

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080118\
 Data File : VL032331.D
 Acq On : 1 Aug 2018 20:33
 Operator : SY/AP
 Sample : J4235-01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MARKETING-CONFERENCE-ROOM

Manual Integrations
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 8/2/2018 2:04:56 PM

Quant Time: Aug 02 12:33:14 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

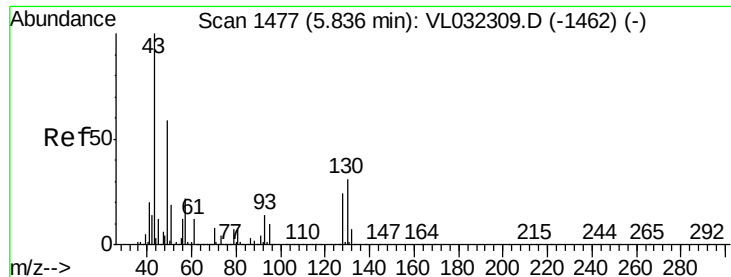
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.83	49	1810760	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.36	114	3691775	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.32	117	4225990	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.66	95	3366965	10.26	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.12	85	49711m	0.23	ppbv	
3) Chlorodifluoromethane	3.05	51	79921m	0.44	ppbv	
4) Chloromethane	3.22	50	60690	0.55	ppbv	99
9) Propene	3.08	41	263463	3.24	ppbv	91
10) Heptane	8.32	43	85306m	0.30	ppbv	
11) Trichlorofluoromethane	4.06	101	56098	0.27	ppbv #	83
13) Ethanol	3.71	45	3110641	132.96	ppbv	99
15) Acetone	3.95	43	2277806m	13.35	ppbv	
19) Isopropyl Alcohol	4.09	45	898743m	7.89	ppbv	
20) Methylene Chloride	4.47	84	297229	4.33	ppbv	95
26) Hexane	5.85	57	781550	4.51	ppbv #	50
30) Cyclohexane	7.32	84	15714m	0.12	ppbv	
34) 2-Butanone	5.39	43	222891	0.93	ppbv	99
35) Carbon Tetrachloride	7.20	117	17258m	0.08	ppbv	
36) Benzene	7.08	78	77169	0.24	ppbv #	94
37) 1,2-Dichloroethane	6.48	62	83911	0.45	ppbv	100
44) 2,2,4-Trimethylpentane	8.07	57	92495	0.13	ppbv #	66
52) Tetrachloroethene	11.47	164	3313m	0.03	ppbv	
53) Toluene	10.03	91	416232	1.07	ppbv	98
58) Ethyl Benzene	12.94	91	86167m	0.16	ppbv	
59) m/p-Xylene	13.20	91	361819m	0.80	ppbv	
60) o-Xylene	13.93	91	159525	0.36	ppbv	100
61) Styrene	13.76	104	47886m	0.15	ppbv	
72) 4-Ethyltoluene	16.08	105	81128	0.16	ppbv #	95
73) 1,3,5-Trimethylbenzene	16.23	105	72877m	0.15	ppbv	
74) 1,2,4-Trimethylbenzene	17.00	105	243470	0.47	ppbv #	71
79) Naphthalene	22.51	128	255658m	0.57	ppbv	

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



#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.83 min Scan# 1474

Delta R.T. -0.01 min

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Instrument :

MSVOA_L

ClientSampleId :

MARKETING-CONFERENCE-ROOM

Tot Ion: 49 Resp: 1810760

Ion Ratio Lower Upper

49 100

128 39.5 20.2 60.6

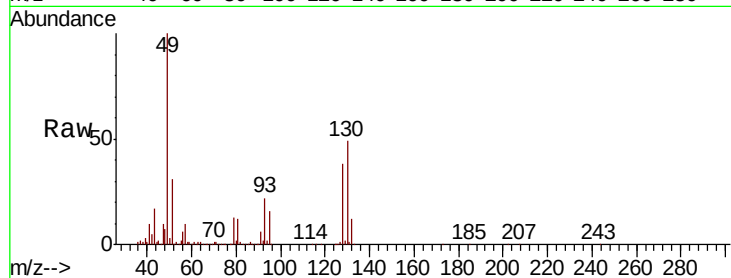
130 50.5 25.8 77.3

Manual Integrations

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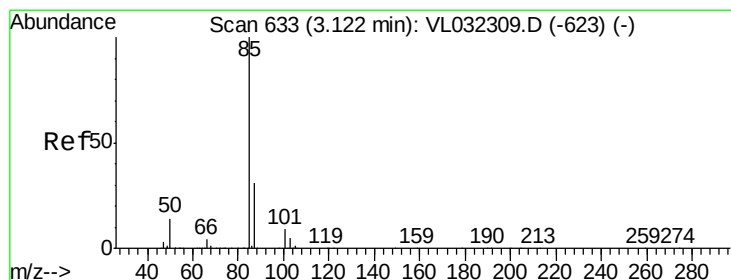
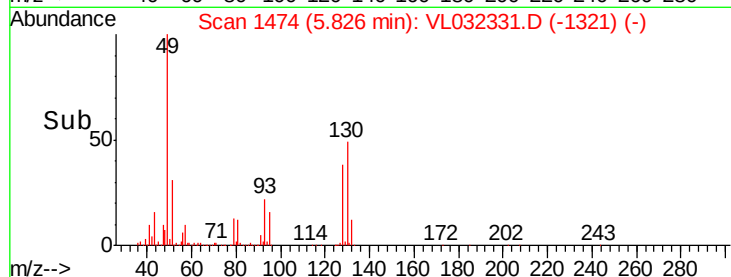
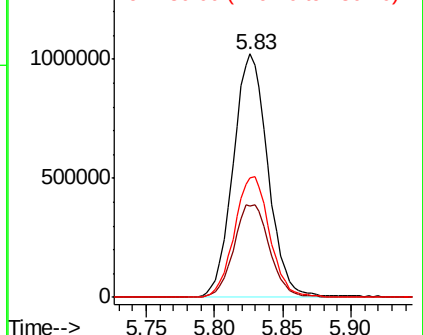
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.23 ppbv m

RT: 3.12 min Scan# 632

Delta R.T. -0.00 min

Lab File: VL032331.D

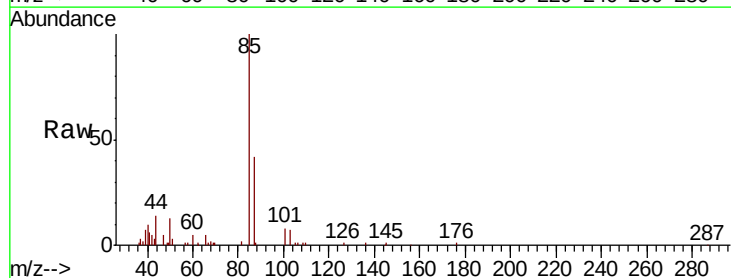
Acq: 1 Aug 2018 20:33

Tgt Ion: 85 Resp: 49711

Ion Ratio Lower Upper

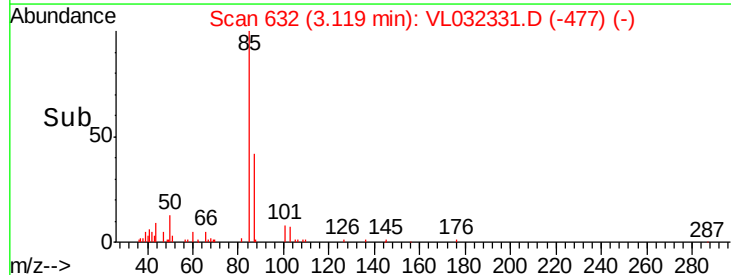
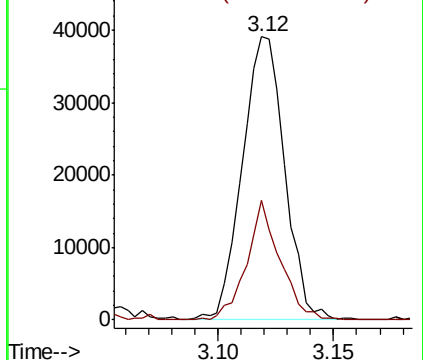
85 100

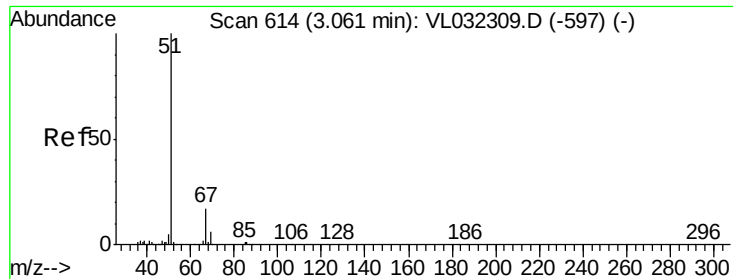
87 42.3 25.2 37.8#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.44 ppbv m

RT: 3.05 min Scan# 612

Delta R.T. -0.01 min

Lab File: VL032331.D

Acq: 1 Aug 2018 20:33

Instrument :

MSVOA_L

ClientSampleId :

MARKETING-CONFERENCE-ROOM

Tot Ion: 51 Resp: 79921

Ion Ratio Lower Upper

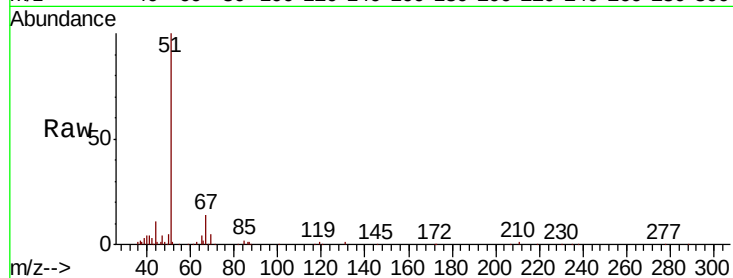
51 100

67 20.8 13.5 20.3#

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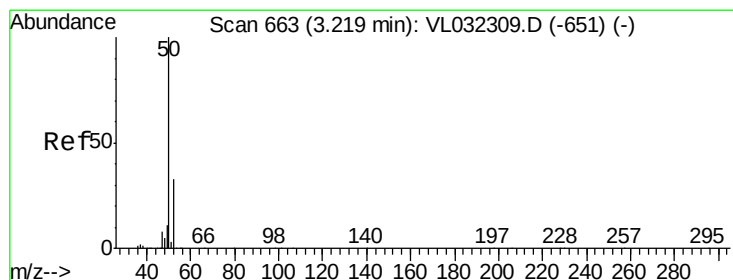
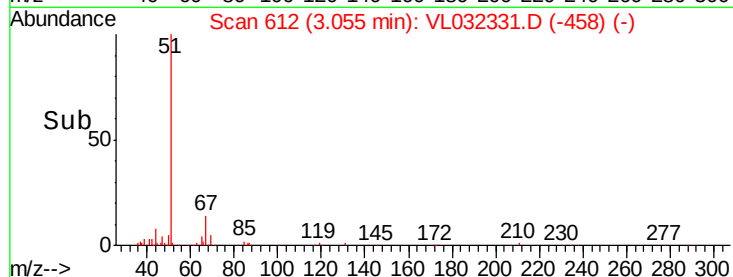
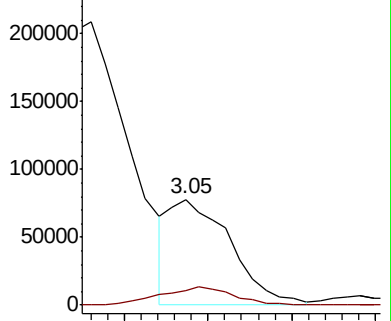
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.55 ppbv

RT: 3.22 min Scan# 662

Delta R.T. -0.00 min

Lab File: VL032331.D

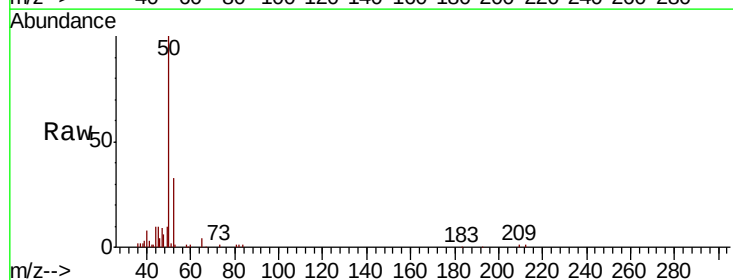
Acq: 1 Aug 2018 20:33

Tgt Ion: 50 Resp: 60690

Ion Ratio Lower Upper

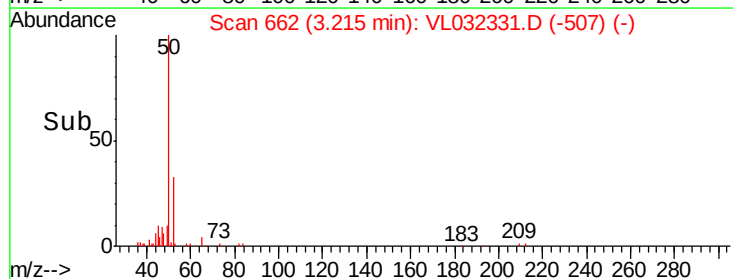
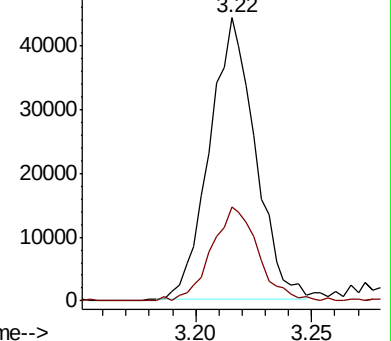
50 100

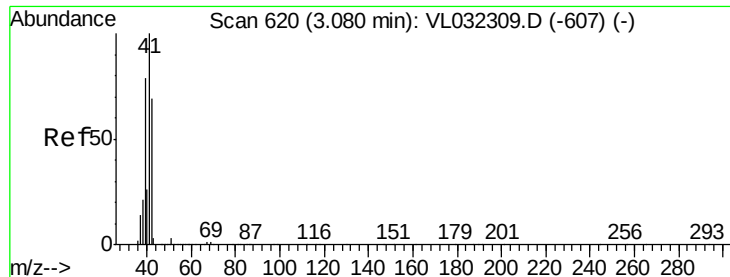
52 33.3 26.2 39.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 3.24 ppbv

RT: 3.08 min Scan# 620

Delta R.T. 0.00 min

Lab File: VL032331.D

Acq: 1 Aug 2018 20:33

Instrument :

MSVOA_L

ClientSampleId :

MARKETING-CONFERENCE-ROOM

Tot Ion: 41 Resp: 263463

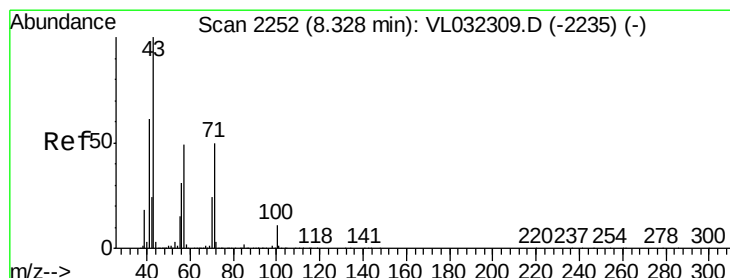
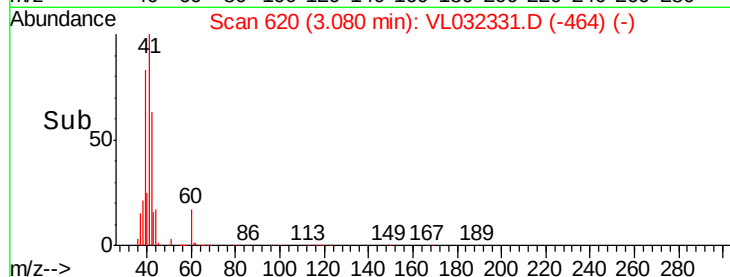
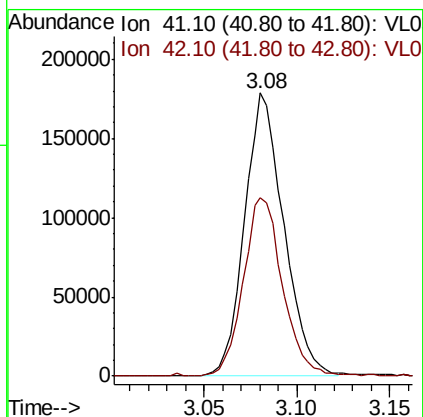
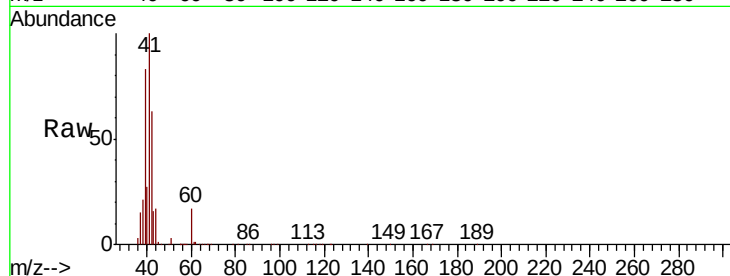
Ion Ratio Lower Upper

41 100

42 63.5 56.8 85.2

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#10

Heptane

Concen: 0.30 ppbv m

RT: 8.32 min Scan# 2250

Delta R.T. -0.01 min

Lab File: VL032331.D

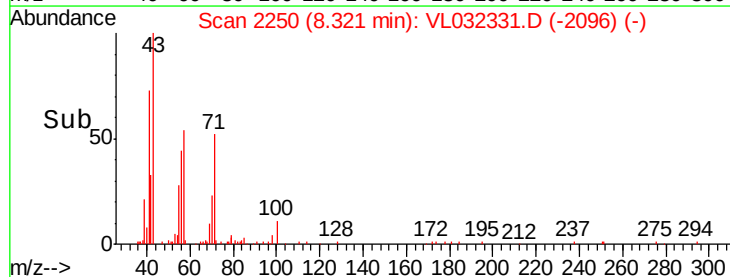
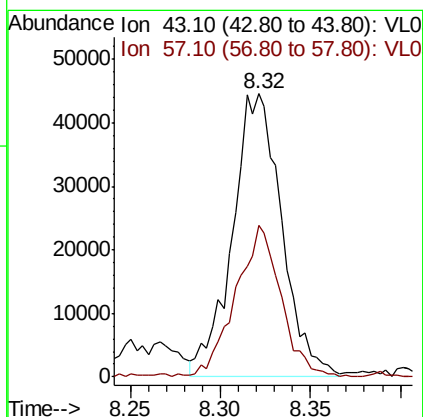
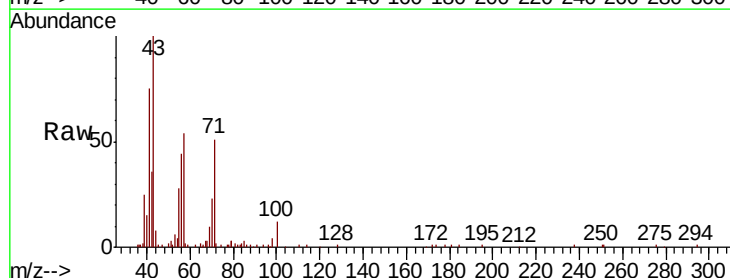
Acq: 1 Aug 2018 20:33

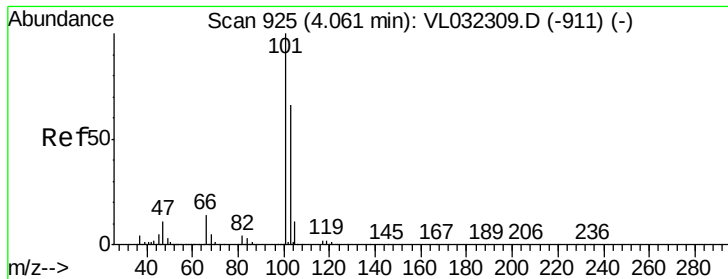
Tgt Ion: 43 Resp: 85306

Ion Ratio Lower Upper

43 100

57 0.0 39.0 58.4#





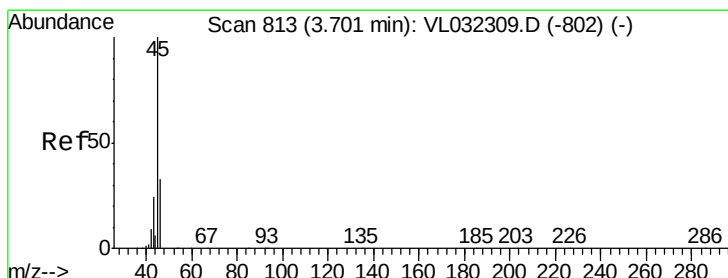
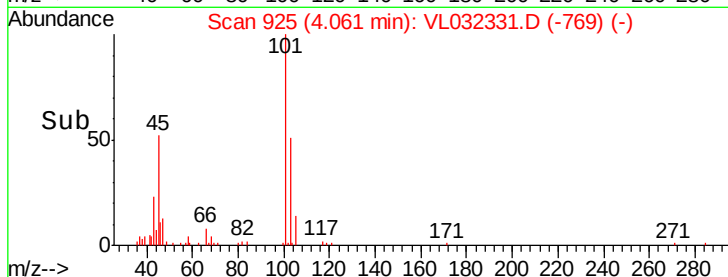
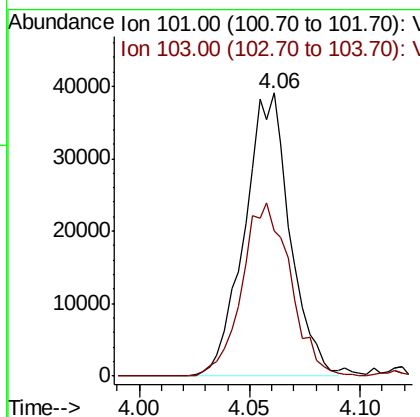
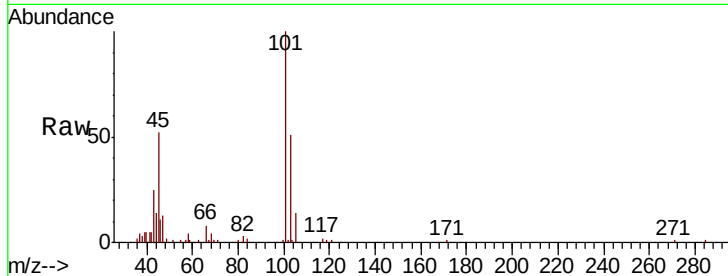
#11
 Trichlorofluoromethane
 Concen: 0.27 ppbv
 RT: 4.06 min Scan# 925
 Delta R.T. 0.00 min
 Lab File: VL032331.D
 Acq: 1 Aug 2018 20:33

Instrument :
 MSVOA_L
 ClientSampleId :
 MARKETING-CONFERENCE-ROOM

Tot Ion:101 Resp: 56098
 Ion Ratio Lower Upper
 101 100
 103 52.0 52.6 78.8#

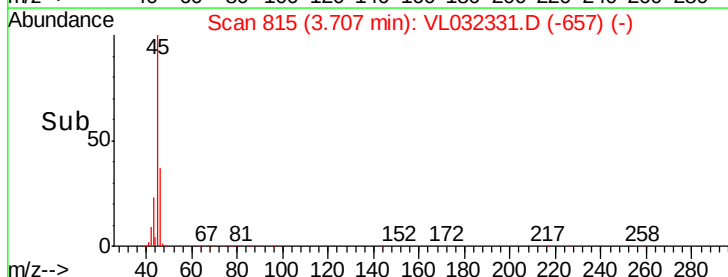
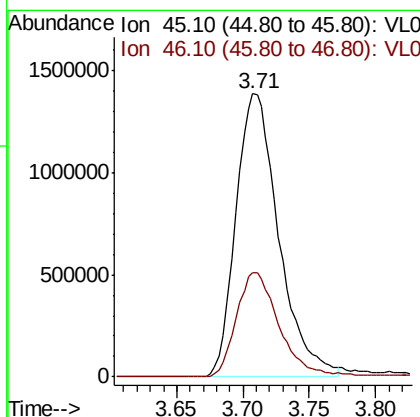
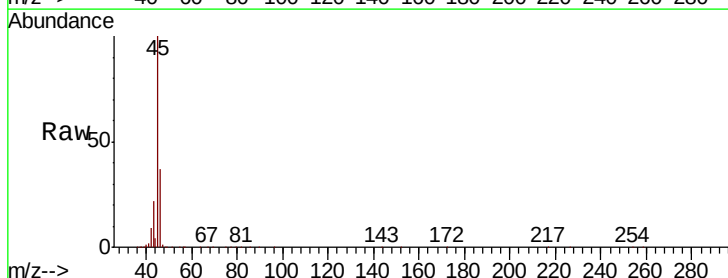
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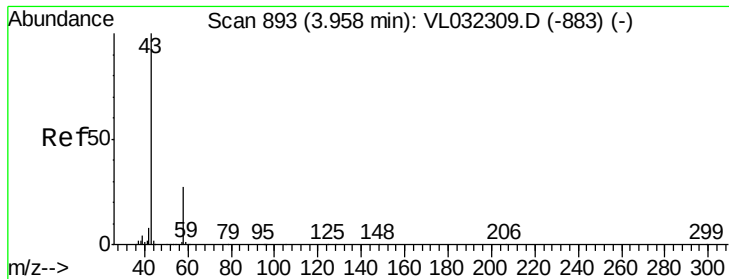
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#13
 Ethanol
 Concen: 132.96 ppbv
 RT: 3.71 min Scan# 815
 Delta R.T. 0.01 min
 Lab File: VL032331.D
 Acq: 1 Aug 2018 20:33

Tgt Ion: 45 Resp: 3110641
 Ion Ratio Lower Upper
 45 100
 46 38.3 15.2 60.6





#15

Acetone

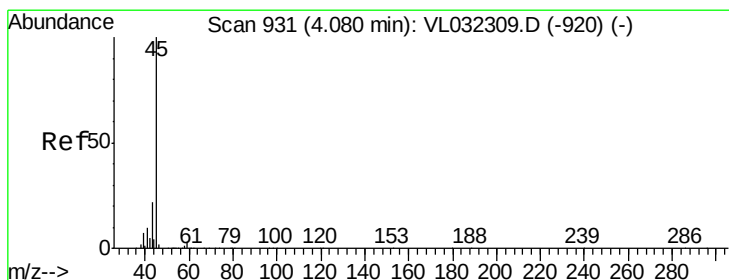
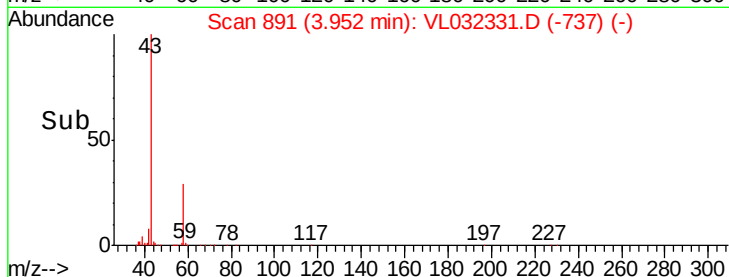
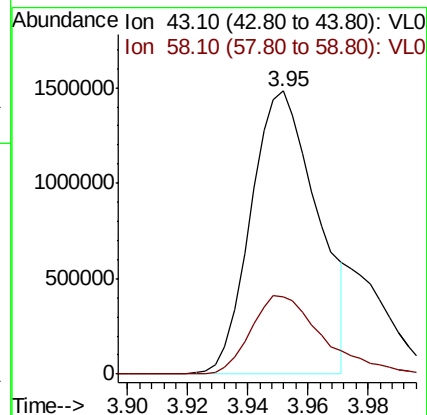
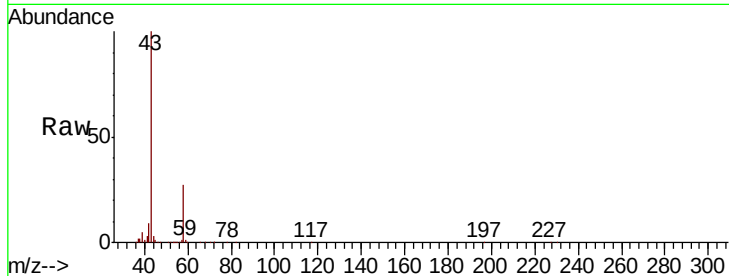
Concen: 13.35 ppbv m
RT: 3.95 min Scan# 891
Delta R.T. -0.01 min
Lab File: VL032331.D
Acq: 1 Aug 2018 20:33

Instrument :
MSVOA_L
ClientSampleId :
MARKETING-CONFERENCE-ROOM

Tot Ion: 43 Resp: 2277806
Ion Ratio Lower Upper
43 100
58 30.5 22.5 33.7

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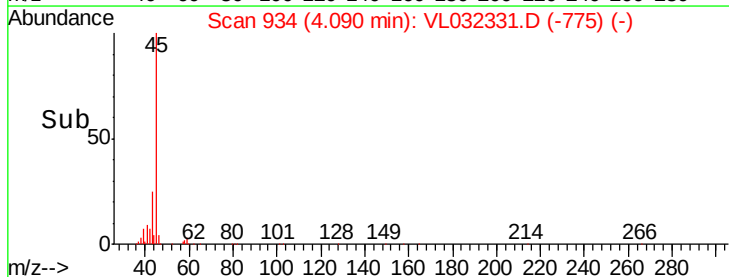
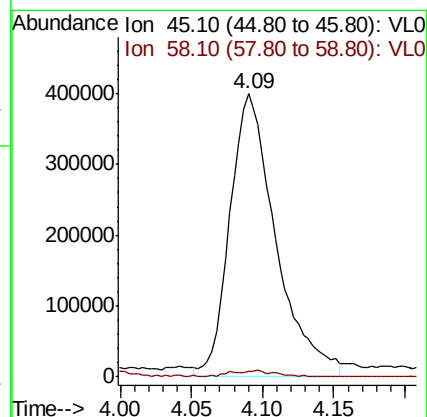
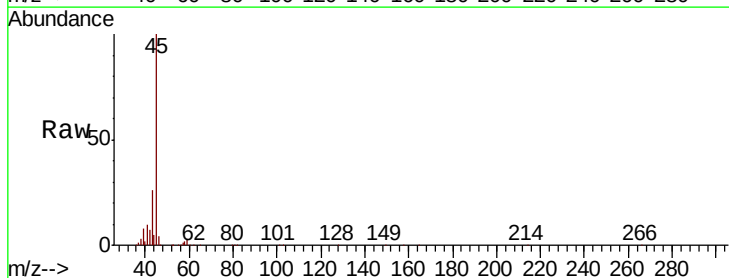


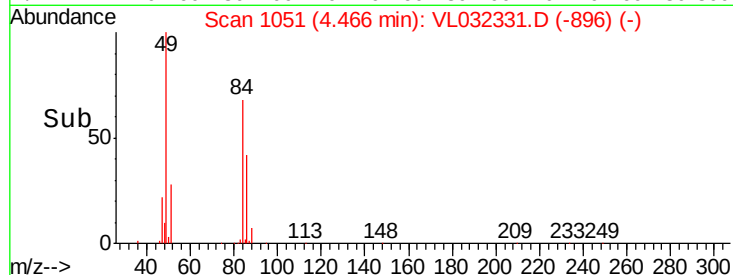
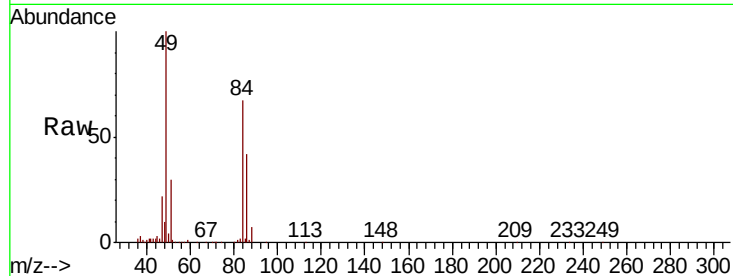
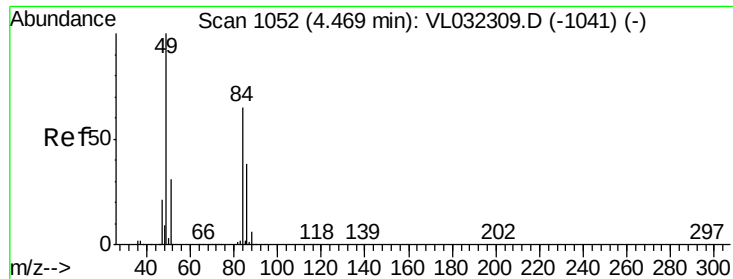
#19

Isopropyl Alcohol

Concen: 7.89 ppbv m
RT: 4.09 min Scan# 934
Delta R.T. 0.01 min
Lab File: VL032331.D
Acq: 1 Aug 2018 20:33

Tgt Ion: 45 Resp: 898743
Ion Ratio Lower Upper
45 100
58 0.0 1.5 2.3#





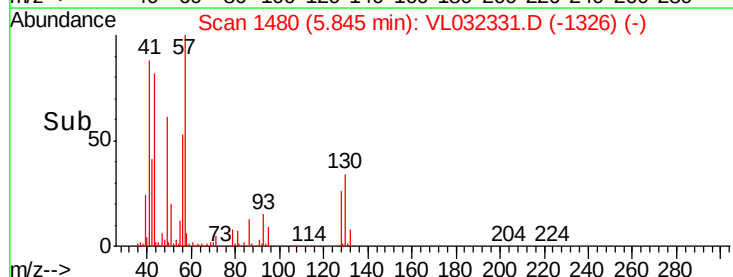
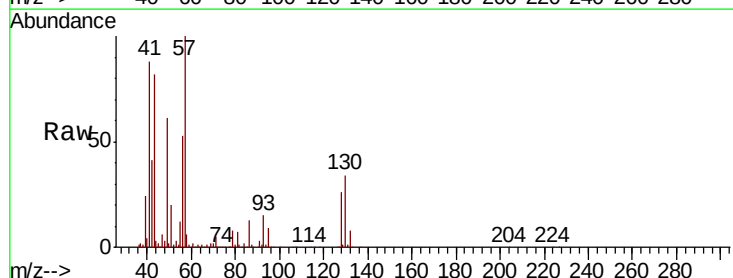
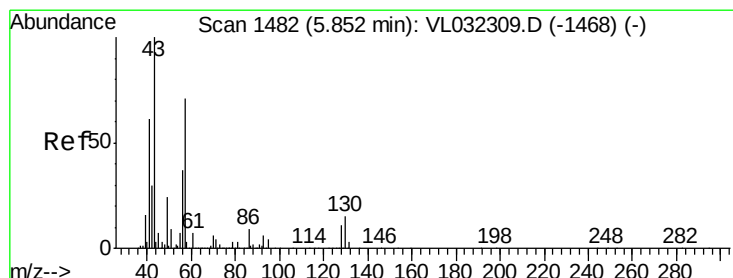
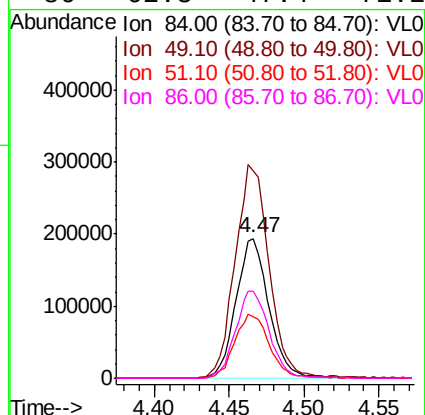
#20
Methvlene Chloride
Concen: 4.33 ppbv
RT: 4.47 min Scan# 1051
Delta R.T. -0.00 min
Lab File: VL032331.D
Acq: 1 Aug 2018 20:33

Tot Ion	Ion	Ratio	Resp	Lower	Upper
84	100				
49	148.0	123.4	185.0		
51	43.8	38.2	57.2		
86	62.3	47.4	71.2		

Instrument :
MSVOA_L
ClientSampleId :
MARKETING-CONFERENCE-ROOM

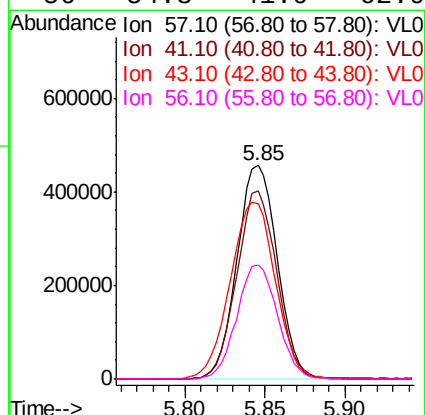
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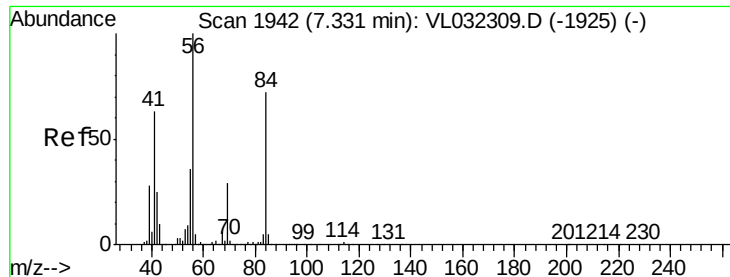
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#26
Hexane
Concen: 4.51 ppbv
RT: 5.85 min Scan# 1480
Delta R.T. -0.01 min
Lab File: VL032331.D
Acq: 1 Aug 2018 20:33

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100				
41	88.1	68.1	102.1		
43	93.7	177.4	266.2		
56	54.3	41.9	62.9		





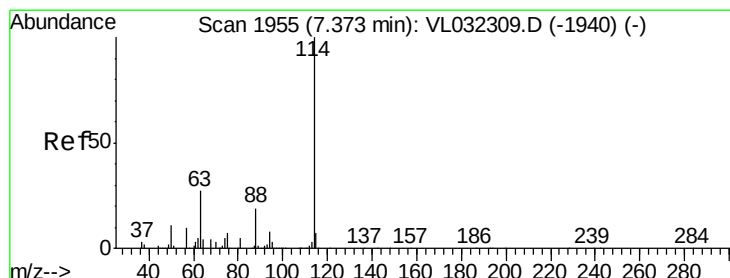
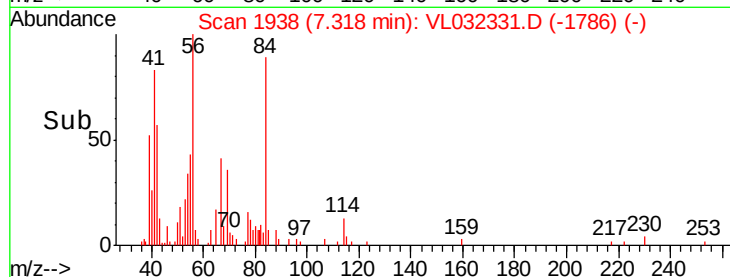
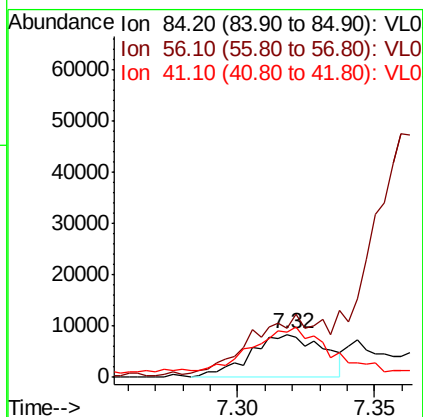
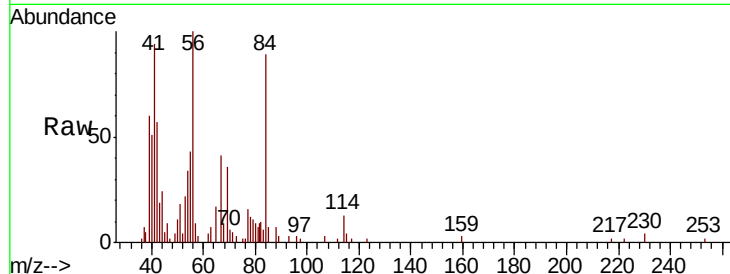
#30
Cyclohexane
Concen: 0.12 ppbv m
RT: 7.32 min Scan# 1938
Delta R.T. -0.01 min
Lab File: VL032331.D
Acq: 1 Aug 2018 20:33

Instrument :
MSVOA_L
ClientSampleId :
MARKETING-CONFERENCE-ROOM

Tot Ion	Ratio	Lower	Upper
84	100		
56	0.0	116.8	175.2#
41	112.5	70.0	105.0#

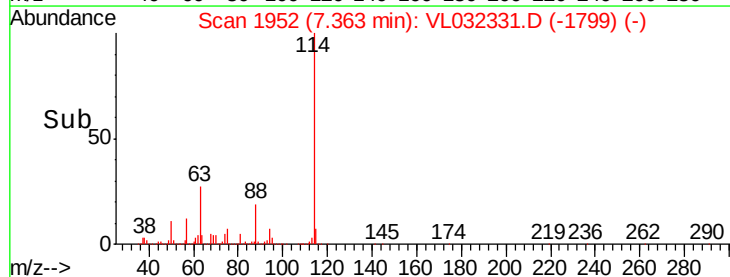
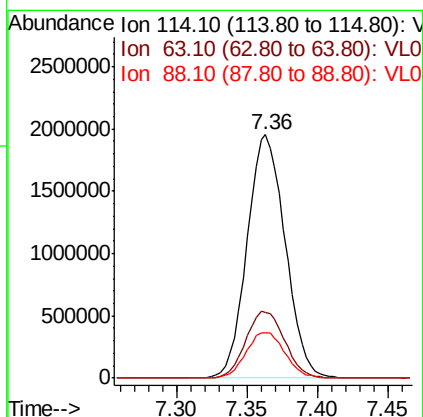
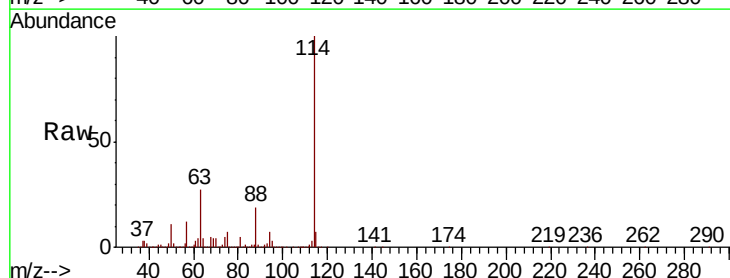
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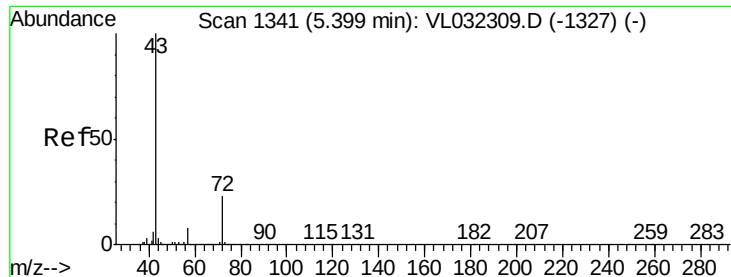
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#33
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 7.36 min Scan# 1952
Delta R.T. -0.01 min
Lab File: VL032331.D
Acq: 1 Aug 2018 20:33

Tgt Ion	Ratio	Lower	Upper
114	100		
63	28.2	22.4	33.6
88	19.2	15.3	22.9





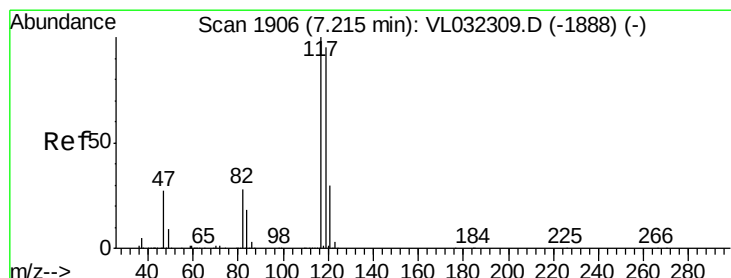
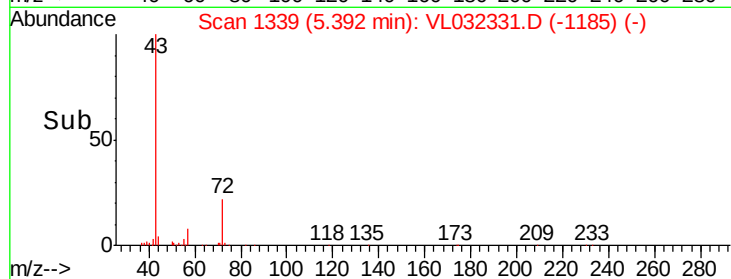
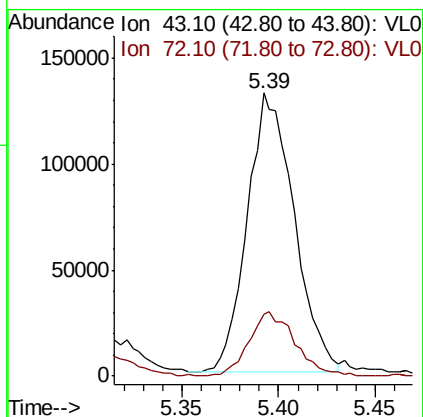
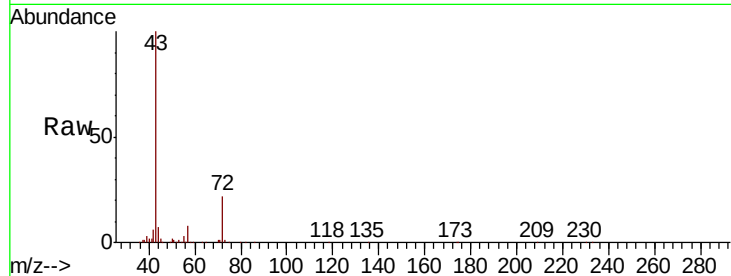
#34
2-Butanone
Concen: 0.93 ppbv
RT: 5.39 min Scan# 1339
Delta R.T. -0.01 min
Lab File: VL032331.D
Acq: 1 Aug 2018 20:33

Instrument :
MSVOA_L
ClientSampleId :
MARKETING-CONFERENCE-ROOM

Tot Ion	43	Resp	222891
Ion Ratio	Lower	Upper	
43	100		
72	22.1	17.4	26.2

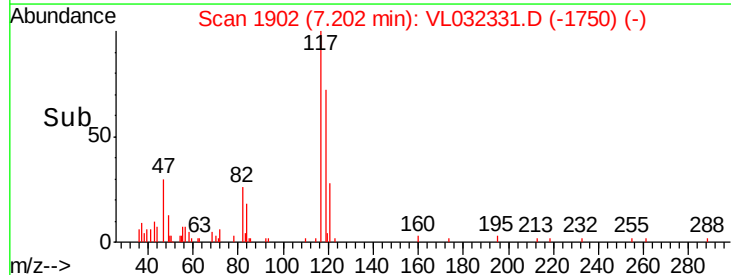
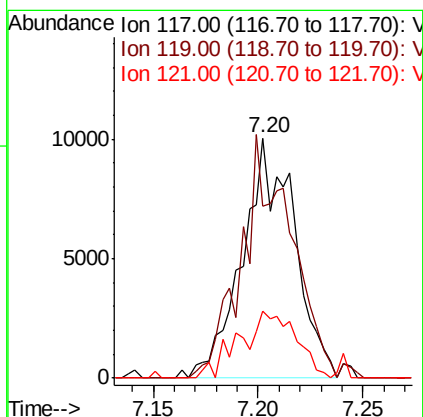
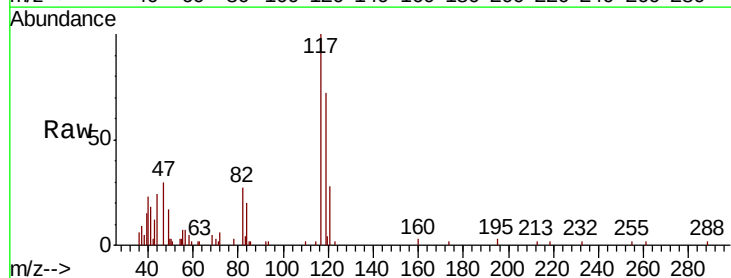
Manual Integrations
APPROVED

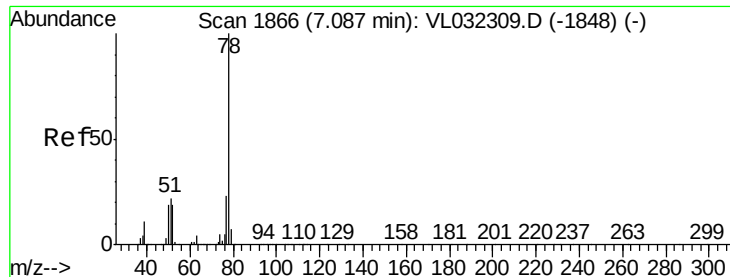
MMDadoda
8/2/2018 2:04:56 PM



#35
Carbon Tetrachloride
Concen: 0.08 ppbv m
RT: 7.20 min Scan# 1902
Delta R.T. -0.01 min
Lab File: VL032331.D
Acq: 1 Aug 2018 20:33

Tgt Ion	117	Resp	17258
Ion Ratio	Lower	Upper	
117	100		
119	71.7	76.1	114.1#
121	28.2	24.4	36.6





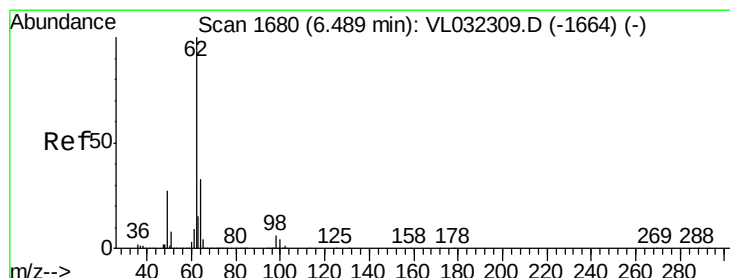
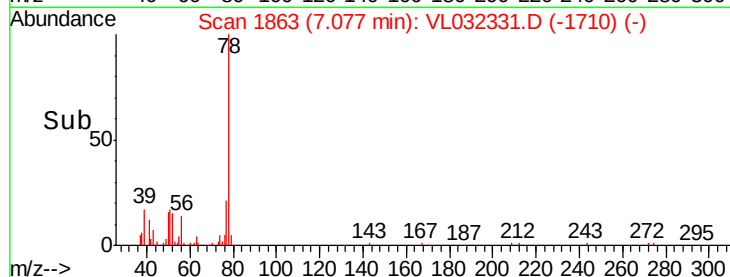
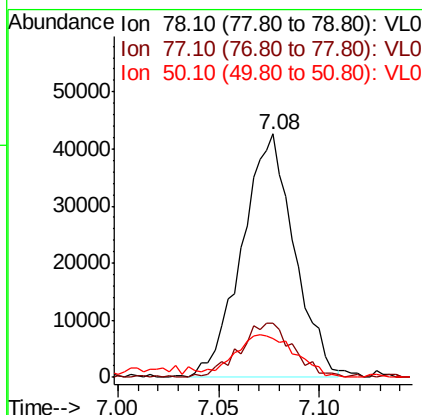
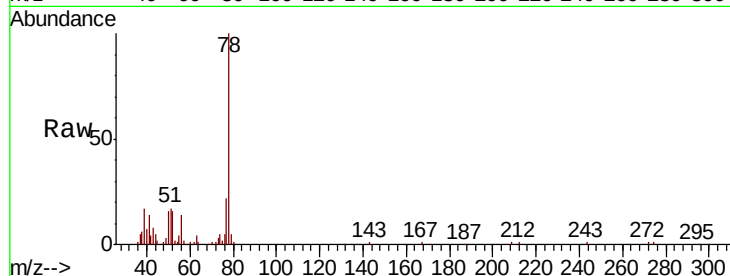
#36
Benzene
Concen: 0.24 ppbv
RT: 7.08 min Scan# 1863
Delta R.T. -0.01 min
Lab File: VL032331.D
Acq: 1 Aug 2018 20:33

Instrument :
MSVOA_L
ClientSampleId :
MARKETING-CONFERENCE-ROOM

Tot Ion	Ratio	Lower	Upper
78	100		
77	22.0	18.4	27.6
50	14.0	15.3	22.9#

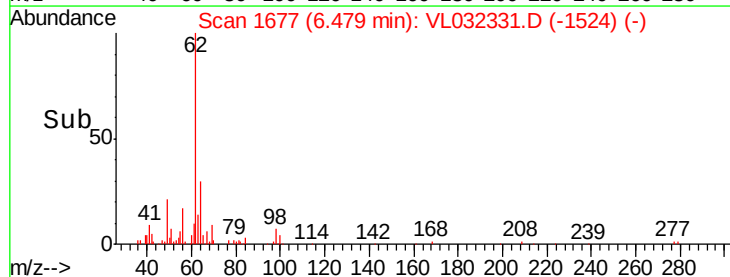
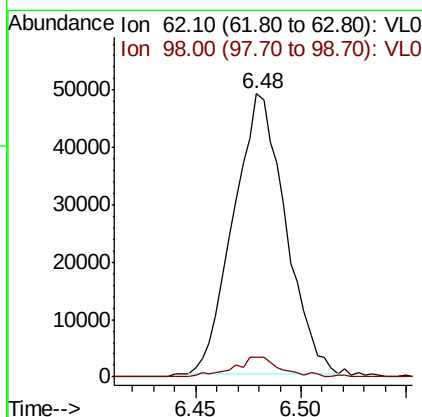
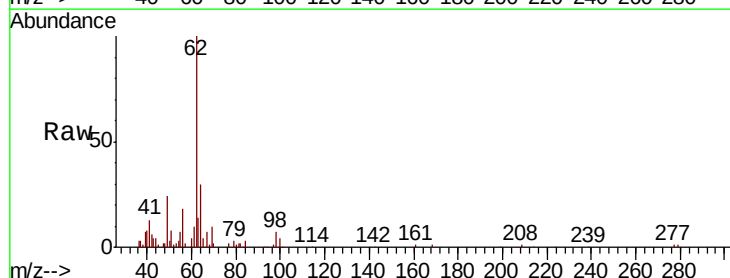
Manual Integrations
APPROVED

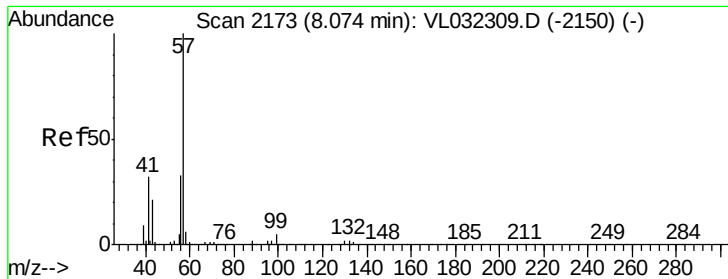
MMDadoda
8/2/2018 2:04:56 PM



#37
1,2-Dichloroethane
Concen: 0.45 ppbv
RT: 6.48 min Scan# 1677
Delta R.T. -0.01 min
Lab File: VL032331.D
Acq: 1 Aug 2018 20:33

Tgt Ion	Ratio	Lower	Upper
62	100		
98	6.6	5.1	7.7





#44

2,2,4-Trimethylpentane

Concen: 0.13 ppbv

RT: 8.07 min Scan# 2171

Delta R.T. -0.01 min

Lab File: VL032331.D

Acq: 1 Aug 2018 20:33

Instrument :

MSVOA_L

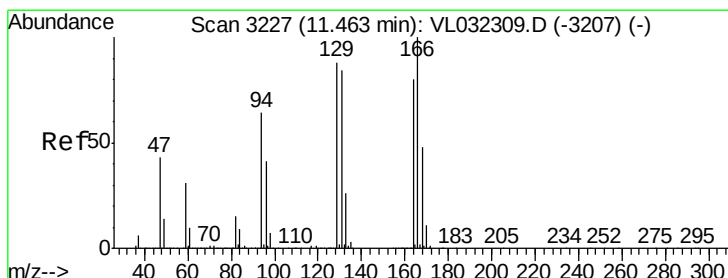
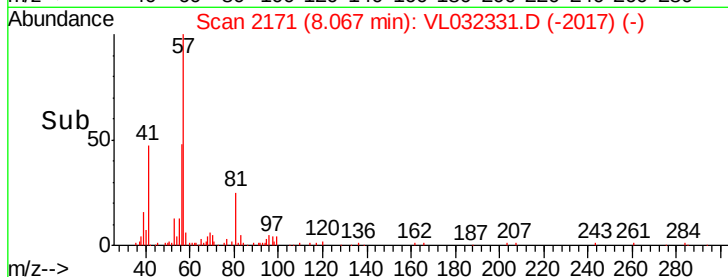
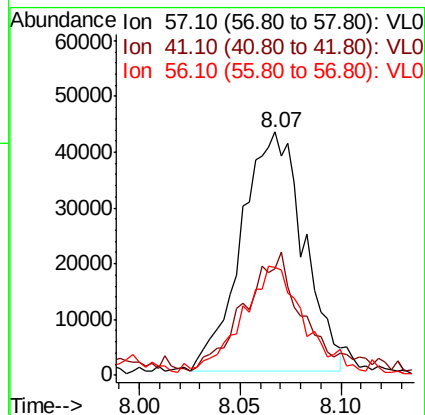
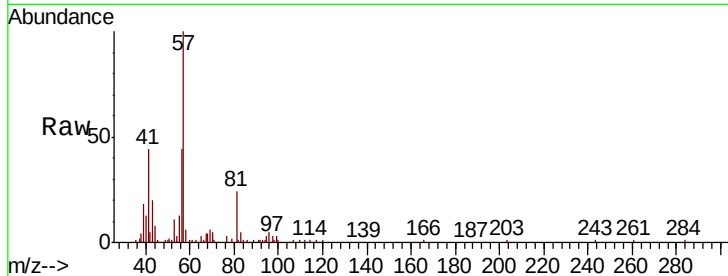
ClientSampleId :

MARKETING-CONFERENCE-ROOM

Tot Ion	57	Resp	92495
Ion Ratio	Lower	Upper	
57	100		
41	50.6	24.3	36.5#
56	48.7	25.4	38.2#

Manual Integrations
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8/2/2018 2:04:56 PM



#52

Tetrachloroethene

Concen: 0.03 ppbv m

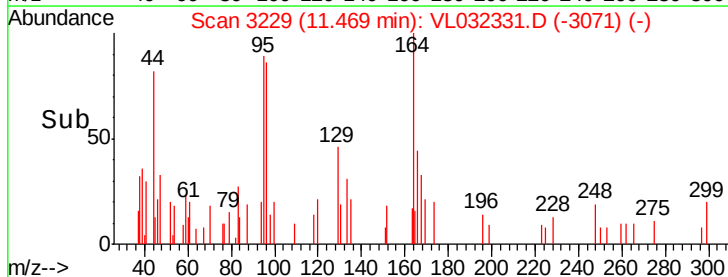
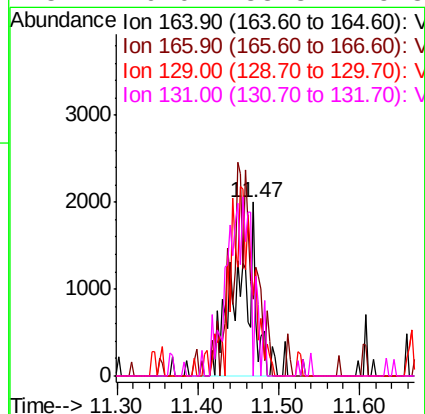
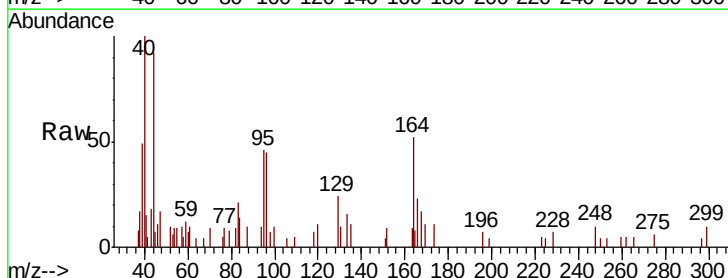
RT: 11.47 min Scan# 3229

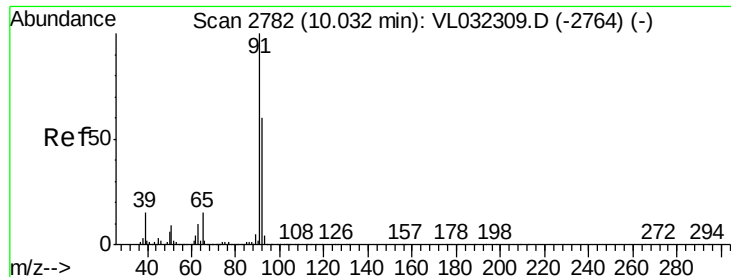
Delta R.T. 0.01 min

Lab File: VL032331.D

Acq: 1 Aug 2018 20:33

Tgt Ion	164	Resp	3313
Ion Ratio	Lower	Upper	
164	100		
166	44.3	100.0	150.0#
129	46.3	87.9	131.9#
131	0.0	83.8	125.8#





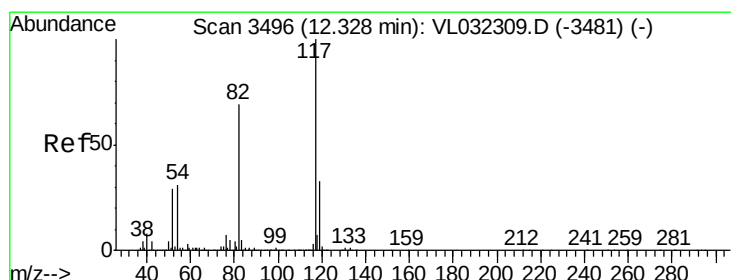
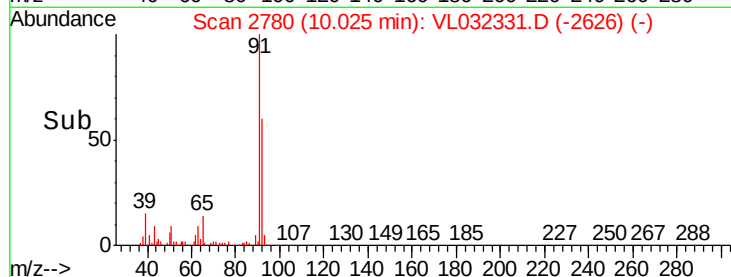
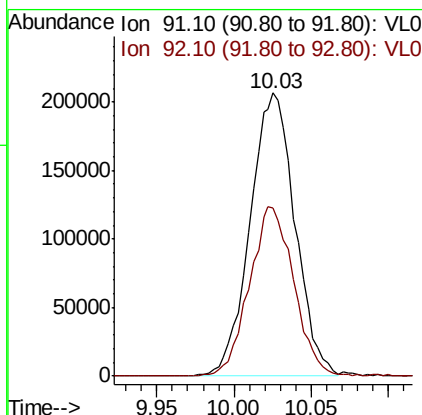
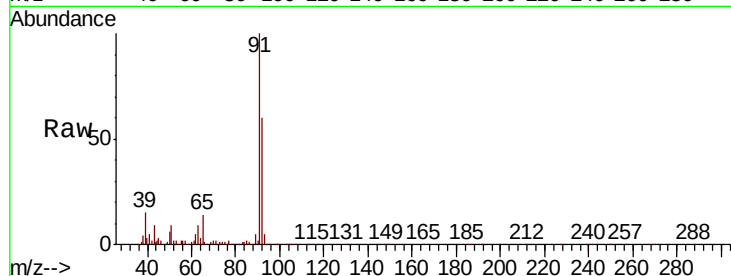
#53
Toluene
Concen: 1.07 ppbv
RT: 10.03 min Scan# 2780
Delta R.T. -0.01 min
Lab File: VL032331.D
Acq: 1 Aug 2018 20:33

Instrument :
MSVOA_L
ClientSampleId :
MARKETING-CONFERENCE-ROOM

Tot Ion	Ion	Ratio	Resp	Lower	Upper
91	100		416232		
92	59.5	48.6	72.8		

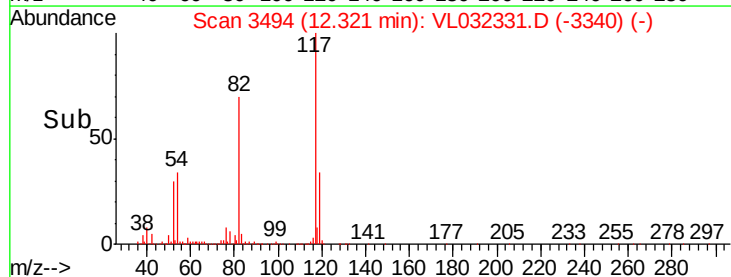
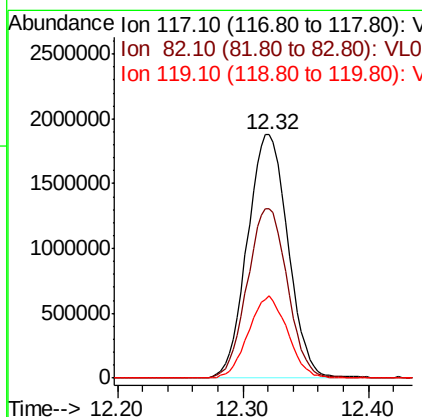
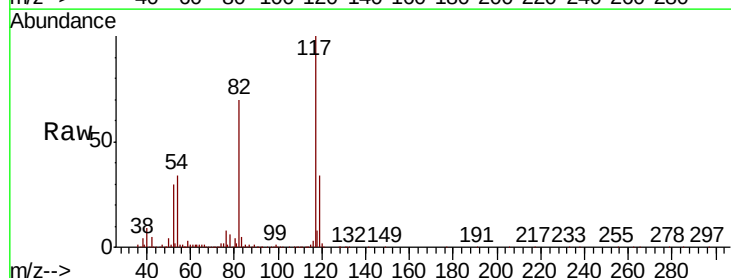
Manual Integrations
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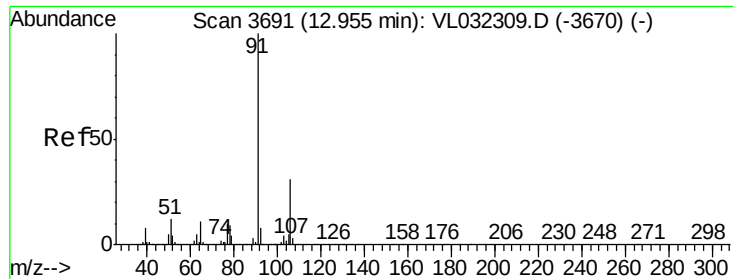
MMDadoda
8/2/2018 2:04:56 PM



#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.32 min Scan# 3494
Delta R.T. -0.01 min
Lab File: VL032331.D
Acq: 1 Aug 2018 20:33

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
117	100		4225990		
82	69.6	52.6	78.8		
119	32.6	25.7	38.5		





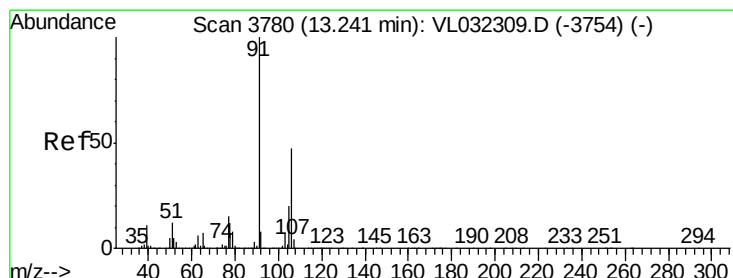
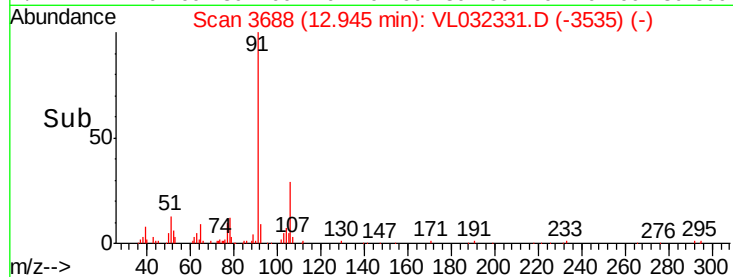
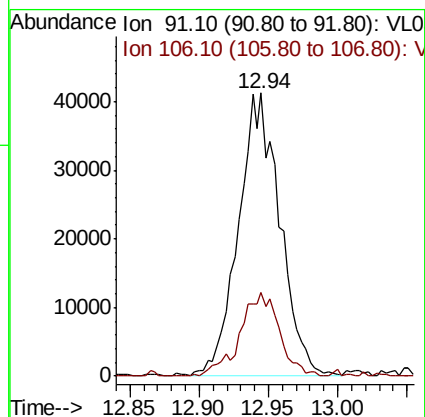
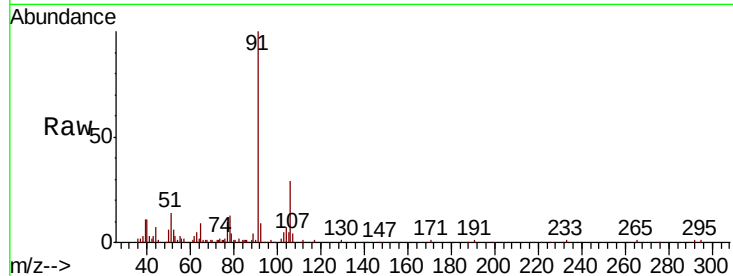
#58
Ethyl Benzene
Concen: 0.16 ppbv m
RT: 12.94 min Scan# 3688
Delta R.T. -0.01 min
Lab File: VL032331.D
Acq: 1 Aug 2018 20:33

Instrument :
MSVOA_L
ClientSampleId :
MARKETING-CONFERENCE-ROOM

Tot Ion: 91 Resp: 86167
Ion Ratio Lower Upper
91 100
106 29.4 25.0 37.4

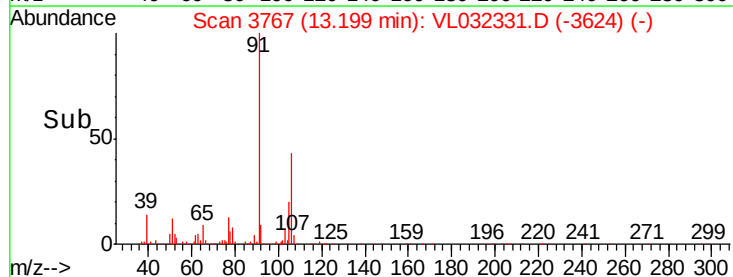
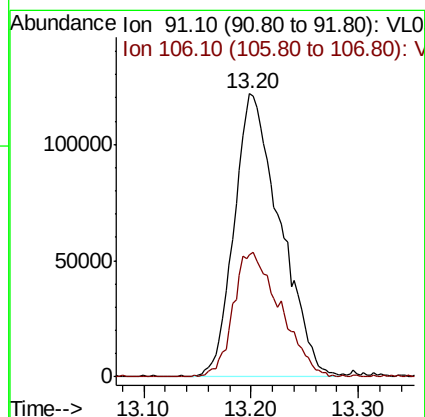
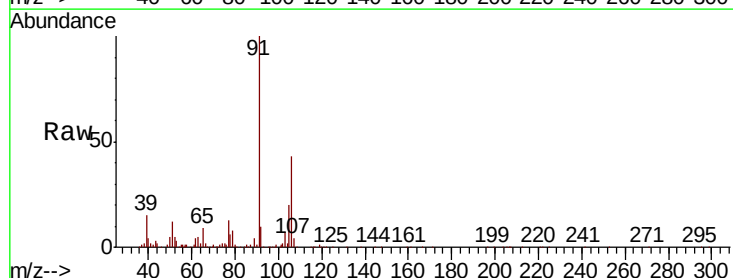
Manual Integrations
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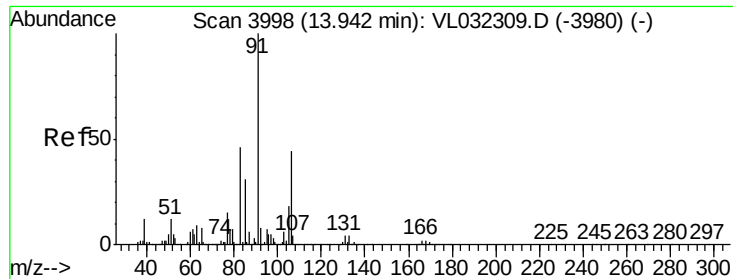
MMDadoda
8/2/2018 2:04:56 PM



#59
m/p-Xylene
Concen: 0.80 ppbv m
RT: 13.20 min Scan# 3767
Delta R.T. -0.04 min
Lab File: VL032331.D
Acq: 1 Aug 2018 20:33

Tgt Ion: 91 Resp: 361819
Ion Ratio Lower Upper
91 100
106 0.0 36.4 54.6#





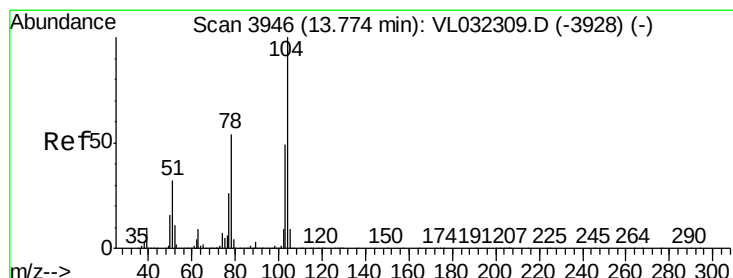
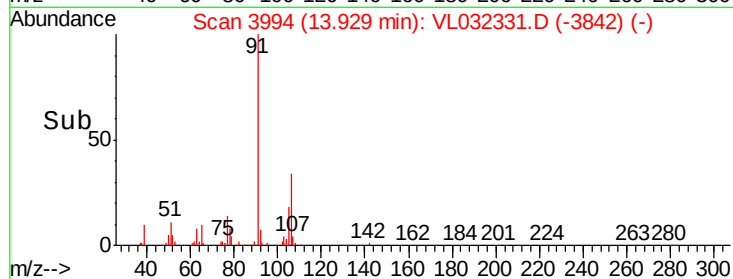
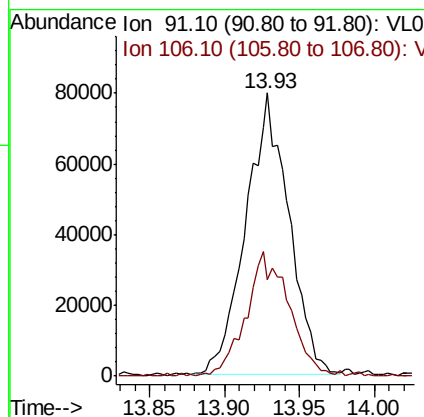
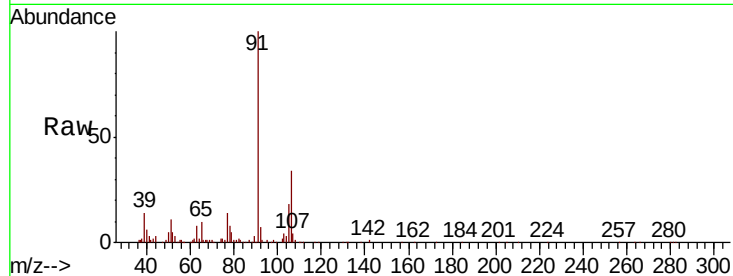
#60
o-Xylene
Concen: 0.36 ppbv
RT: 13.93 min Scan# 3994
Delta R.T. -0.01 min
Lab File: VL032331.D
Acq: 1 Aug 2018 20:33

Instrument :
MSVOA_L
ClientSampleId :
MARKETING-CONFERENCE-ROOM

Tot Ion	Ratio	Resp	Lower	Upper
91	100	159525		
106	44.4	22.4	22.4	67.0

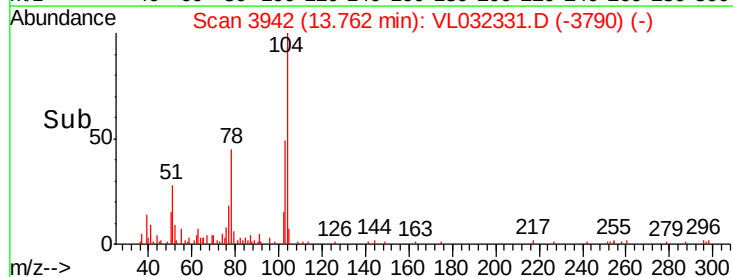
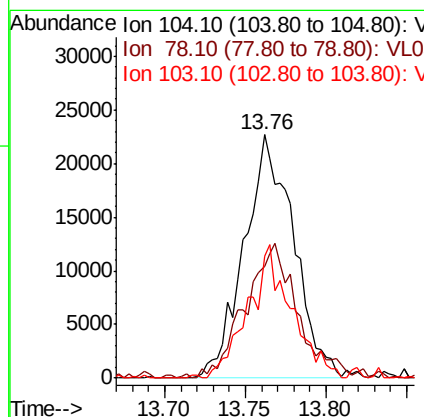
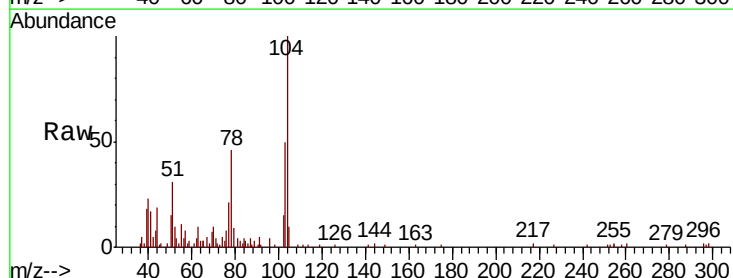
Manual Integrations
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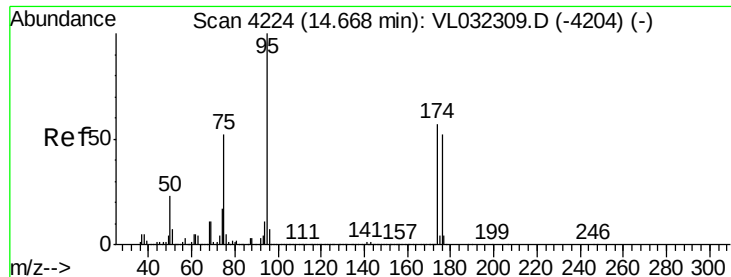
MMDadoda
8/2/2018 2:04:56 PM



#61
Styrene
Concen: 0.15 ppbv m
RT: 13.76 min Scan# 3942
Delta R.T. -0.01 min
Lab File: VL032331.D
Acq: 1 Aug 2018 20:33

Tgt Ion	Ratio	Resp	Lower	Upper
104	100	47886		
78	59.7	42.6	42.6	63.8
103	49.4	38.0	38.0	57.0





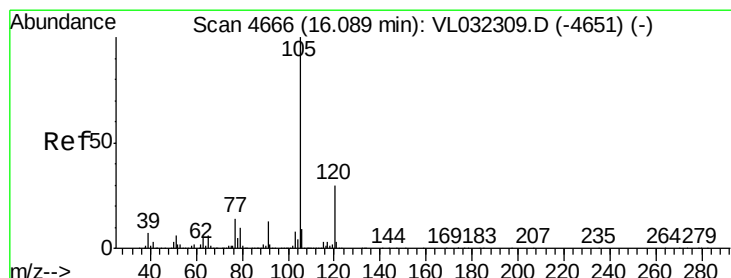
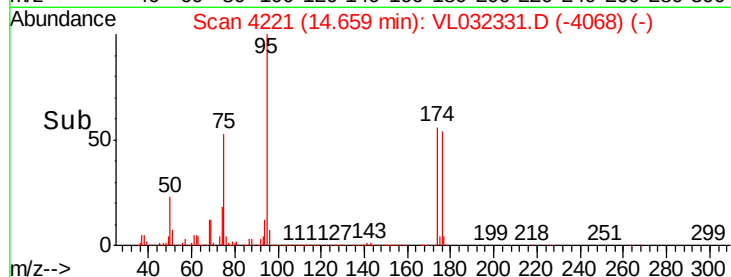
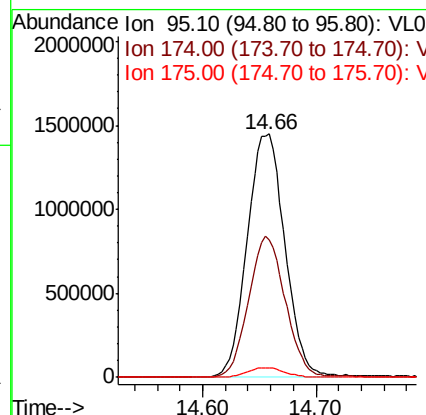
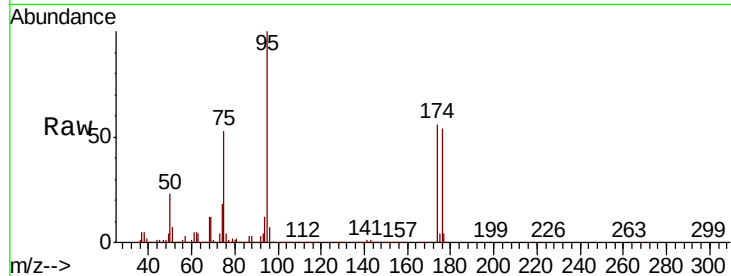
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.26 ppbv
 RT: 14.66 min Scan# 4221
 Delta R.T. -0.01 min
 Lab File: VL032331.D
 Acq: 1 Aug 2018 20:33

Instrument :
 MSVOA_L
 ClientSampleId :
 MARKETING-CONFERENCE-ROOM

Tot Ion: 95 Resp: 3366965
 Ion Ratio Lower Upper
 95 100
 174 57.0 45.5 68.3
 175 4.1 3.3 4.9

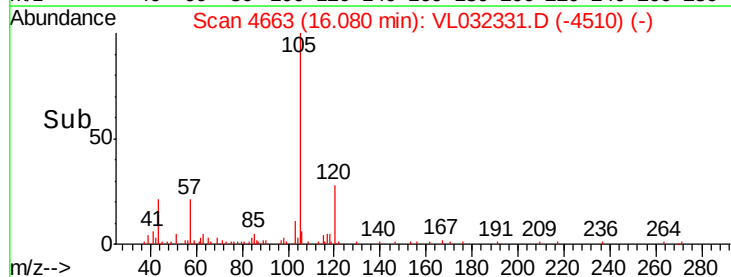
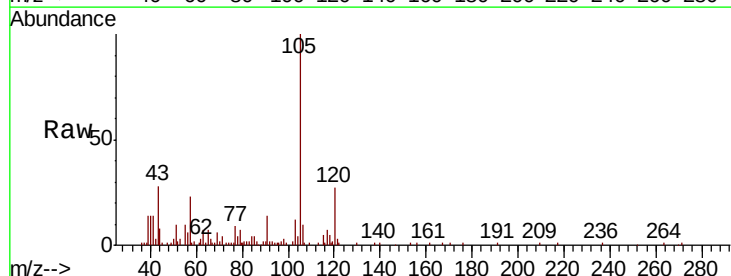
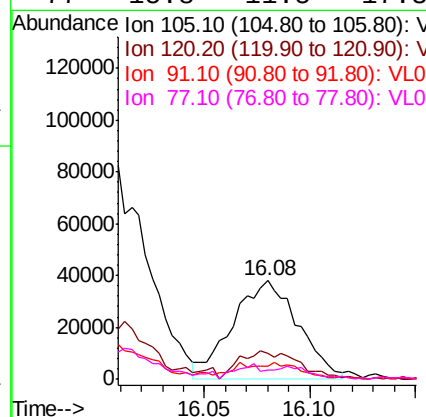
Manual Integrations
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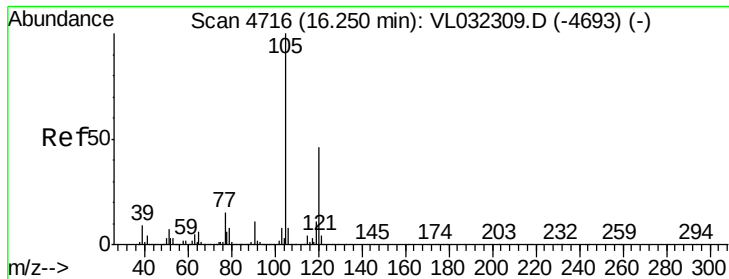
MMDadoda
 8/2/2018 2:04:56 PM



#72
 4-Ethyltoluene
 Concen: 0.16 ppbv
 RT: 16.08 min Scan# 4663
 Delta R.T. -0.01 min
 Lab File: VL032331.D
 Acq: 1 Aug 2018 20:33

Tgt Ion: 105 Resp: 81128
 Ion Ratio Lower Upper
 105 100
 120 29.5 23.1 34.7
 91 17.9 10.0 15.0#
 77 15.8 11.5 17.3





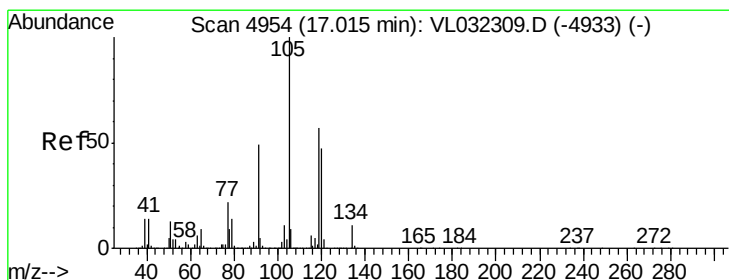
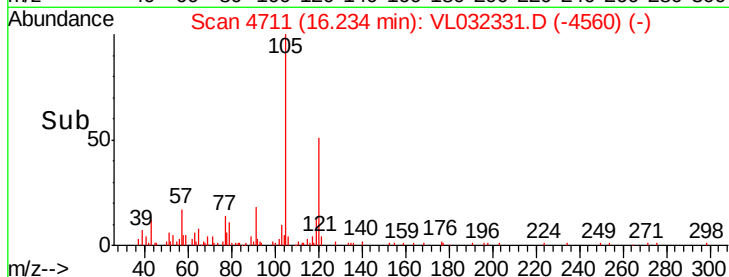
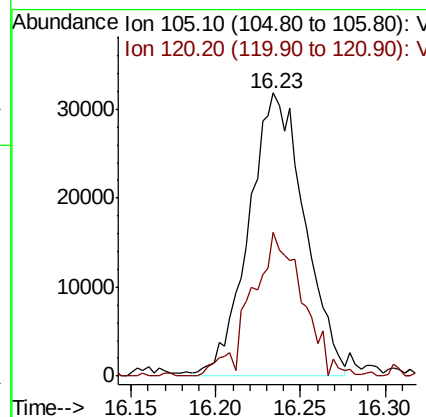
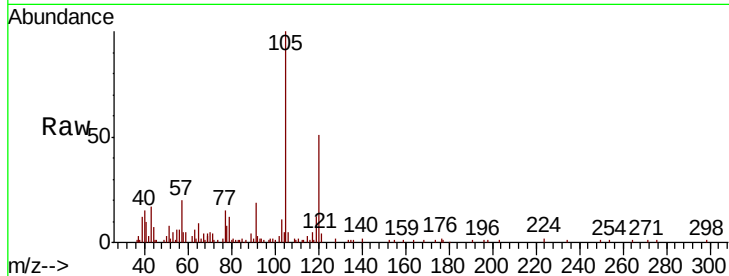
#73
 1,3,5-Trimethylbenzene
 Concen: 0.15 ppbv m
 RT: 16.23 min Scan# 4711
 Delta R.T. -0.02 min
 Lab File: VL032331.D
 Acq: 1 Aug 2018 20:33

Instrument :
 MSVOA_L
 ClientSampleId :
 MARKETING-CONFERENCE-ROOM

Tot Ion	Ratio	Lower	Upper
105	100		
120	51.0	36.5	54.7

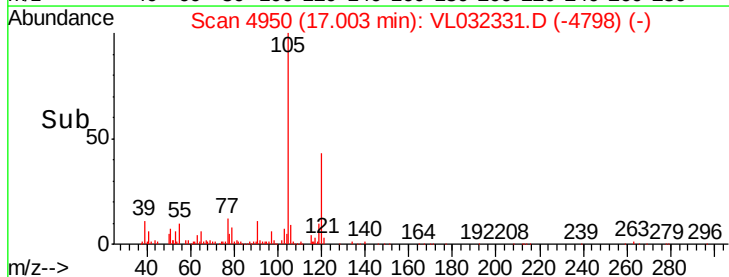
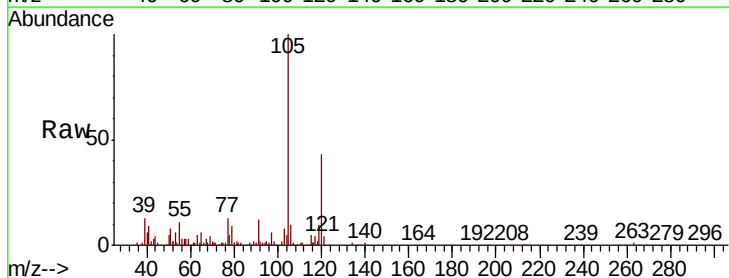
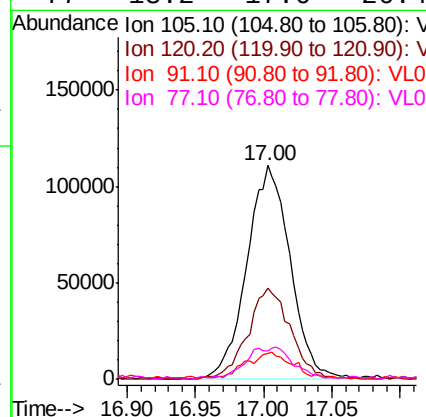
Manual Integrations
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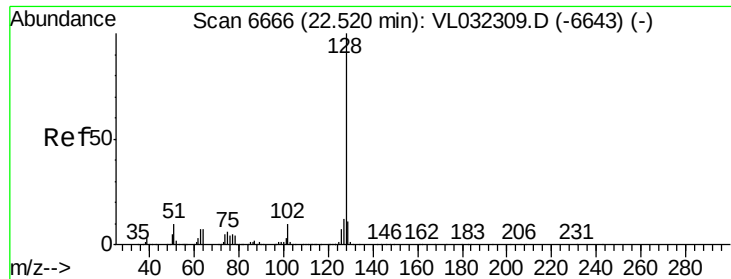
MMDadoda
 8/2/2018 2:04:56 PM



#74
 1,2,4-Trimethylbenzene
 Concen: 0.47 ppbv
 RT: 17.00 min Scan# 4950
 Delta R.T. -0.01 min
 Lab File: VL032331.D
 Acq: 1 Aug 2018 20:33

Tgt Ion	Ratio	Lower	Upper
105	100		
120	42.7	37.8	56.6
91	10.8	39.4	59.0#
77	13.2	17.6	26.4#





#79

Naphthalene

Concen: 0.57 ppbv m

RT: 22.51 min Scan# 6663

Delta R.T. -0.01 min

Lab File: VL032331.D

Acq: 1 Aug 2018 20:33

Instrument :

MSVOA_L

ClientSampleId :

MARKETING-CONFERENCE-ROOM

Tot Ion:	128	Resp:	255658
Ion Ratio		Lower	Upper
128	100		
127	9.6	9.9	14.9#
129	8.5	8.8	13.2#

Manual Integrations
APPROVED

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8/2/2018 2:04:56 PM

