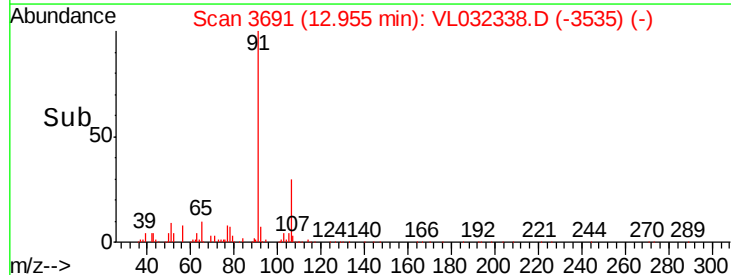
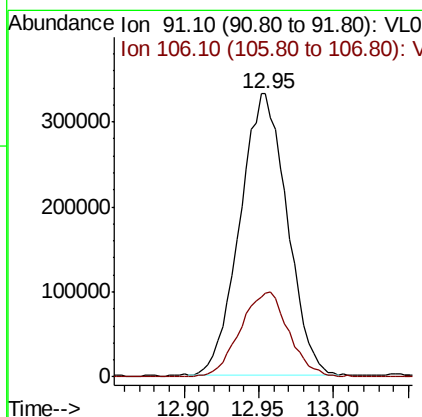
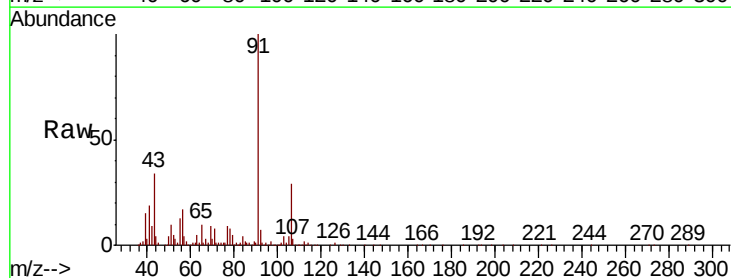
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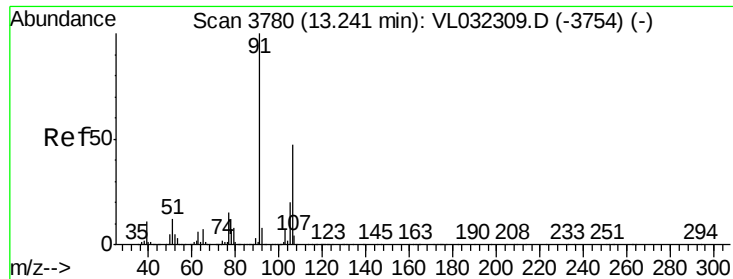
apatel
8/14/2018 2:00:23 PM



#58
Ethyl Benzene
Concen: 1.26 ppbv
RT: 12.95 min Scan# 3691
Delta R.T. 0.00 min
Lab File: VL032338.D
Acq: 2 Aug 2018 1:19

Tgt Ion	Ratio	Lower	Upper
91	100		
106	29.6	25.0	37.4





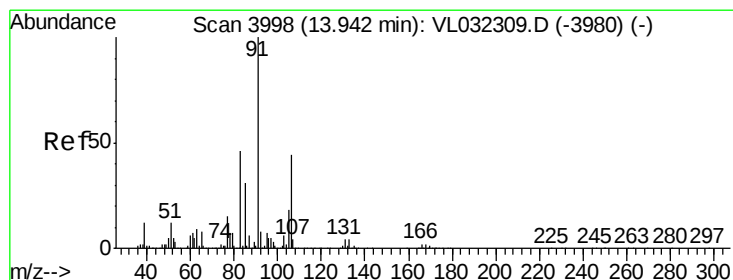
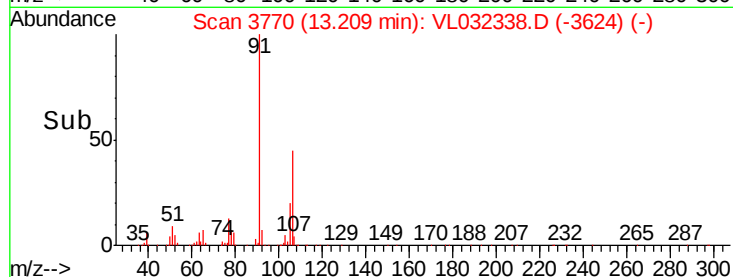
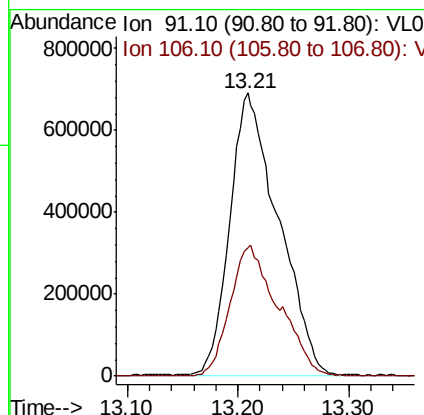
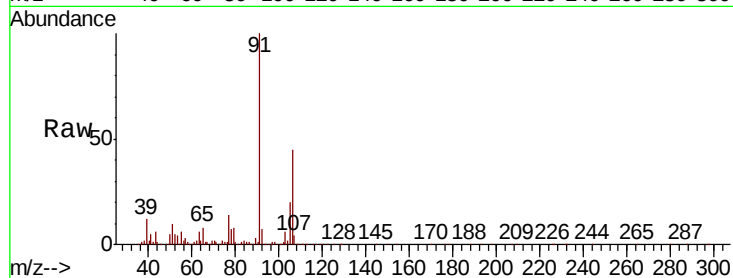
#59
m/p-Xylene
Concen: 4.24 ppbv
RT: 13.21 min Scan# 3770
Delta R.T. -0.03 min
Lab File: VL032338.D
Acq: 2 Aug 2018 1:19

Instrument :
MSVOA_L
ClientSampled :
SV-1

Tot Ion: 91 Resp: 2095473
Ion Ratio Lower Upper
91 100
106 46.2 36.4 54.6

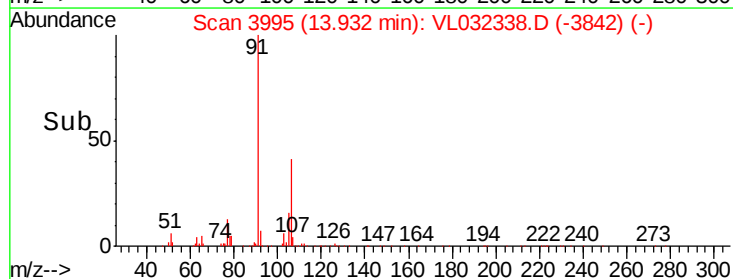
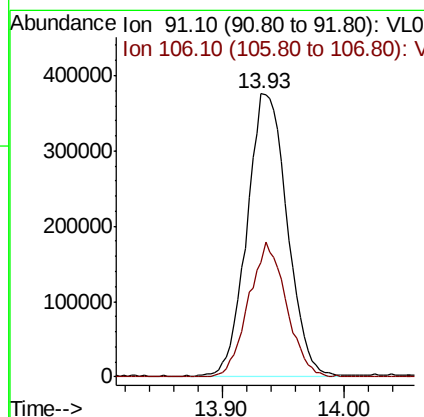
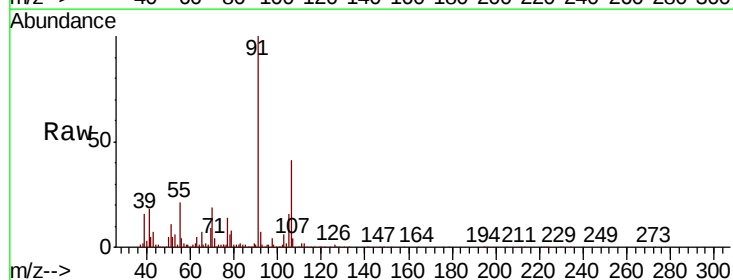
Manual Integrations
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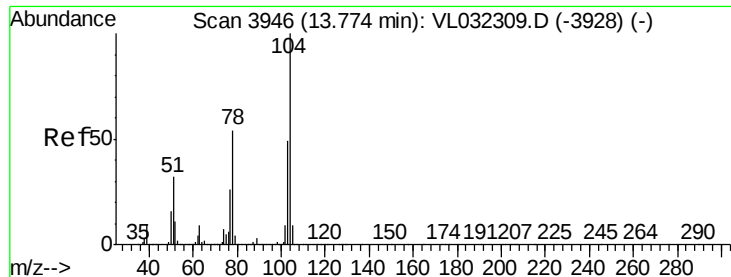
apatel
8/14/2018 2:00:23 PM



#60
o-Xylene
Concen: 1.75 ppbv
RT: 13.93 min Scan# 3995
Delta R.T. -0.01 min
Lab File: VL032338.D
Acq: 2 Aug 2018 1:19

Tgt Ion: 91 Resp: 849759
Ion Ratio Lower Upper
91 100
106 45.1 22.4 67.0





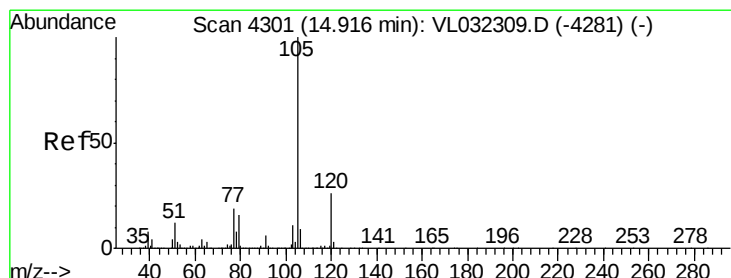
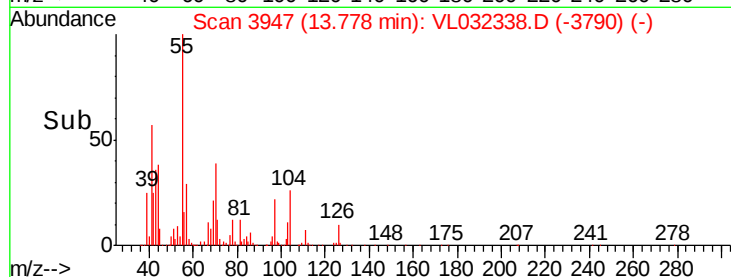
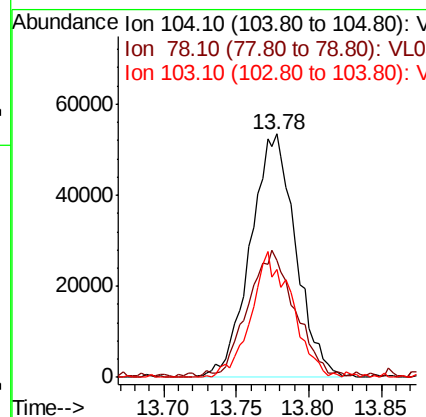
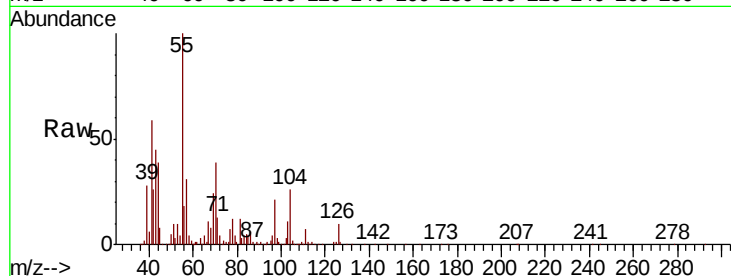
#61
Stvrene
Concen: 0.33 ppbv
RT: 13.78 min Scan# 3947
Delta R.T. 0.00 min
Lab File: VL032338.D
Acq: 2 Aug 2018 1:19

Instrument :
MSVOA_L
ClientSampled :
SV-1

Tot Ion	Ratio	Lower	Upper
104	100		
78	54.5	42.6	63.8
103	46.8	38.0	57.0

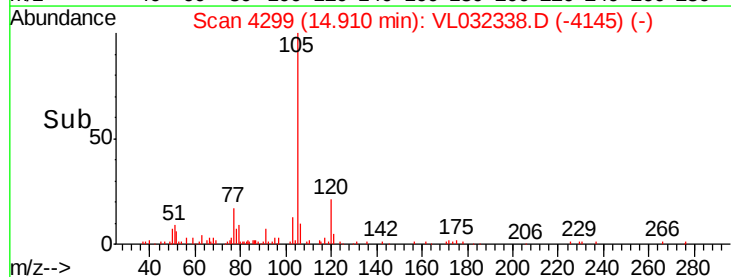
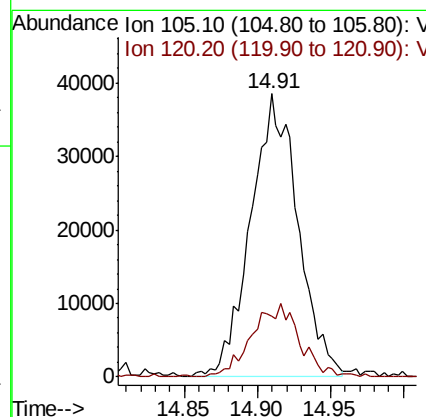
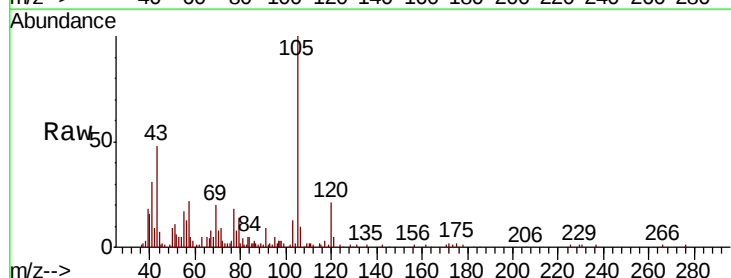
Manual Integrations
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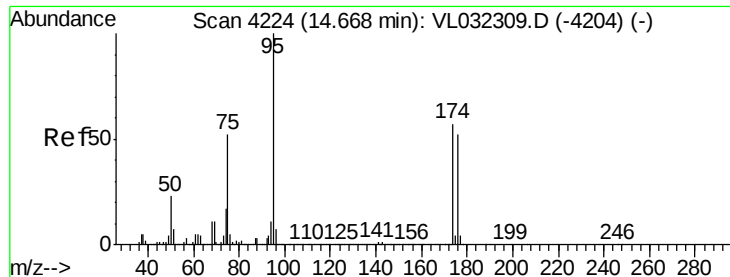
apatel
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#62
Isopropylbenzene
Concen: 0.13 ppbv m
RT: 14.91 min Scan# 4299
Delta R.T. -0.01 min
Lab File: VL032338.D
Acq: 2 Aug 2018 1:19

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.0	20.4	30.6





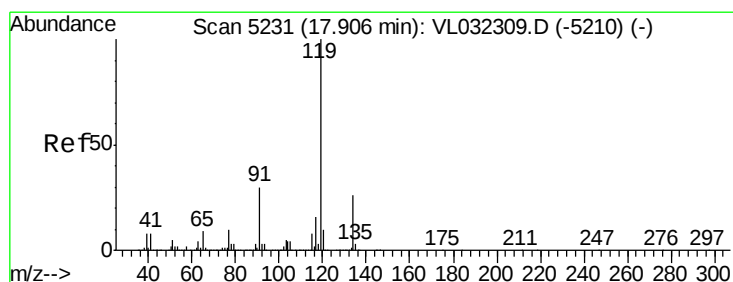
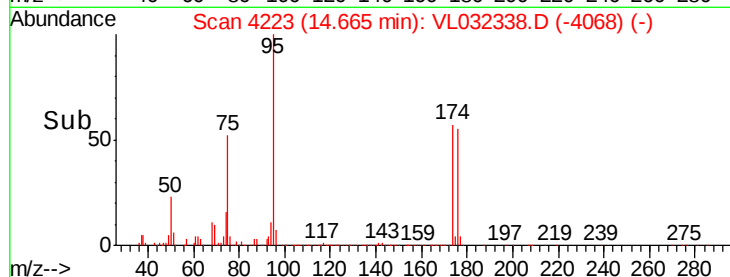
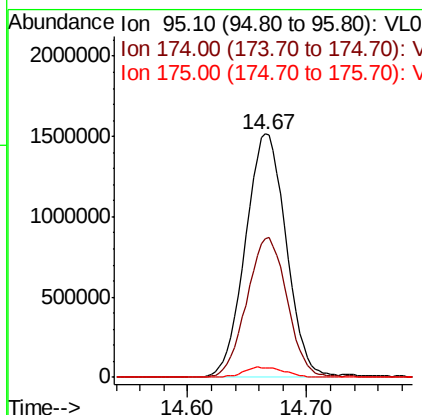
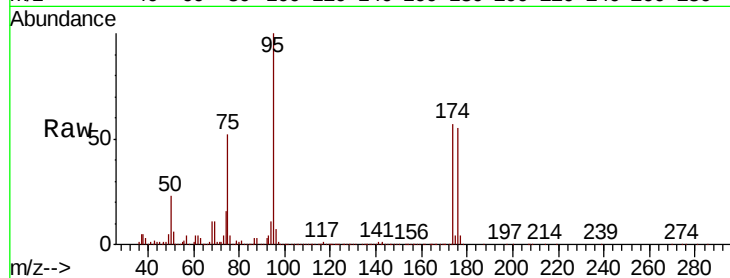
#68
1-Bromo-4-Fluorobenzene
Concen: 10.00 ppbv
RT: 14.67 min Scan# 4223
Delta R.T. -0.00 min
Lab File: VL032338.D
Acq: 2 Aug 2018 1:19

Instrument :
MSVOA_L
ClientSampled :
SV-1

Tot Ion: 95 Resp: 3593200
Ion Ratio Lower Upper
95 100
174 57.3 45.5 68.3
175 4.2 3.3 4.9

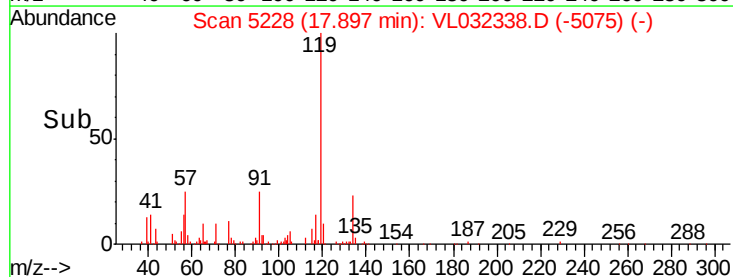
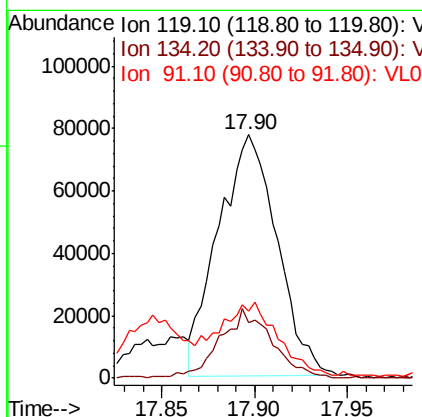
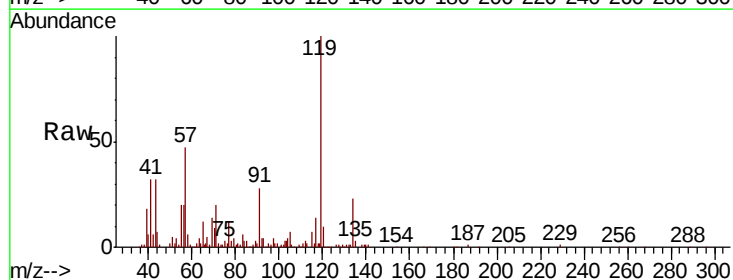
Manual Integrations
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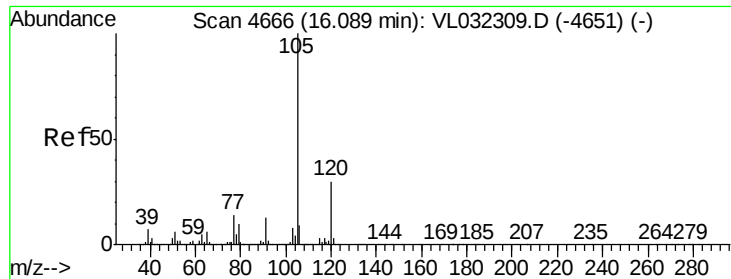
apatel
8/14/2018 2:00:23 PM



#69
p-Isopropyltoluene
Concen: 0.25 ppbv
RT: 17.90 min Scan# 5228
Delta R.T. -0.01 min
Lab File: VL032338.D
Acq: 2 Aug 2018 1:19

Tgt Ion: 119 Resp: 169847
Ion Ratio Lower Upper
119 100
134 25.6 20.3 30.5
91 31.5 23.8 35.6





#72

4-Ethyltoluene

Concen: 0.21 ppbv m

RT: 16.08 min Scan# 4663

Delta R.T. -0.01 min

Lab File: VL032338.D

Acq: 2 Aug 2018 1:19

Instrument :

MSVOA_L

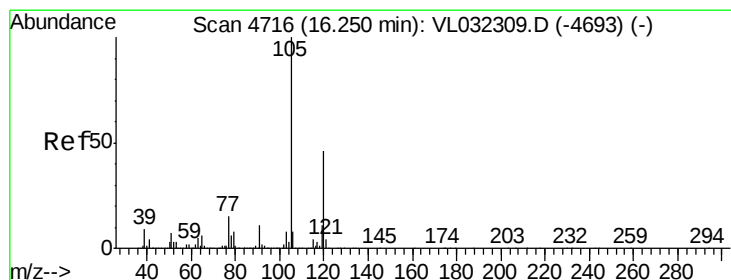
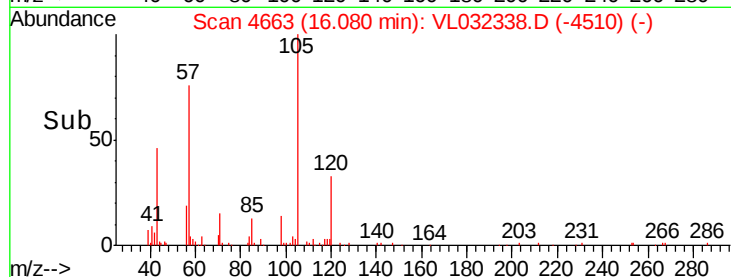
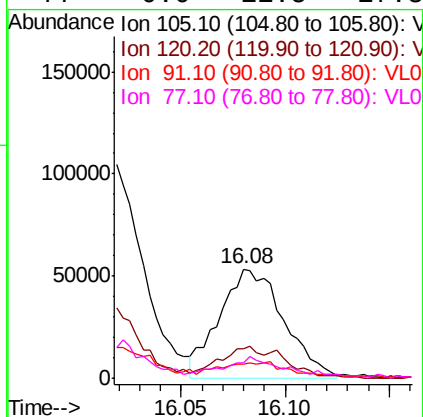
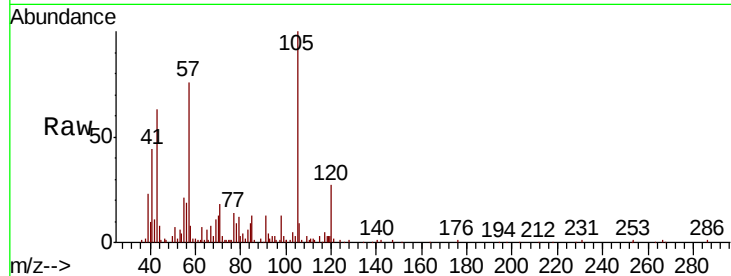
ClientSampled :

SV-1

Tot Ion:	105	Resp:	114833
Ion Ratio	Lower	Upper	
105	100		
120	0.0	23.1	34.7#
91	16.1	10.0	15.0#
77	0.0	11.5	17.3#

Manual Integrations
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apatel
8/14/2018 2:00:23 PM



#73

1,3,5-Trimethylbenzene

Concen: 0.42 ppbv

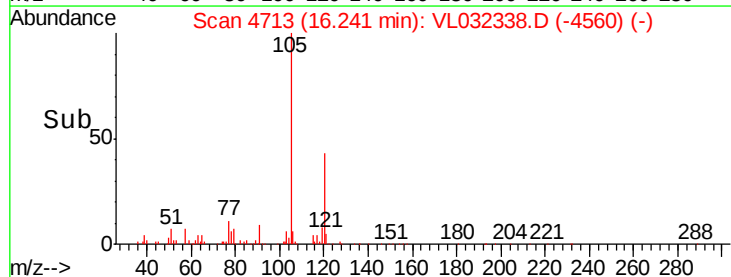
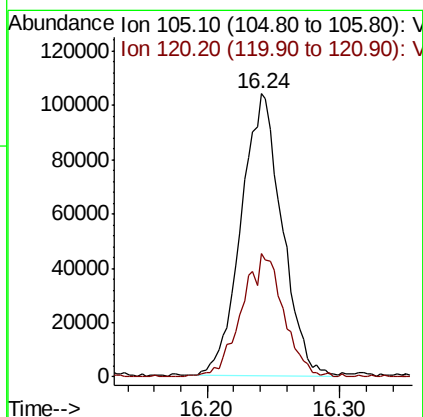
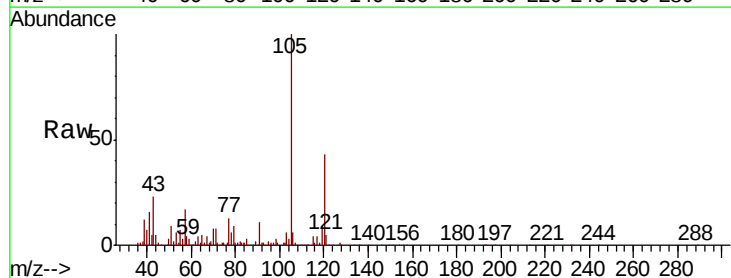
RT: 16.24 min Scan# 4713

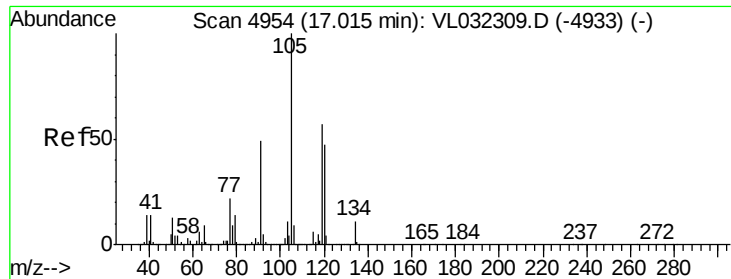
Delta R.T. -0.01 min

Lab File: VL032338.D

Acq: 2 Aug 2018 1:19

Tgt Ion:	105	Resp:	223956
Ion Ratio	Lower	Upper	
105	100		
120	43.3	36.5	54.7





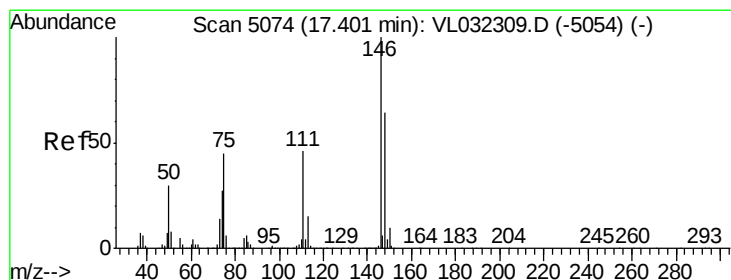
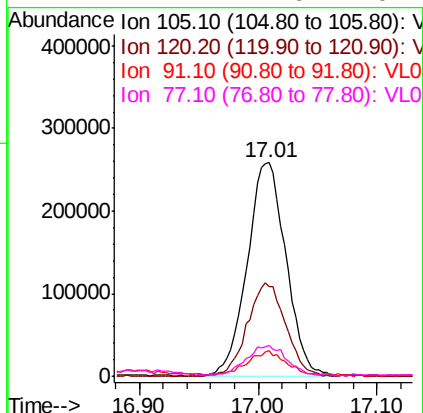
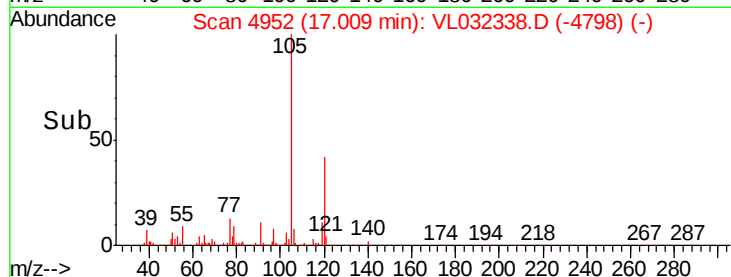
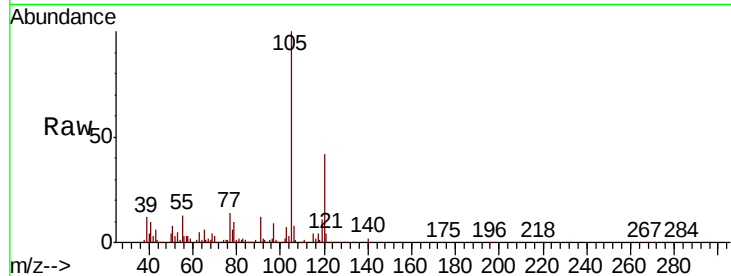
#74
 1,2,4-Trimethylbenzene
 Concen: 1.04 ppbv
 RT: 17.01 min Scan# 4952
 Delta R.T. -0.01 min
 Lab File: VL032338.D
 Acq: 2 Aug 2018 1:19

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-1

Tot Ion	Ratio	Resp Lower	Upper
105	100		
120	42.0	37.8	56.6
91	11.0	39.4	59.0
77	14.2	17.6	26.4

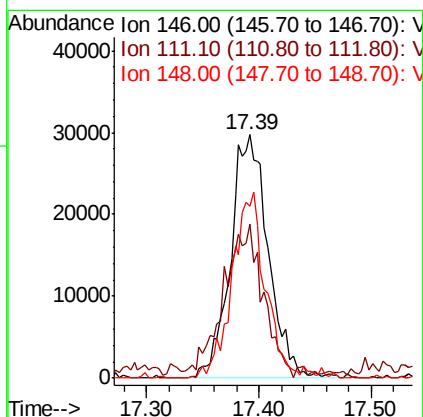
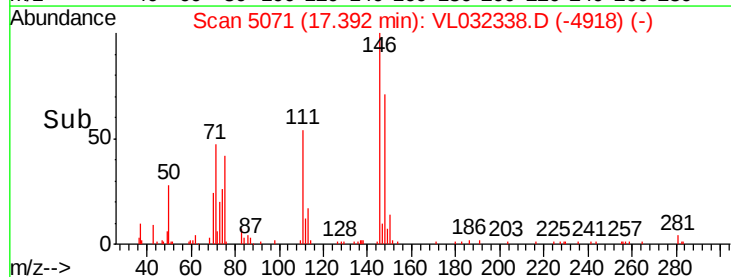
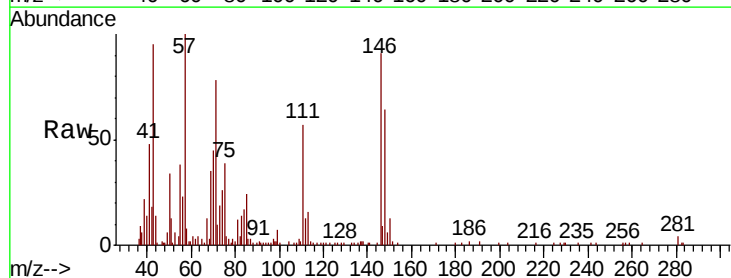
Manual Integrations
 APPROVED

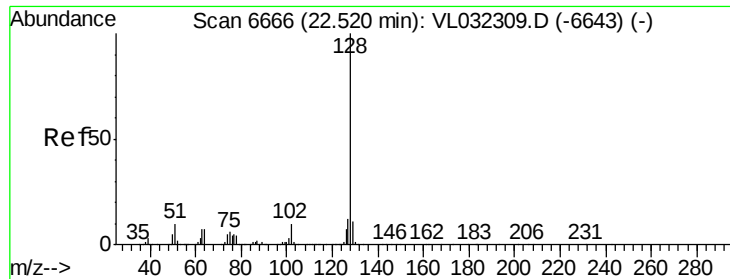
apatel
 8/14/2018 2:00:23 PM



#76
 1,4-Dichlorobenzene
 Concen: 0.22 ppbv m
 RT: 17.39 min Scan# 5071
 Delta R.T. -0.01 min
 Lab File: VL032338.D
 Acq: 2 Aug 2018 1:19

Tgt Ion	Ratio	Resp Lower	Upper
146	100		
111	67.7	23.6	70.8
148	68.6	32.1	96.3





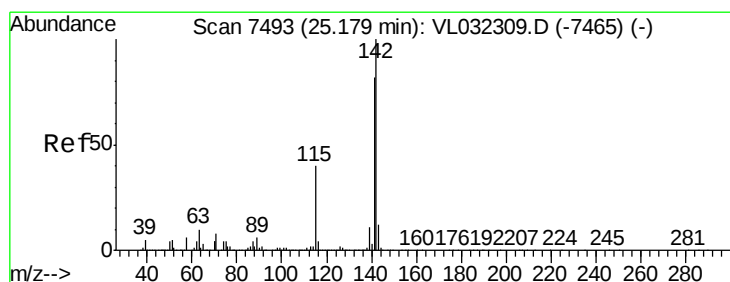
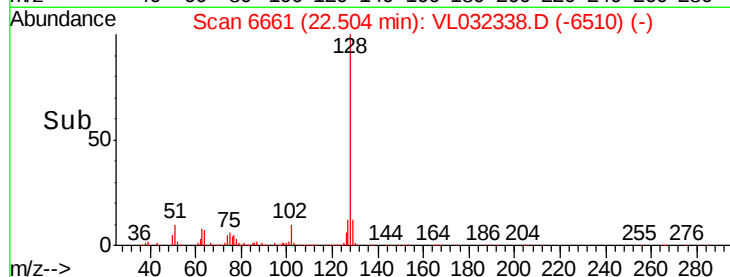
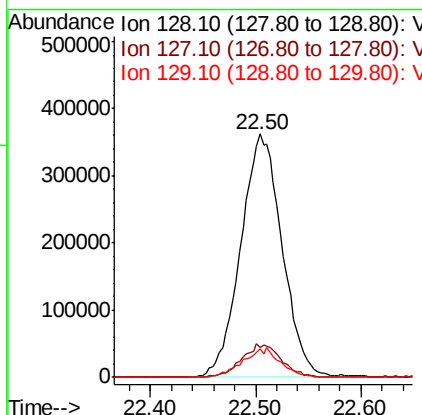
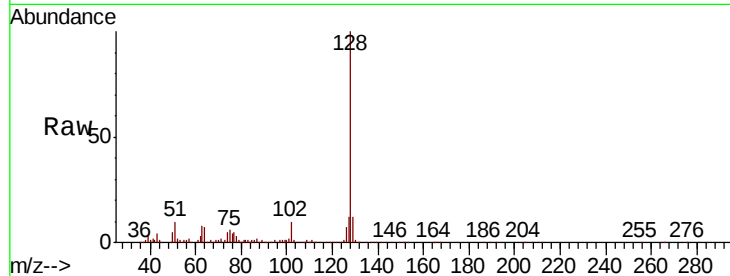
#79
Naphthalene
Concen: 2.02 ppbv
RT: 22.50 min Scan# 6661
Delta R.T. -0.02 min
Lab File: VL032338.D
Acq: 2 Aug 2018 1:19

Instrument :
MSVOA_L
ClientSampled :
SV-1

Tot Ion	Ratio	Resp Lower	Upper
128	100		
127	12.3	9.9	14.9
129	11.7	8.8	13.2

Manual Integrations
APPROVED

apatel
8/14/2018 2:00:23 PM



#80
Naphthalene, 2-methyl-
Concen: 0.69 ppbv
RT: 25.18 min Scan# 7492
Delta R.T. -0.00 min
Lab File: VL032338.D
Acq: 2 Aug 2018 1:19

Tgt Ion	Ratio	Resp Lower	Upper
142	100		
141	86.4	66.7	100.1
115	40.2	31.1	46.7

