

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120418\
 Data File : VL032877.D
 Acq On : 4 Dec 2018 15:26
 Operator : SY/AP
 Sample : J6175-01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MMSV-06

Manual Integrations
 APPROVED

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 12/10/2018 12:59:48 PM

Quant Time: Dec 05 14:58:16 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 14 2018
 QLast Update : Wed Nov 14 07:00:23 2018
 Response via : Initial Calibration

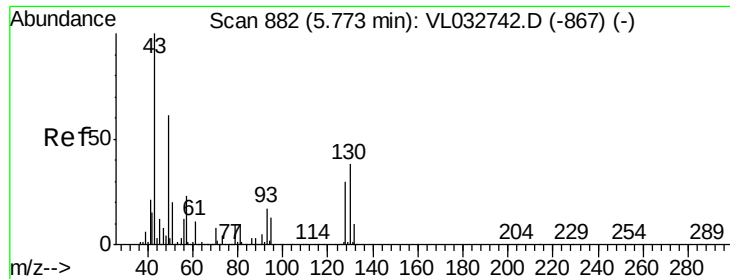
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.78	49	1263990	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.31	114	3410153	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3599508	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	2867712	10.65	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	54417	0.299	ppbv	97
3) Chlorodifluoromethane	3.02	51	53757	0.536	ppbv	96
4) Chloromethane	3.18	50	30699	0.552	ppbv	93
9) Propene	3.04	41	3699857	92.260	ppbv	97
10) Heptane	8.27	43	5950719	38.868	ppbv	100
11) Trichlorofluoromethane	4.02	101	44499	0.260	ppbv	95
13) Ethanol	3.66	45	407504	31.024	ppbv	100
15) Acetone	3.90	43	6234726m	54.013	ppbv	
20) Methylene Chloride	4.43	84	124402	2.082	ppbv #	94
26) Hexane	5.80	57	3936935	32.873	ppbv #	41
27) Carbon Disulfide	4.63	76	7559771	49.782	ppbv	98
29) Chloroform	5.87	83	166734	0.781	ppbv	97
30) Cyclohexane	7.26	84	1676531	16.006	ppbv #	71
34) 2-Butanone	5.34	43	13912261	78.657	ppbv #	90
35) Carbon Tetrachloride	7.16	117	14691m	0.054	ppbv	
36) Benzene	7.02	78	5649085	20.803	ppbv	98
38) Trichloroethene	7.98	130	9776m	0.089	ppbv	
41) Tetrahydrofuran	6.15	42	2107672	20.774	ppbv	97
44) 2,2,4-Trimethylpentane	8.01	57	1223126	2.695	ppbv #	12
51) 2-Hexanone	10.27	43	2995369	16.830	ppbv #	71
52) Tetrachloroethene	11.38	164	13004m	0.138	ppbv	
53) Toluene	9.96	91	5869194	20.717	ppbv	99
58) Ethyl Benzene	12.88	91	1968079	4.543	ppbv	99
59) m/p-Xylene	13.14	91	3752069	9.730	ppbv	97
60) o-Xylene	13.86	91	1650139	4.256	ppbv	98
61) Styrene	13.70	104	140638	0.557	ppbv	96
62) Isopropylbenzene	14.84	105	317972	0.607	ppbv	97
64) n-propylbenzene	15.74	120	78079	0.566	ppbv	83
67) sec-Butylbenzene	17.47	105	133106	0.197	ppbv	96
69) p-Isopropyltoluene	17.83	119	95668m	0.178	ppbv	
72) 4-Ethyltoluene	16.01	105	330169	0.777	ppbv	97
73) 1,3,5-Trimethylbenzene	16.17	105	319760	0.769	ppbv	90
74) 1,2,4-Trimethylbenzene	16.94	105	592956	1.333	ppbv #	70

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.78 min Scan# 884

Delta R.T. 0.01 min

Lab File: VL032877.D

Acq: 4 Dec 2018 15:26

Instrument :

MSVOA_L

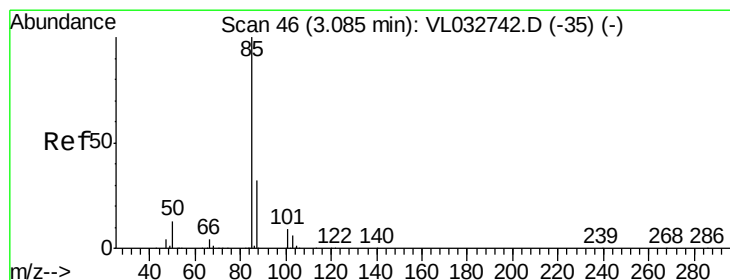
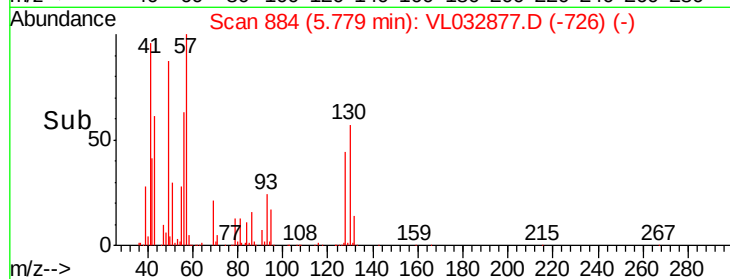
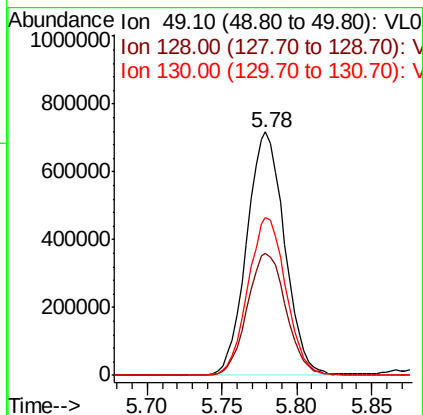
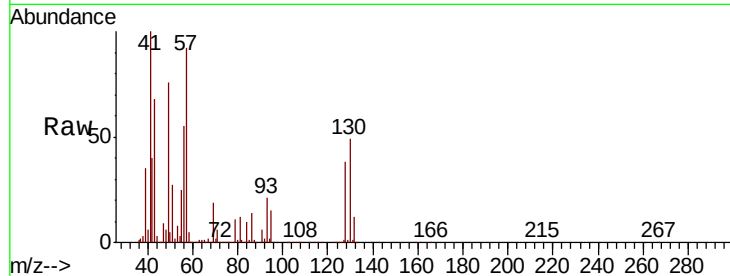
ClientSampleId :

MMSV-06

Tot Ion:	49	Resp:	1263990
Ion	Ratio	Lower	Upper
49	100		
128	51.8	24.9	74.6
130	65.3	31.4	94.2

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#2

Dichlorodifluoromethane

Concen: 0.299 ppbv

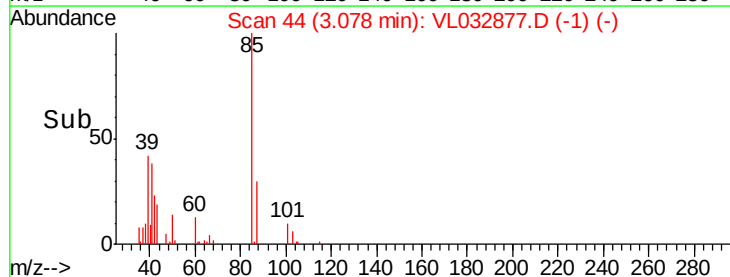
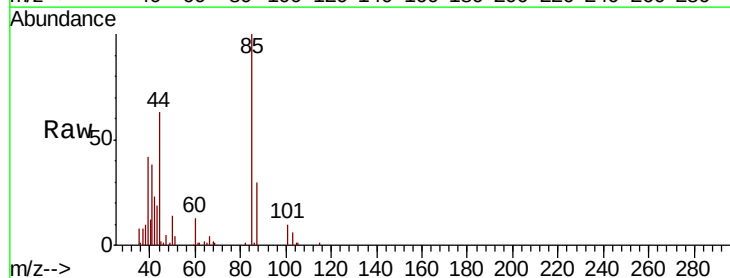
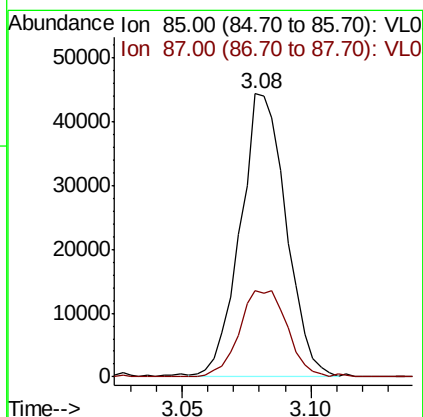
RT: 3.08 min Scan# 44

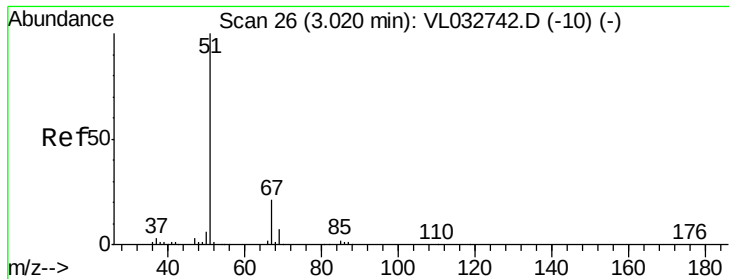
Delta R.T. -0.01 min

Lab File: VL032877.D

Acq: 4 Dec 2018 15:26

Tgt Ion:	85	Resp:	54417
Ion	Ratio	Lower	Upper
85	100		
87	30.6	26.0	39.0





#3

Chlorodifluoromethane

Concen: 0.536 ppbv

RT: 3.02 min Scan# 26

Delta R.T. 0.00 min

Lab File: VL032877.D

Acq: 4 Dec 2018 15:26

Instrument :

MSVOA_L

ClientSampleId :

MMSV-06

Tot Ion: 51 Resp: 53757

Ion Ratio Lower Upper

51 100

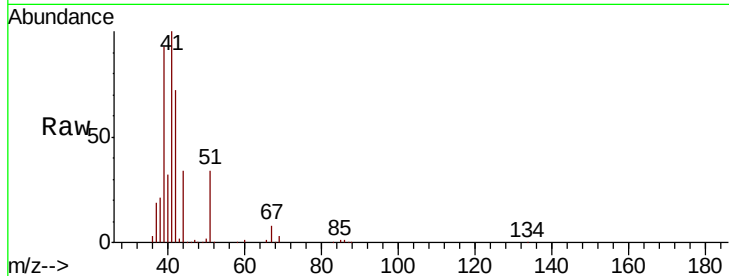
67 18.1 16.1 24.1

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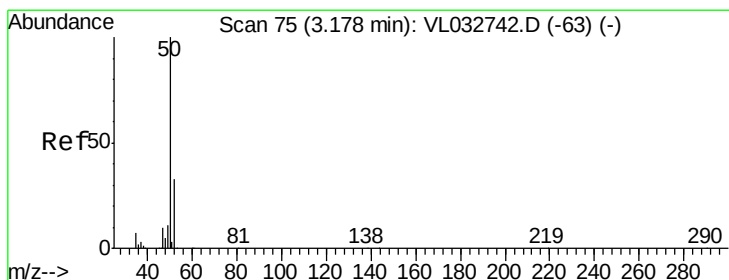
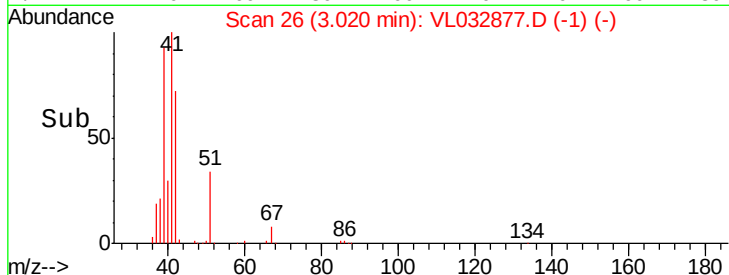
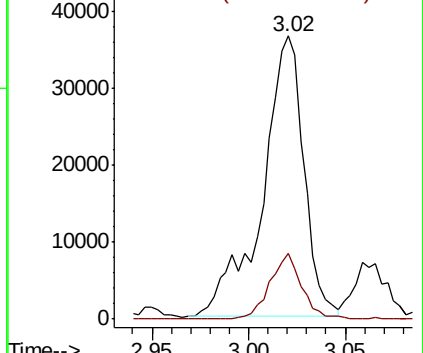
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.552 ppbv

RT: 3.18 min Scan# 75

Delta R.T. 0.00 min

Lab File: VL032877.D

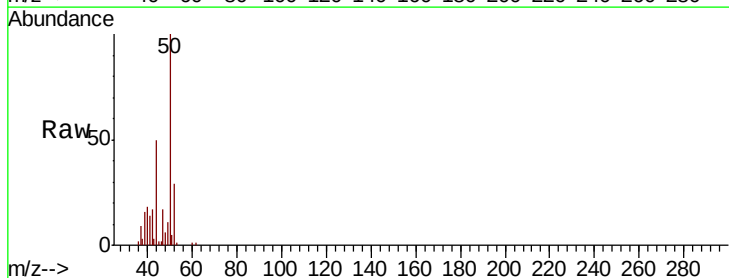
Acq: 4 Dec 2018 15:26

Tgt Ion: 50 Resp: 30699

Ion Ratio Lower Upper

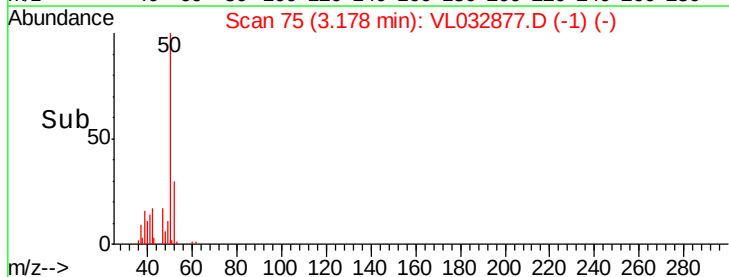
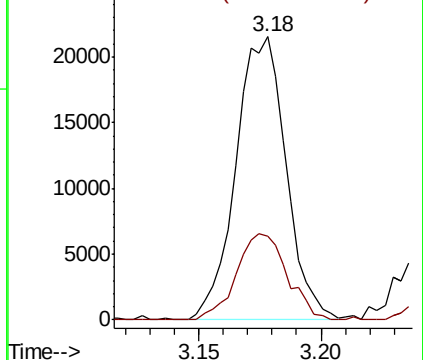
50 100

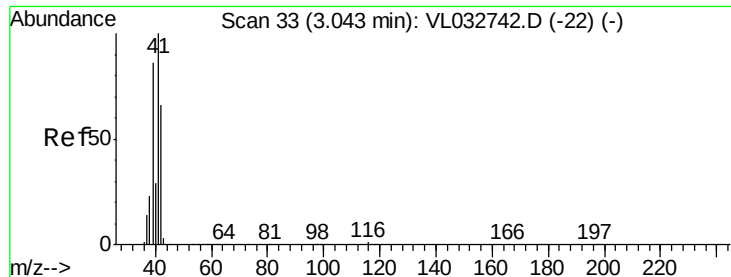
52 29.5 26.6 40.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 92.260 ppbv

RT: 3.04 min Scan# 33

Delta R.T. 0.00 min

Lab File: VL032877.D

Acq: 4 Dec 2018 15:26

Instrument :

MSVOA_L

ClientSampleId :

MMSV-06

Tot Ion: 41 Resp: 3699857

Ion Ratio Lower Upper

41 100

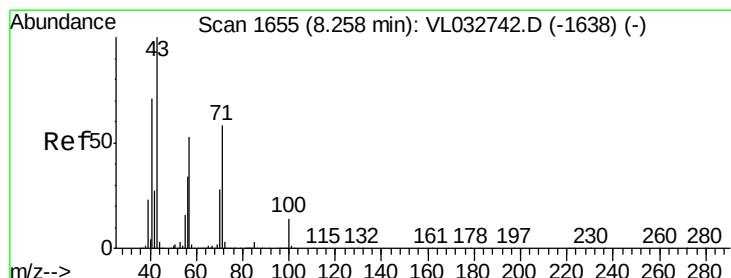
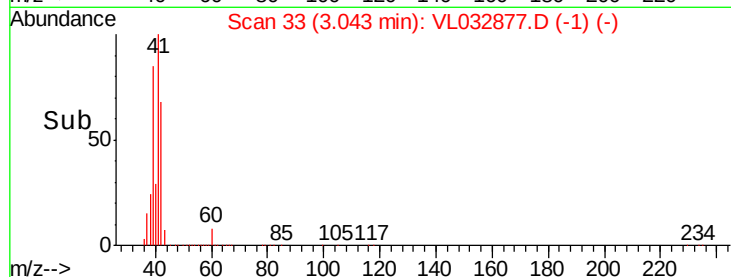
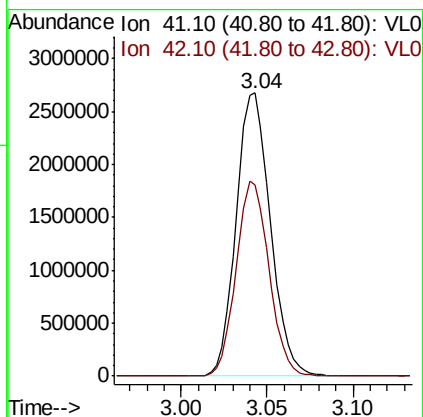
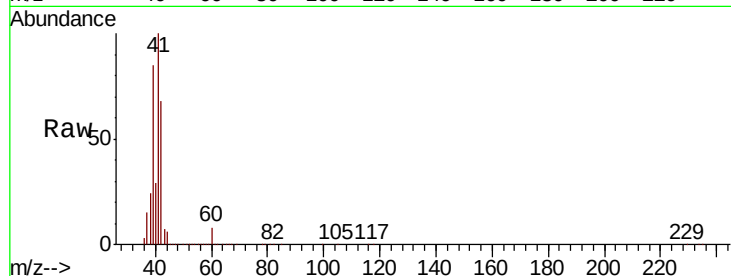
42 66.4 55.0 82.6

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#10

Heptane

Concen: 38.868 ppbv

RT: 8.27 min Scan# 1658

Delta R.T. 0.01 min

Lab File: VL032877.D

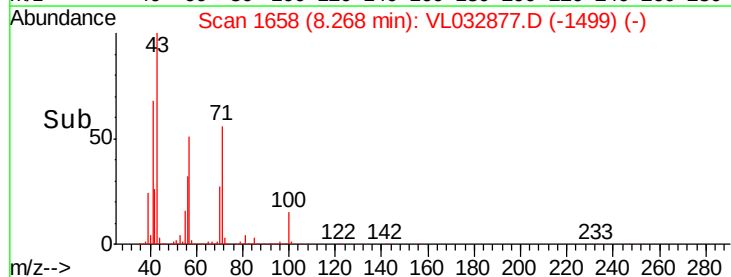
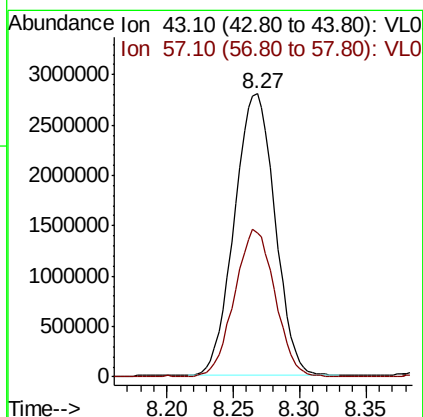
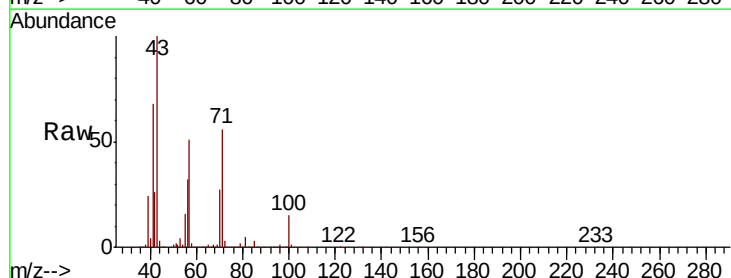
Acq: 4 Dec 2018 15:26

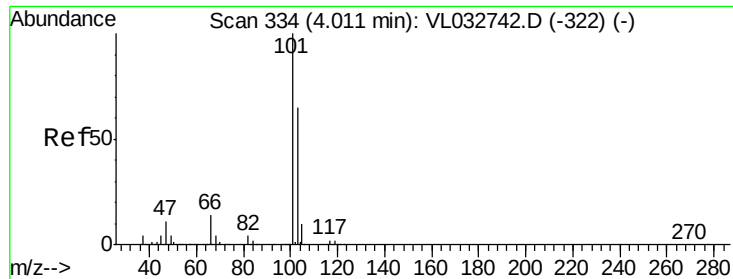
Tgt Ion: 43 Resp: 5950719

Ion Ratio Lower Upper

43 100

57 52.4 41.8 62.8





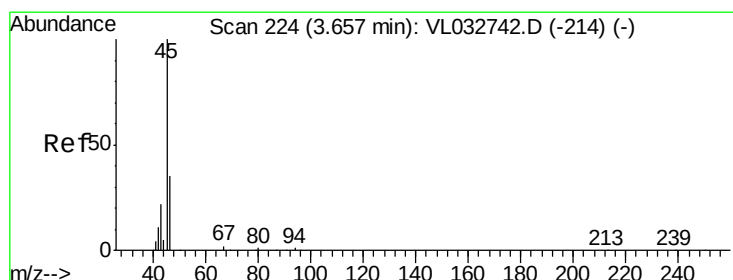
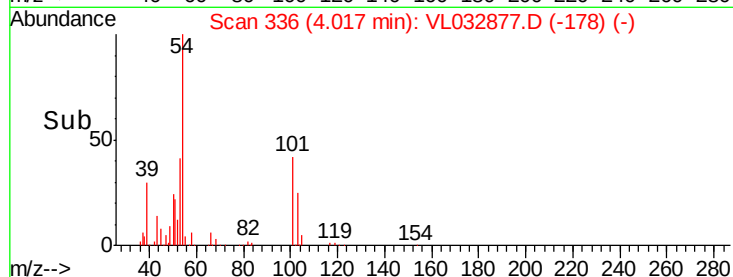
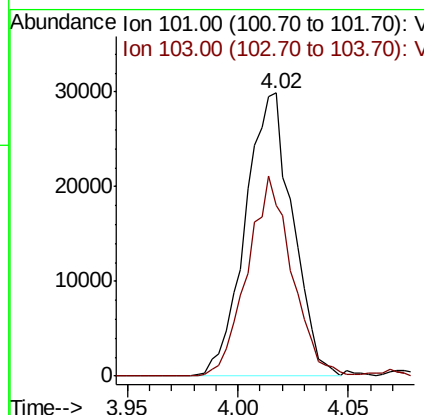
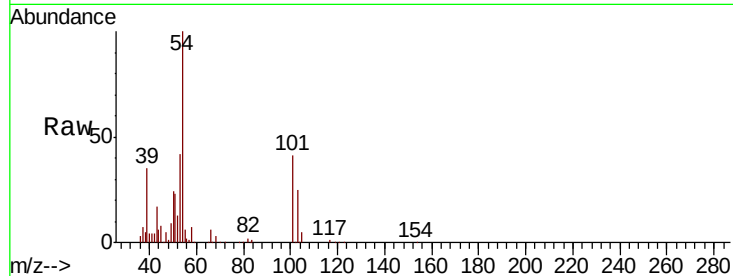
#11
Trichlorofluoromethane
Concen: 0.260 ppbv
RT: 4.02 min Scan# 336
Delta R.T. 0.01 min
Lab File: VL032877.D
Acq: 4 Dec 2018 15:26

Instrument :
MSVOA_L
ClientSampleId :
MMSV-06

Tot Ion:101 Resp: 44499
Ion Ratio Lower Upper
101 100
103 60.3 51.6 77.4

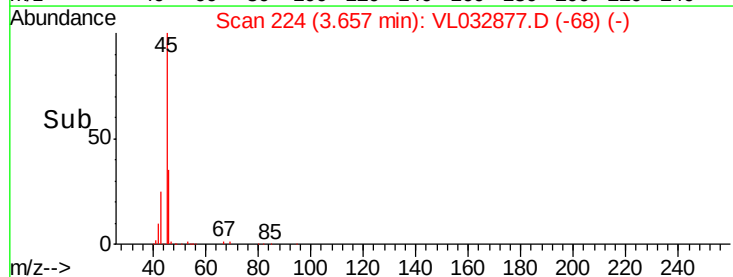
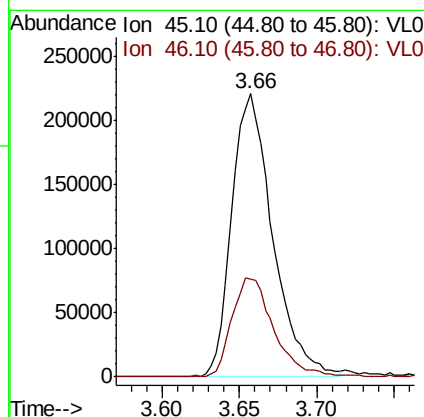
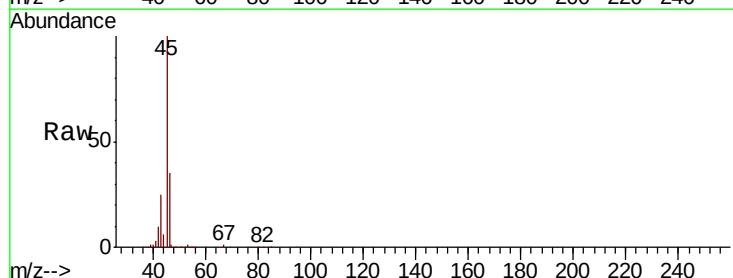
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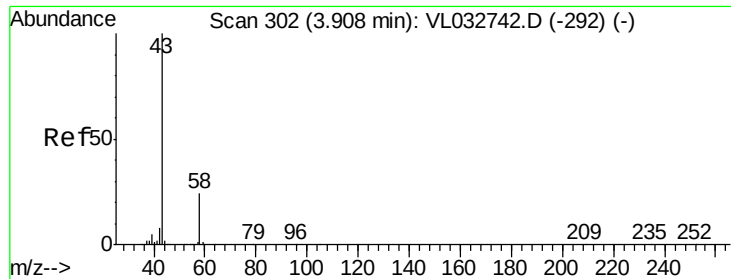
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#13
Ethanol
Concen: 31.024 ppbv
RT: 3.66 min Scan# 224
Delta R.T. 0.00 min
Lab File: VL032877.D
Acq: 4 Dec 2018 15:26

Tgt Ion: 45 Resp: 407504
Ion Ratio Lower Upper
45 100
46 36.1 14.5 57.9





#15

Acetone

Concen: 54.013 ppbv m

RT: 3.90 min Scan# 301

Delta R.T. -0.00 min

Lab File: VL032877.D

Acq: 4 Dec 2018 15:26

Instrument :

MSVOA_L

ClientSampleId :

MMSV-06

Tot Ion: 43 Resp: 6234726

Ion Ratio Lower Upper

43 100

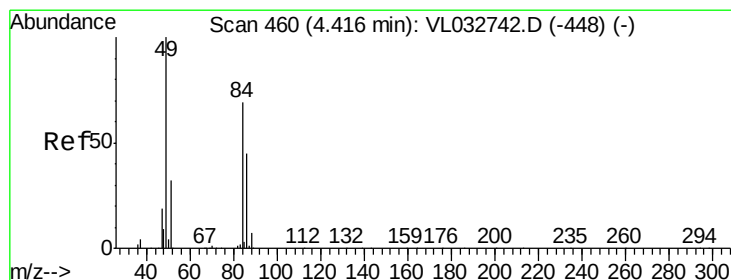
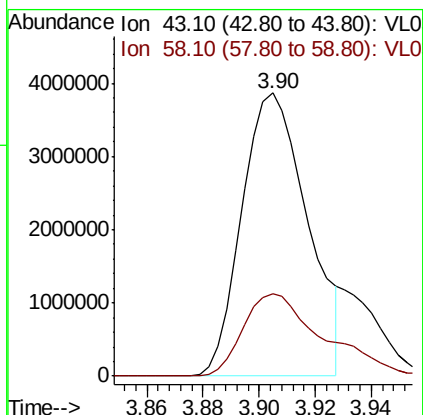
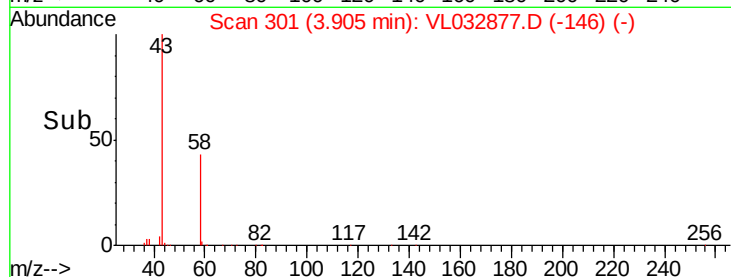
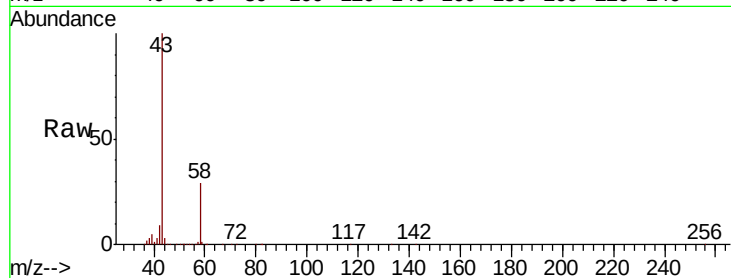
58 35.6 21.1 31.7#

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#20

Methylene Chloride

Concen: 2.082 ppbv

RT: 4.43 min Scan# 463

Delta R.T. 0.01 min

Lab File: VL032877.D

Acq: 4 Dec 2018 15:26

Tgt Ion: 84 Resp: 124402

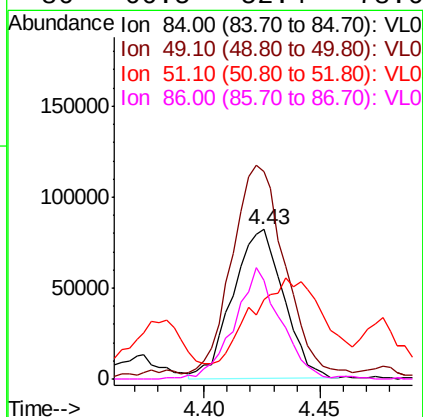
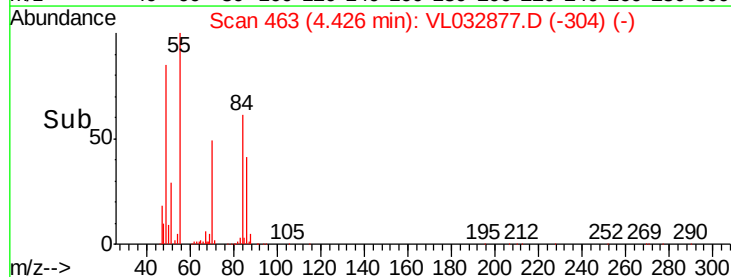
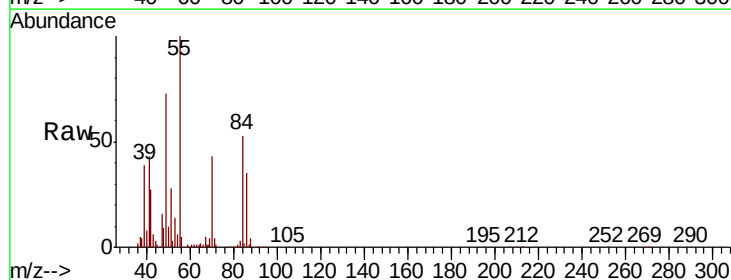
Ion Ratio Lower Upper

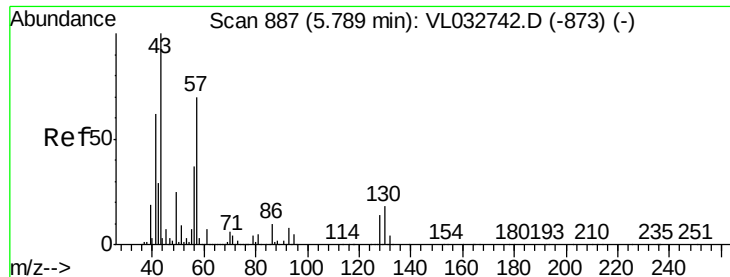
84 100

49 138.4 115.8 173.6

51 35.7 36.9 55.3#

86 66.5 52.4 78.6





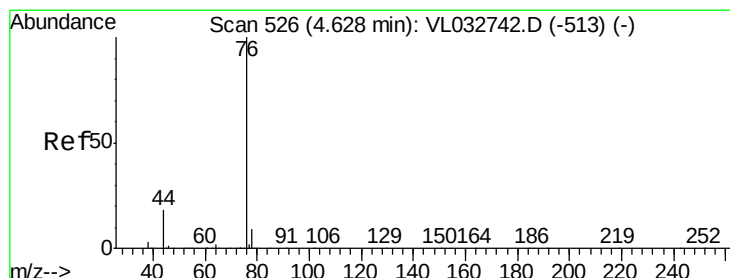
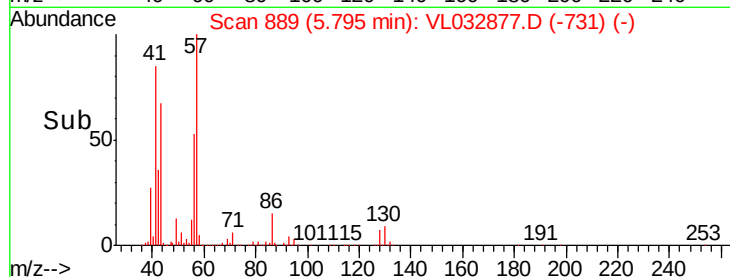
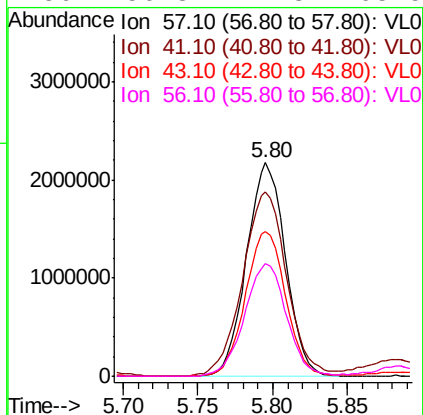
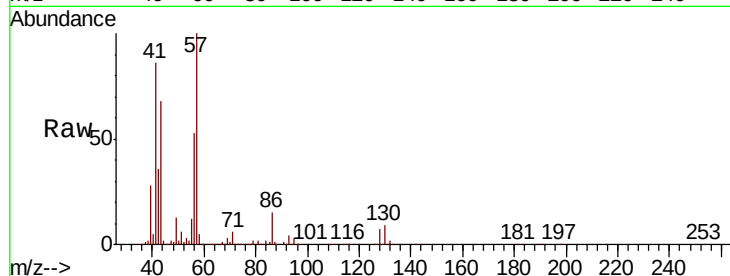
#26
Hexane
Concen: 32.873 ppbv
RT: 5.80 min Scan# 889
Delta R.T. 0.01 min
Lab File: VL032877.D
Acq: 4 Dec 2018 15:26

Instrument :
MSVOA_L
ClientSampleId :
MMSV-06

Tot Ion	Ratio	Lower	Upper
57	100		
41	97.2	70.3	105.5
43	70.0	174.0	261.0#
56	56.8	42.3	63.5

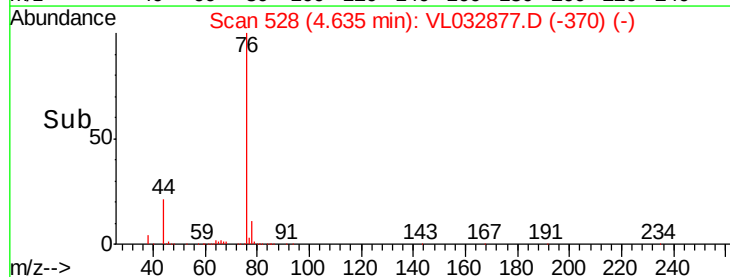
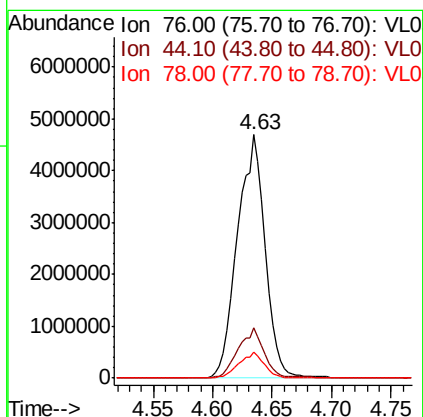
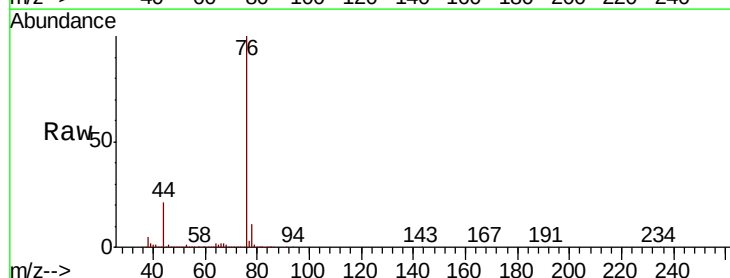
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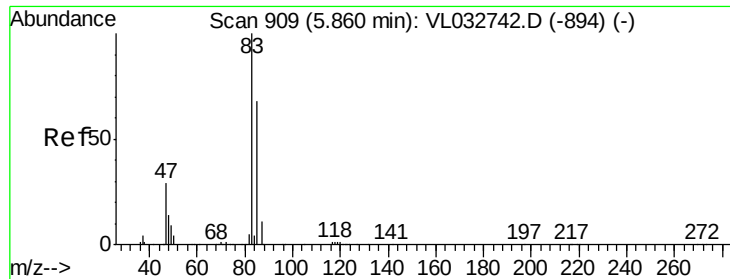
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#27
Carbon Disulfide
Concen: 49.782 ppbv
RT: 4.63 min Scan# 528
Delta R.T. 0.01 min
Lab File: VL032877.D
Acq: 4 Dec 2018 15:26

Tgt Ion	Ratio	Lower	Upper
76	100		
44	19.4	14.4	21.6
78	9.9	7.7	11.5





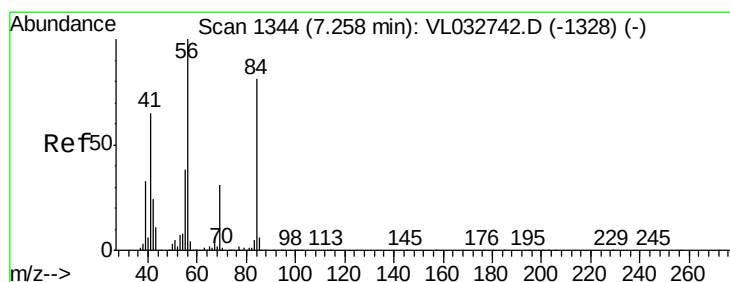
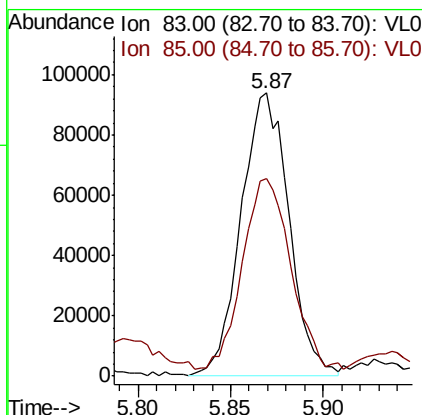
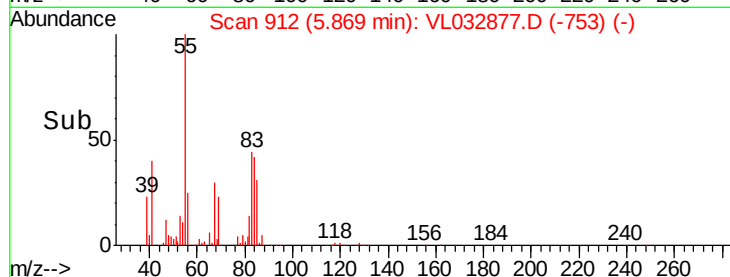
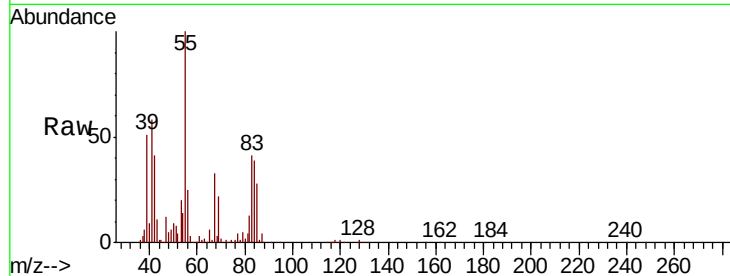
#29
Chloroform
Concen: 0.781 ppbv
RT: 5.87 min Scan# 912
Delta R.T. 0.01 min
Lab File: VL032877.D
Acq: 4 Dec 2018 15:26

Instrument :
MSVOA_L
ClientSampleId :
MMSV-06

Tot Ion: 83 Resp: 166734
Ion Ratio Lower Upper
83 100
85 65.0 54.2 81.4

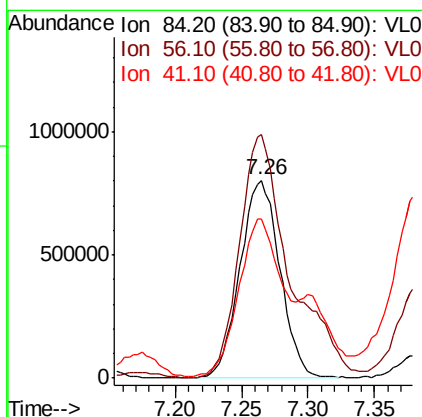
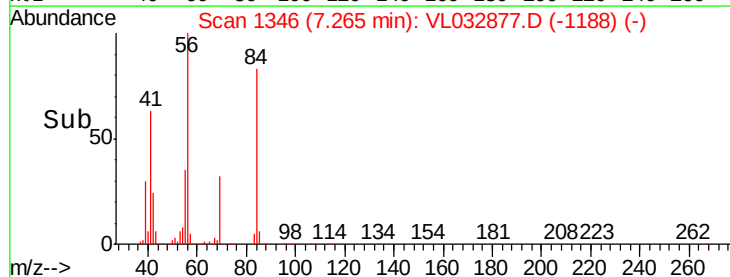
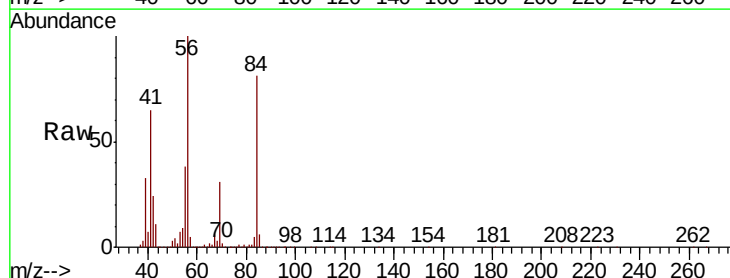
Manual Integrations
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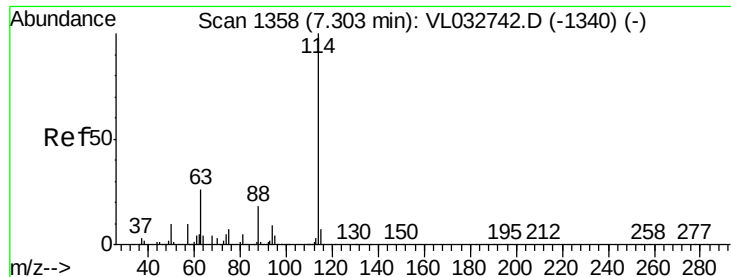
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#30
Cyclohexane
Concen: 16.006 ppbv
RT: 7.26 min Scan# 1346
Delta R.T. 0.01 min
Lab File: VL032877.D
Acq: 4 Dec 2018 15:26

Tgt Ion: 84 Resp: 1676531
Ion Ratio Lower Upper
84 100
56 155.7 105.0 157.4
41 120.1 65.3 97.9#





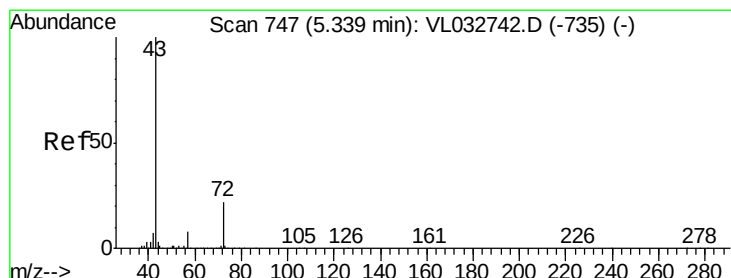
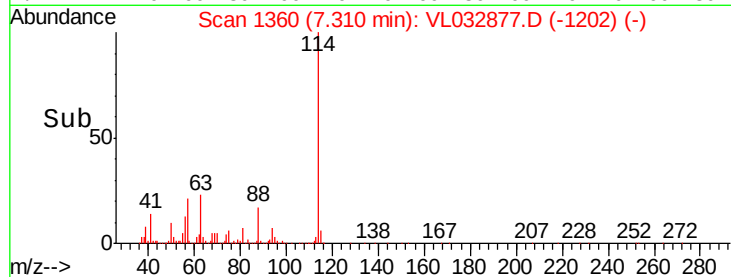
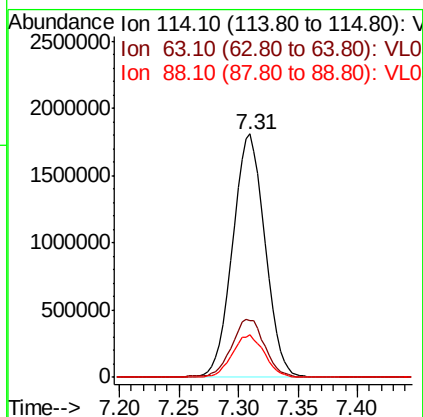
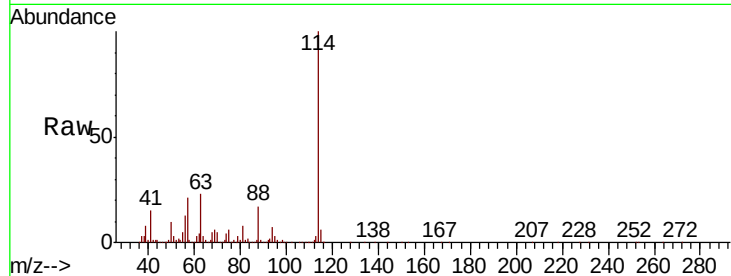
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.31 min Scan# 1360
 Delta R.T. 0.01 min
 Lab File: VL032877.D
 Acq: 4 Dec 2018 15:26

Instrument :
 MSVOA_L
 ClientSampleId :
 MMSV-06

Tot Ion	Ratio	Lower	Upper
114	100		
63	25.2	20.9	31.3
88	17.4	14.4	21.6

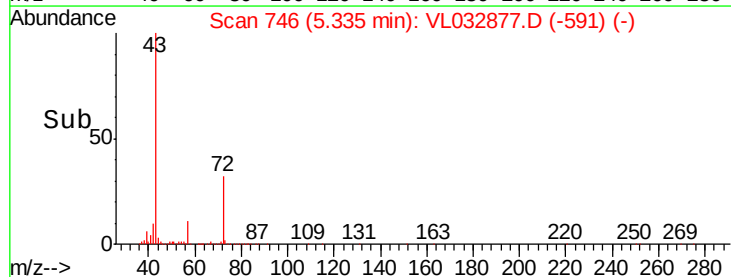
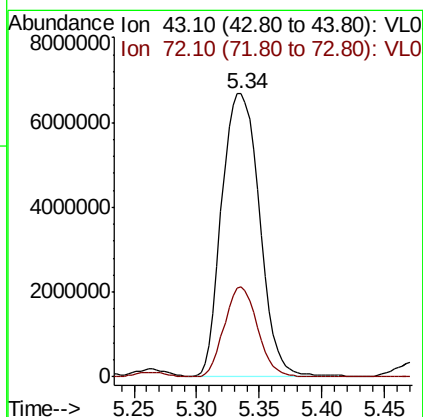
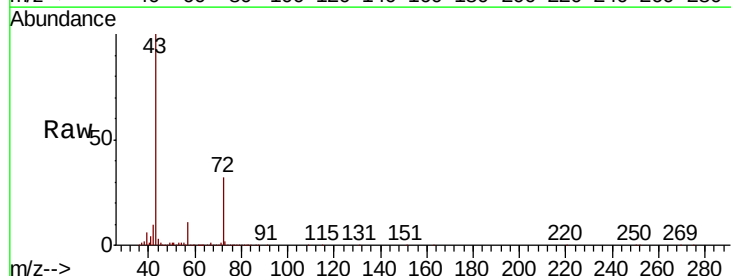
Manual Integrations
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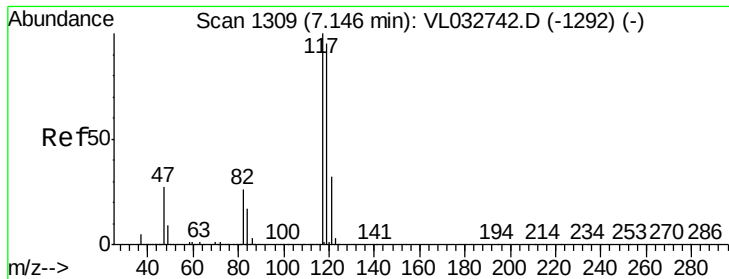
MMDadoda
 12/10/2018 12:59:48 PM



#34
 2-Butanone
 Concen: 78.657 ppbv
 RT: 5.34 min Scan# 746
 Delta R.T. -0.00 min
 Lab File: VL032877.D
 Acq: 4 Dec 2018 15:26

Tgt Ion	Ratio	Lower	Upper
43	100		
72	27.9	18.4	27.6#





#35

Carbon Tetrachloride

Concen: 0.054 ppbv m

RT: 7.16 min Scan# 1312

Delta R.T. 0.01 min

Lab File: VL032877.D

Acq: 4 Dec 2018 15:26

Instrument :

MSVOA_L

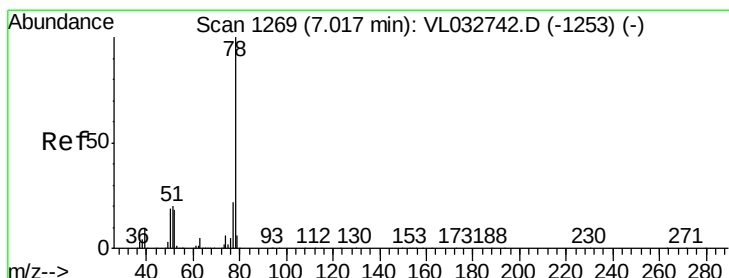
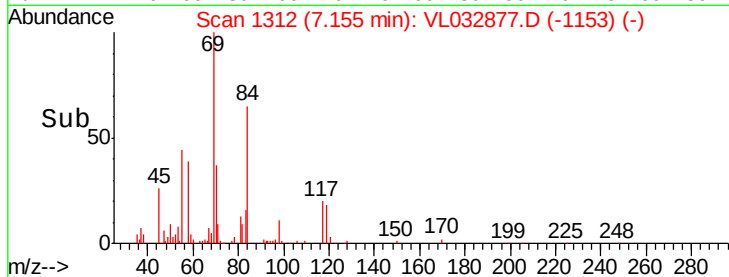
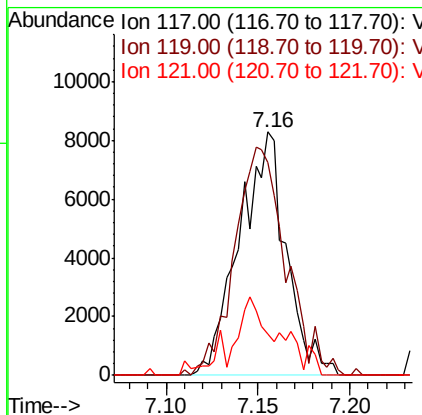
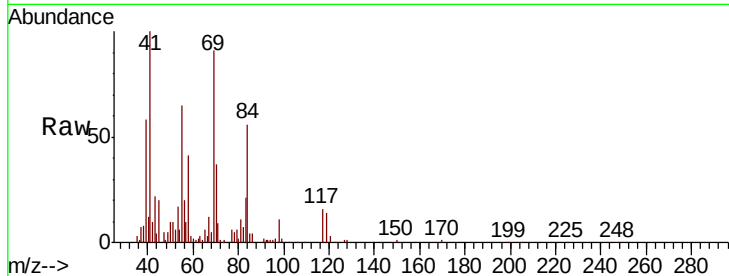
ClientSampled :

MMSV-06

Tot Ion	Ratio	Lower	Upper
117	100		
119	87.5	76.1	114.1
121	17.2	25.4	38.0

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#36

Benzene

Concen: 20.803 ppbv

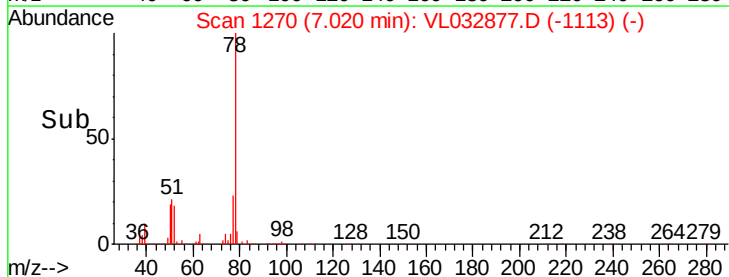
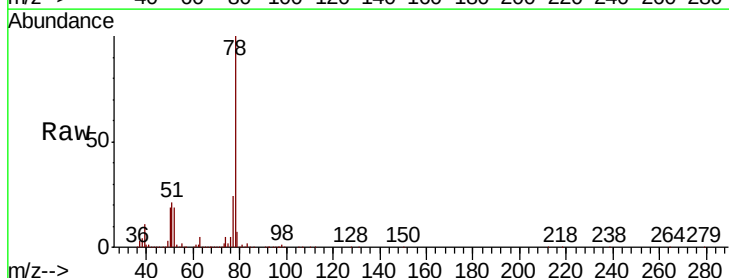
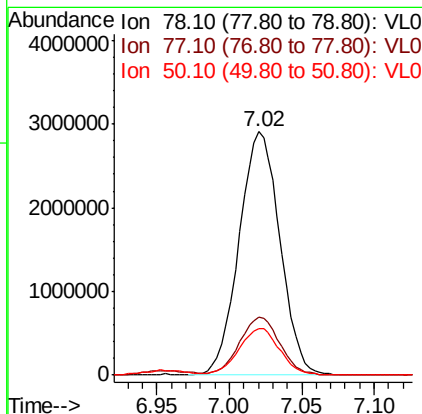
RT: 7.02 min Scan# 1270

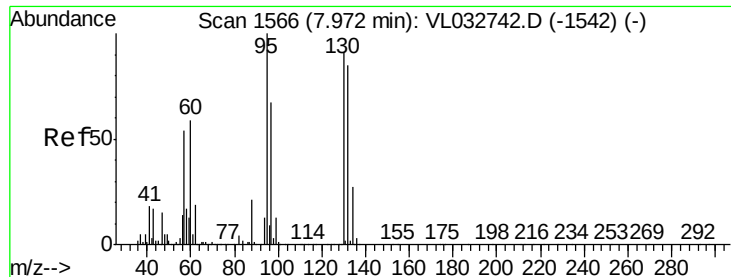
Delta R.T. 0.00 min

Lab File: VL032877.D

Acq: 4 Dec 2018 15:26

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.6	17.8	26.8
50	19.0	15.4	23.0





#38

Trichloroethene

Concen: 0.089 ppbv m

RT: 7.98 min Scan# 1569

Delta R.T. 0.01 min

Lab File: VL032877.D

Acq: 4 Dec 2018 15:26

Instrument :

MSVOA_L

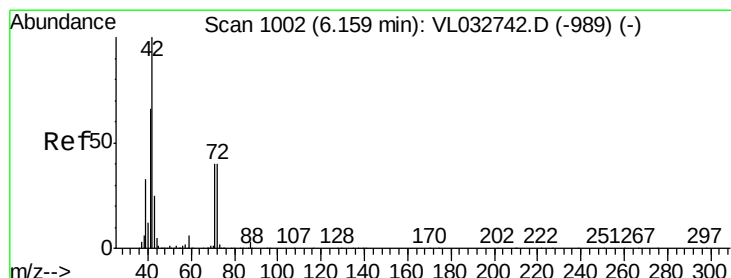
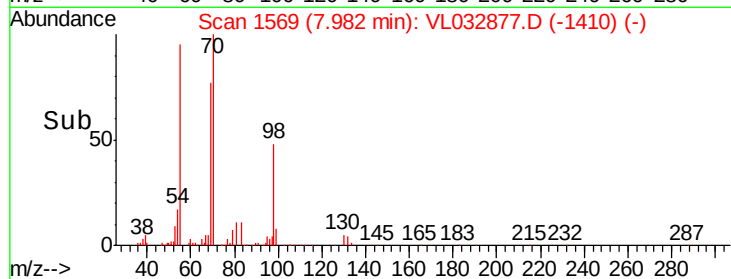
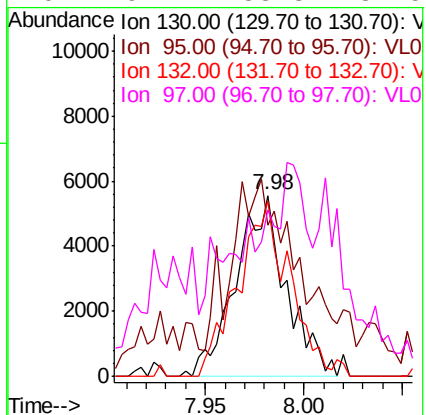
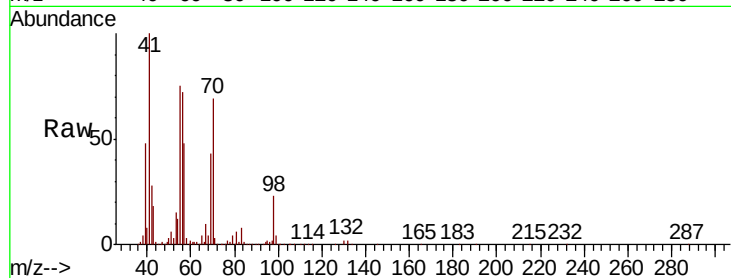
ClientSampleId :

MMSV-06

Tot Ion:	130	Resp:	9776
Ion Ratio	Lower	Upper	
130	100		
95	83.4	87.7	131.5#
132	96.8	74.6	111.8
97	91.7	58.3	87.5#

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#41

Tetrahydrofuran

Concen: 20.774 ppbv

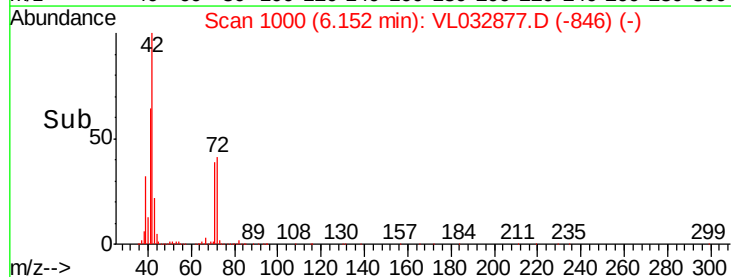
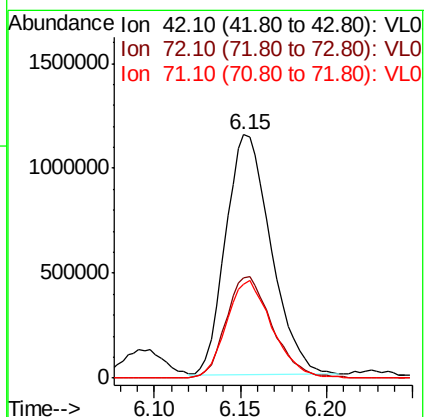
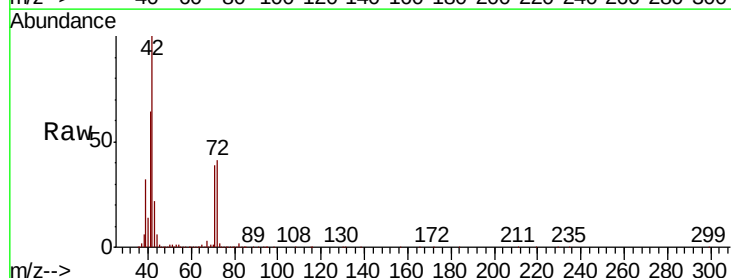
RT: 6.15 min Scan# 1000

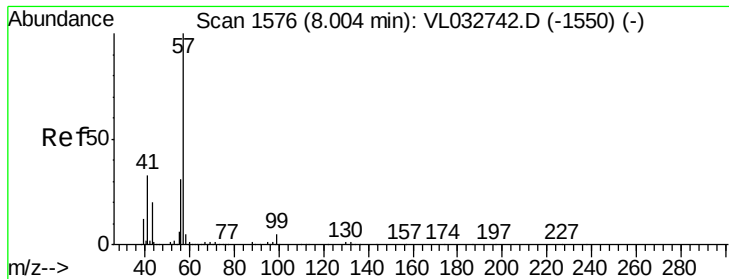
Delta R.T. -0.01 min

Lab File: VL032877.D

Acq: 4 Dec 2018 15:26

Tgt Ion:	42	Resp:	2107672
Ion Ratio	Lower	Upper	
42	100		
72	43.0	32.4	48.6
71	41.1	31.6	47.4





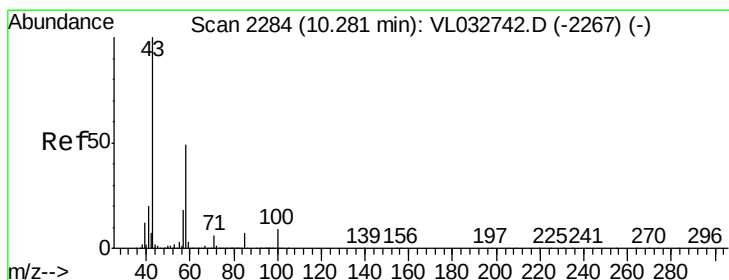
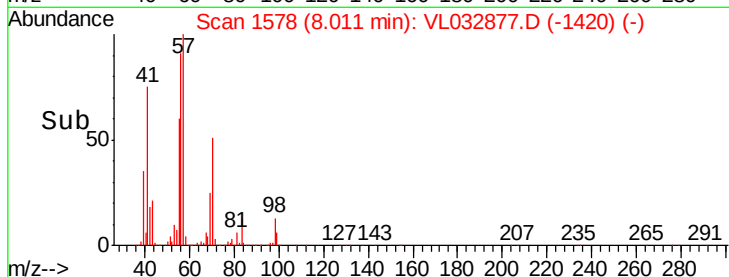
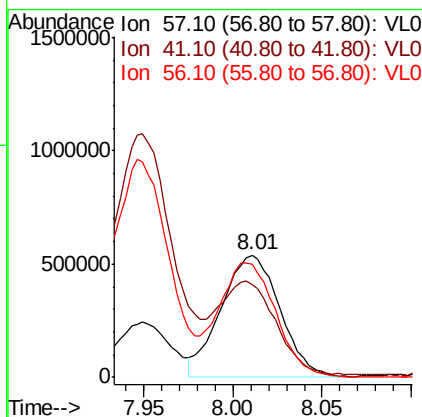
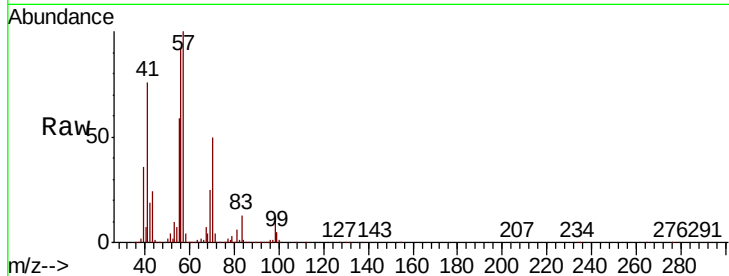
#44
 2,2,4-Trimethylpentane
 Concen: 2.695 ppbv
 RT: 8.01 min Scan# 1578
 Delta R.T. 0.01 min
 Lab File: VL032877.D
 Acq: 4 Dec 2018 15:26

Instrument :
 MSVOA_L
 ClientSampled :
 MMSV-06

Tot Ion	Ratio	Lower	Upper
57	100		
41	76.0	26.6	39.8#
56	87.1	24.8	37.2#

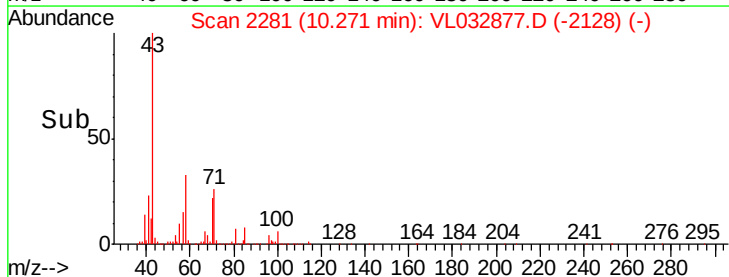
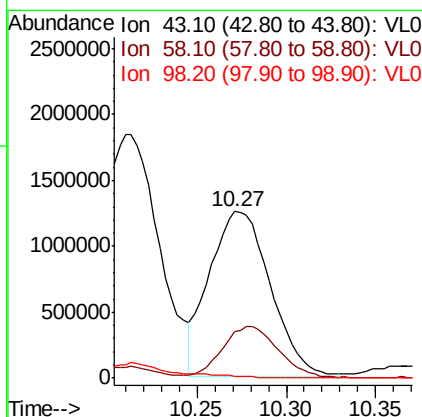
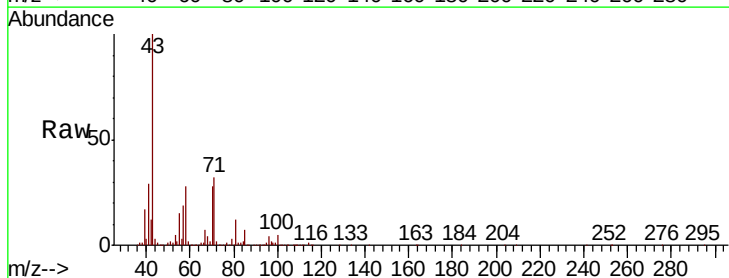
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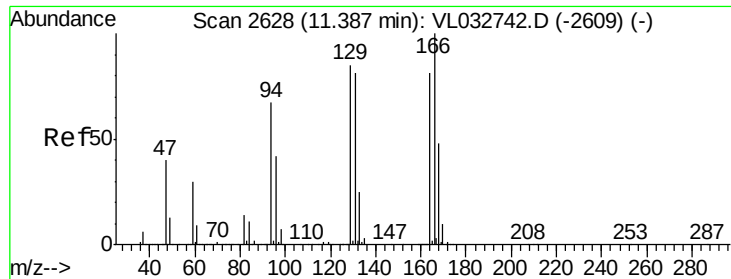
MMDadoda
 12/10/2018 12:59:48 PM



#51
 2-Hexanone
 Concen: 16.830 ppbv
 RT: 10.27 min Scan# 2281
 Delta R.T. -0.01 min
 Lab File: VL032877.D
 Acq: 4 Dec 2018 15:26

Tgt Ion	Ratio	Lower	Upper
43	100		
58	28.8	38.9	58.3#
98	0.0	0.2	0.4#





#52

Tetrachloroethene

Concen: 0.138 ppbv m

RT: 11.38 min Scan# 2626

Delta R.T. -0.01 min

Lab File: VL032877.D

Acq: 4 Dec 2018 15:26

Instrument :

MSVOA_L

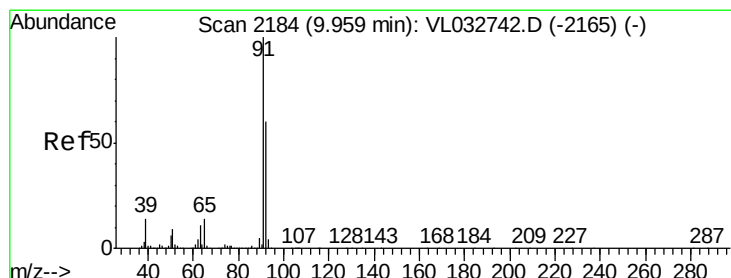
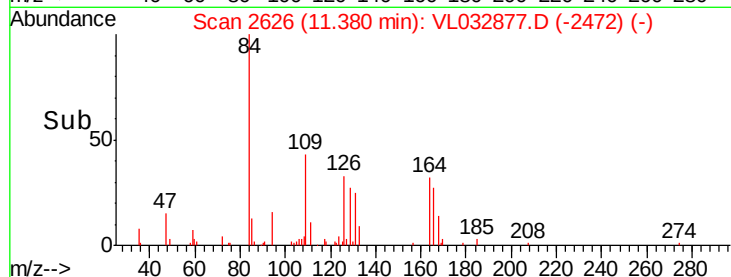
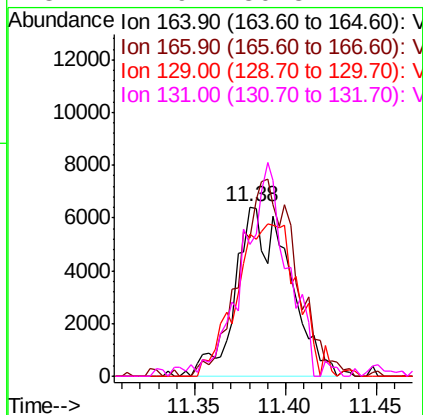
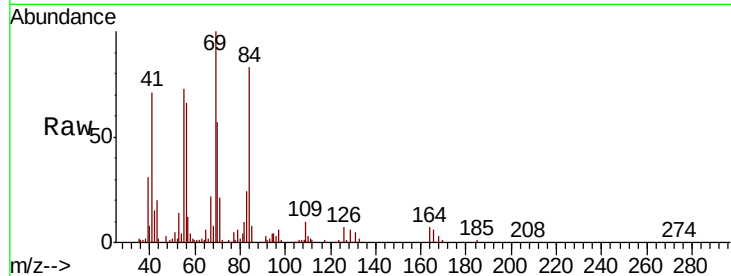
ClientSampleId :

MMSV-06

Tot Ion:	164	Resp:	13004
Ion	Ratio	Lower	Upper
164	100		
166	81.7	99.3	148.9#
129	84.3	83.9	125.9
131	77.9	80.8	121.2#

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#53

Toluene

Concen: 20.717 ppbv

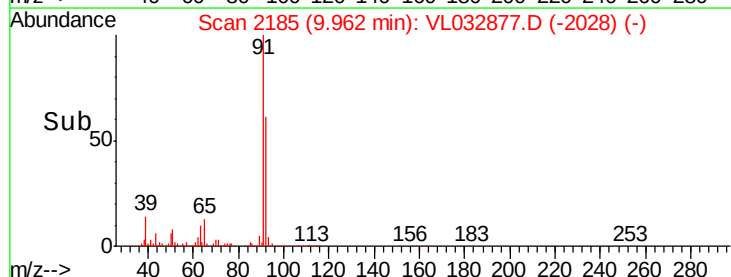
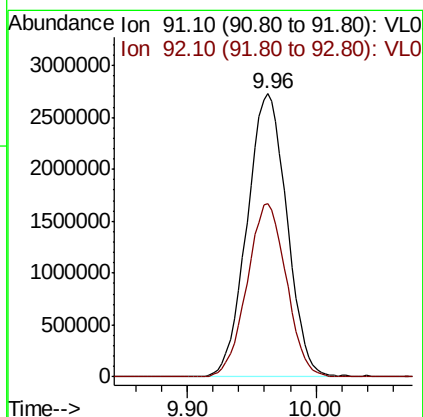
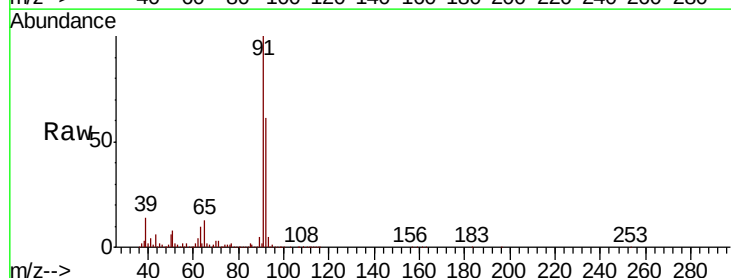
RT: 9.96 min Scan# 2185

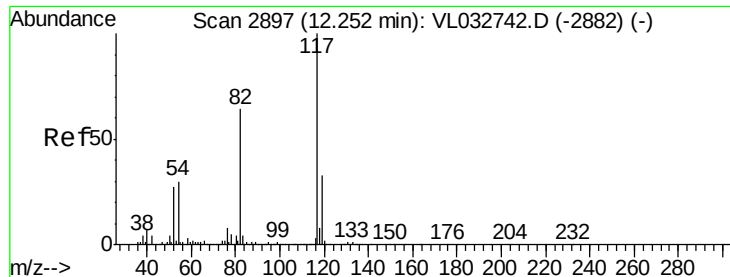
Delta R.T. 0.00 min

Lab File: VL032877.D

Acq: 4 Dec 2018 15:26

Tgt Ion:	91	Resp:	5869194
Ion	Ratio	Lower	Upper
91	100		
92	60.6	47.9	71.9





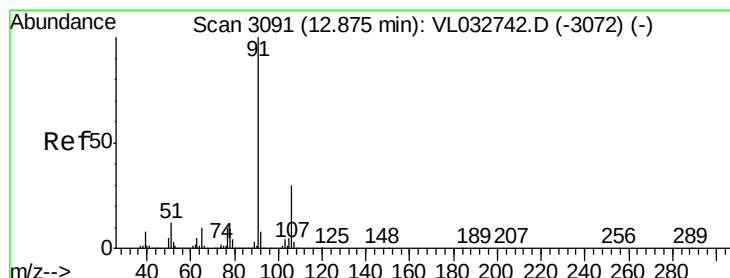
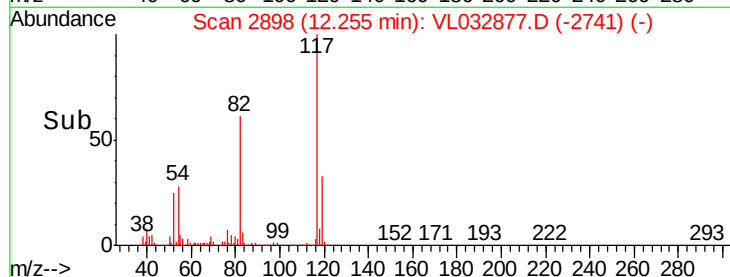
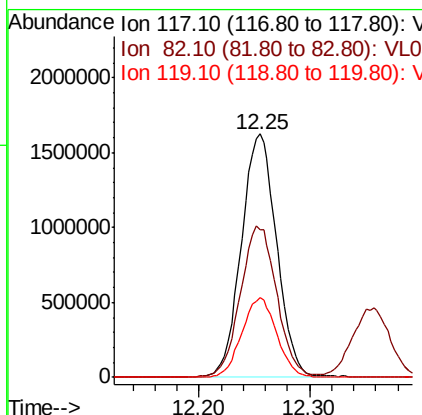
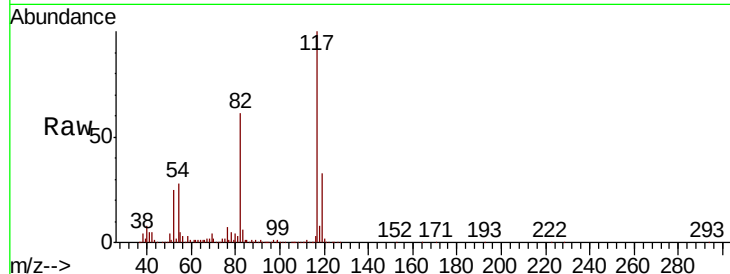
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.25 min Scan# 2898
Delta R.T. 0.00 min
Lab File: VL032877.D
Acq: 4 Dec 2018 15:26

Instrument :
MSVOA_L
ClientSampled :
MMSV-06

Tot Ion	Ratio	Lower	Upper
117	100		
82	64.2	51.0	76.6
119	32.5	28.0	42.0

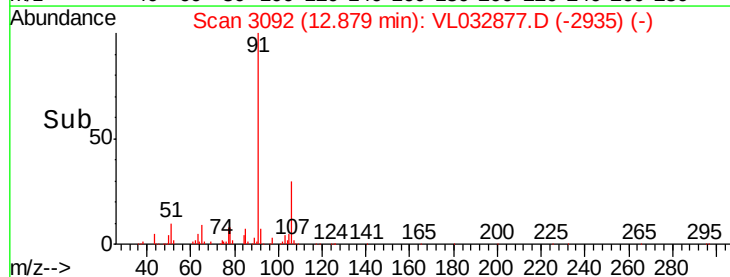
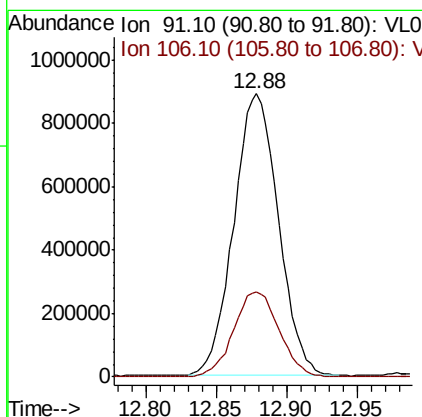
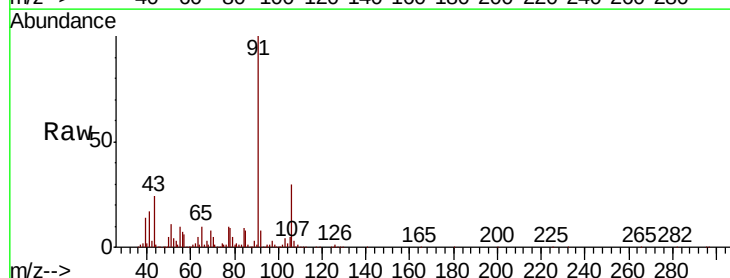
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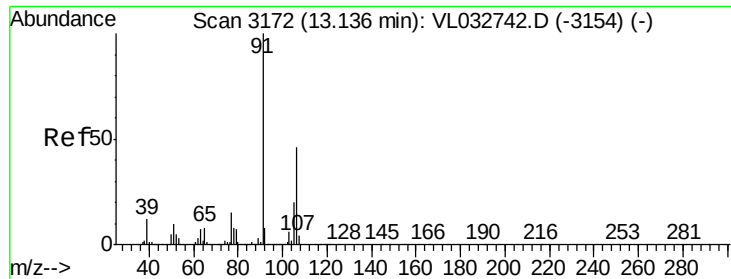
MMDadoda
12/10/2018 12:59:48 PM



#58
Ethyl Benzene
Concen: 4.543 ppbv
RT: 12.88 min Scan# 3092
Delta R.T. 0.00 min
Lab File: VL032877.D
Acq: 4 Dec 2018 15:26

Tgt Ion	Ratio	Lower	Upper
91	100		
106	30.1	23.6	35.4





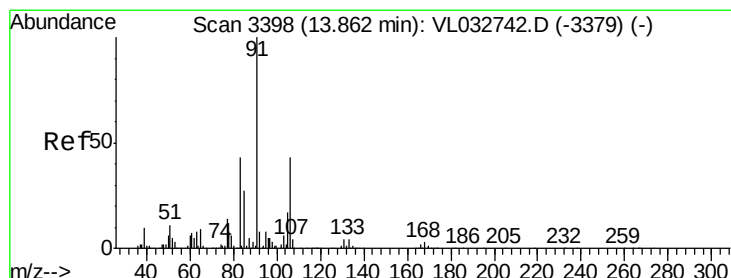
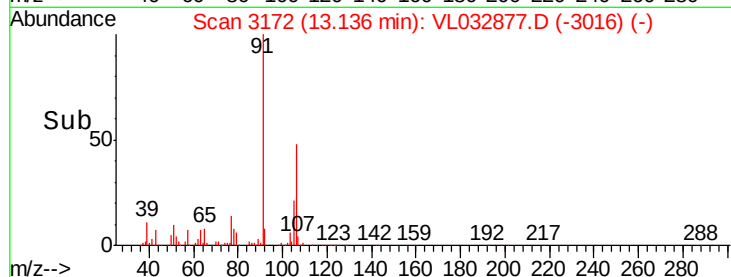
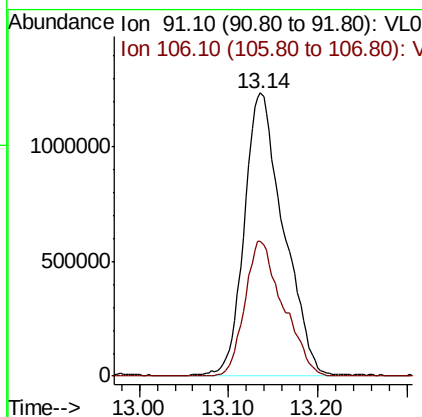
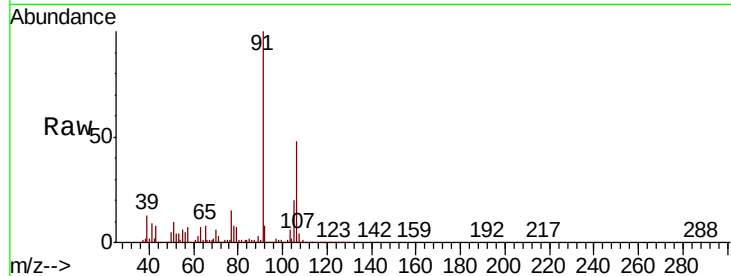
#59
m/p-Xylene
Concen: 9.730 ppbv
RT: 13.14 min Scan# 3172
Delta R.T. 0.00 min
Lab File: VL032877.D
Acq: 4 Dec 2018 15:26

Instrument :
MSVOA_L
ClientSampleId :
MMSV-06

Tot Ion: 91 Resp: 3752069
Ion Ratio Lower Upper
91 100
106 46.8 36.1 54.1

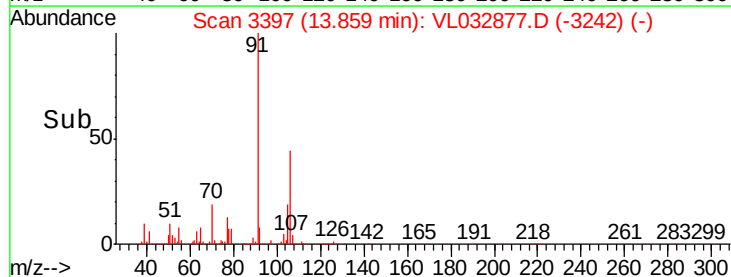
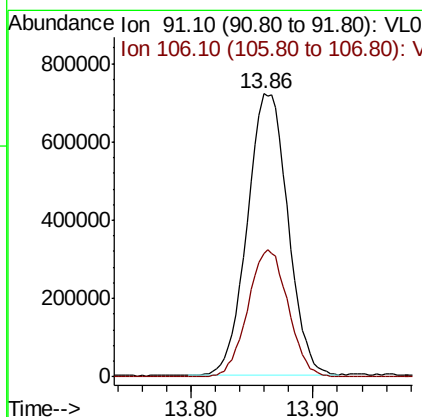
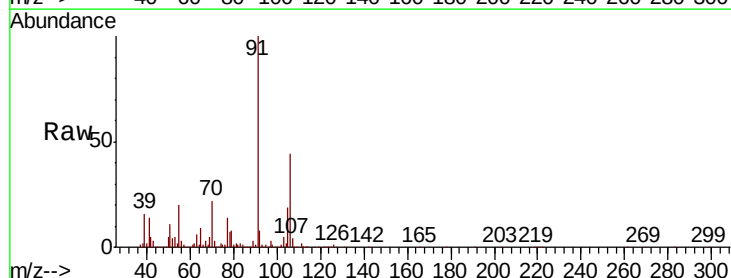
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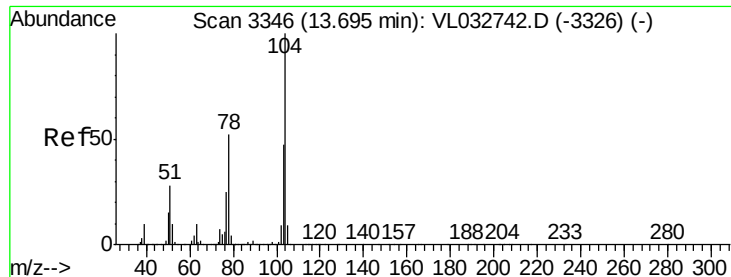
MMDadoda
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#60
o-Xylene
Concen: 4.256 ppbv
RT: 13.86 min Scan# 3397
Delta R.T. -0.00 min
Lab File: VL032877.D
Acq: 4 Dec 2018 15:26

Tgt Ion: 91 Resp: 1650139
Ion Ratio Lower Upper
91 100
106 45.2 21.9 65.7





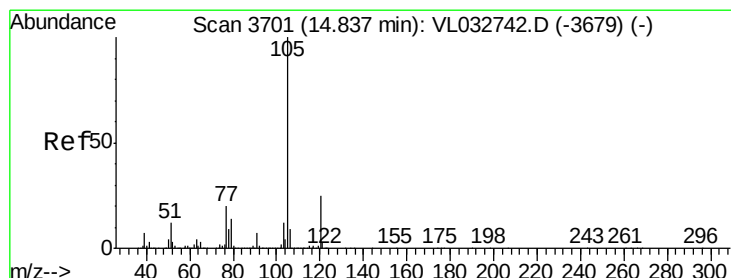
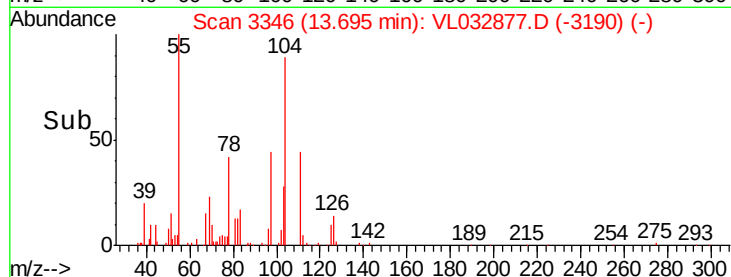
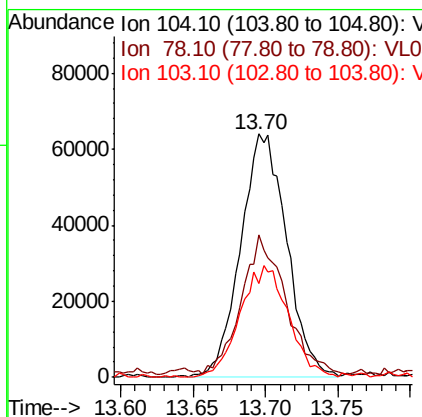
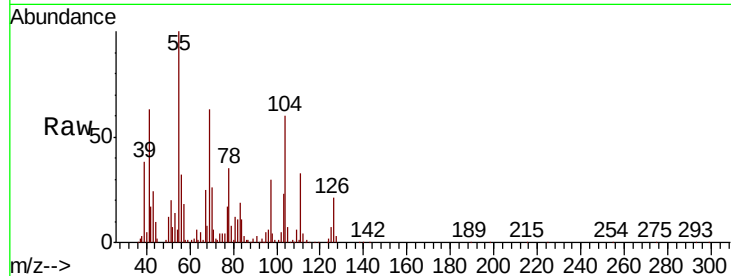
#61
Stvrene
Concen: 0.557 ppbv
RT: 13.70 min Scan# 3346
Delta R.T. 0.00 min
Lab File: VL032877.D
Acq: 4 Dec 2018 15:26

Instrument :
MSVOA_L
ClientSampleId :
MMSV-06

Tot Ion	Ratio	Lower	Upper
104	100		
78	57.3	42.2	63.4
103	48.5	38.2	57.2

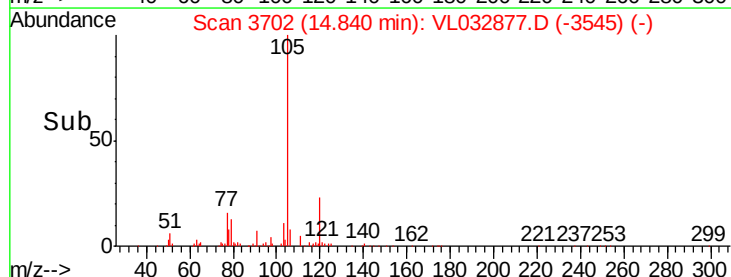
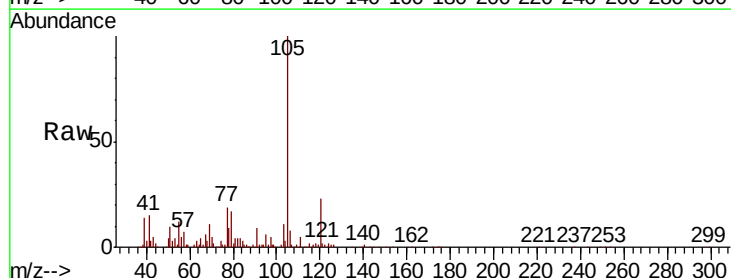
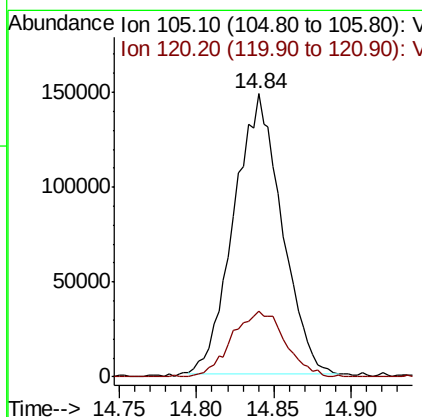
Manual Integrations
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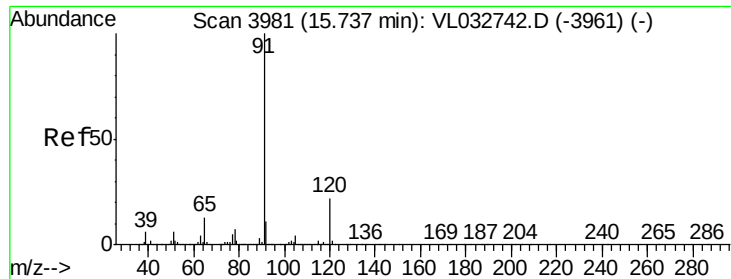
MMDadoda
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#62
Isopropylbenzene
Concen: 0.607 ppbv
RT: 14.84 min Scan# 3702
Delta R.T. 0.00 min
Lab File: VL032877.D
Acq: 4 Dec 2018 15:26

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.5	20.1	30.1





#64

n-propylbenzene

Concen: 0.566 ppbv

RT: 15.74 min Scan# 3982

Delta R.T. 0.00 min

Lab File: VL032877.D

Acq: 4 Dec 2018 15:26

Instrument :

MSVOA_L

ClientSampleId :

MMSV-06

Tot Ion:120 Resp: 78079

Ion Ratio Lower Upper

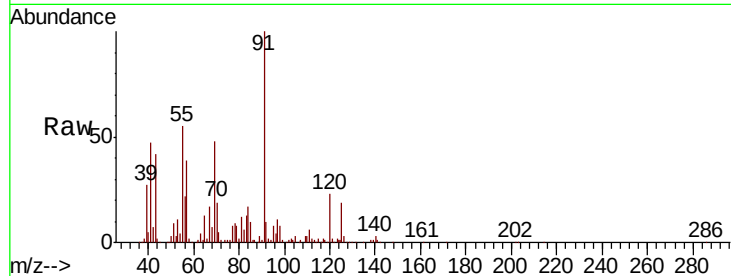
120 100

91 521.8 381.7 572.5

Manual Integrations
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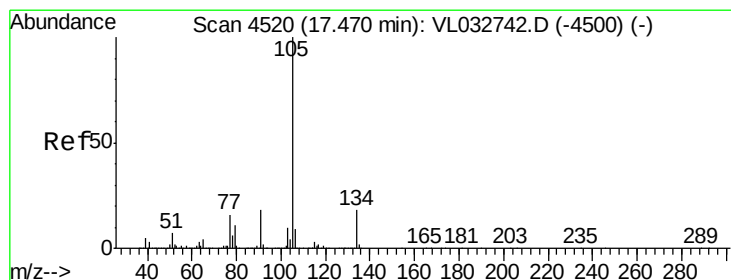
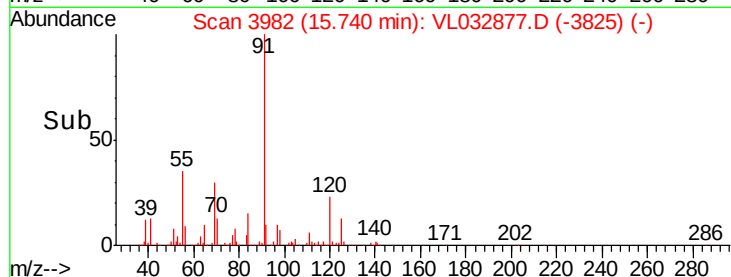
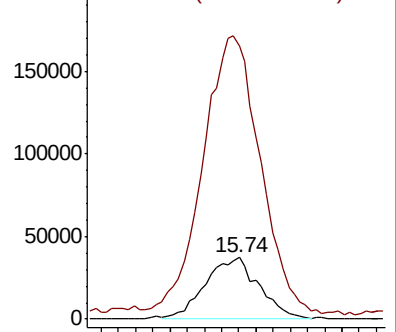
MMDadoda

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Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#67

sec-Butylbenzene

Concen: 0.197 ppbv

RT: 17.47 min Scan# 4521

Delta R.T. 0.00 min

Lab File: VL032877.D

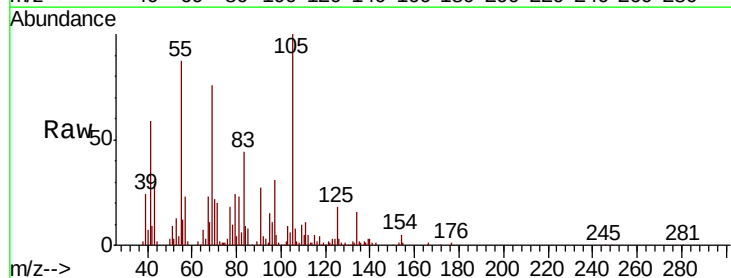
Acq: 4 Dec 2018 15:26

Tgt Ion:105 Resp: 133106

Ion Ratio Lower Upper

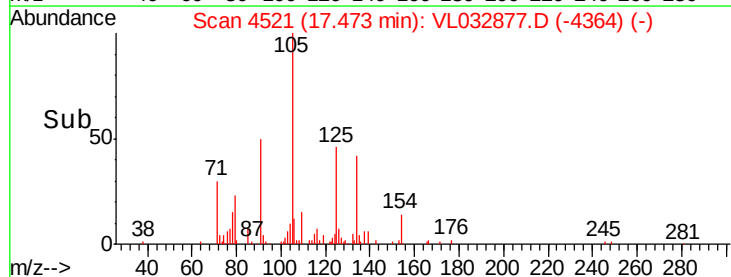
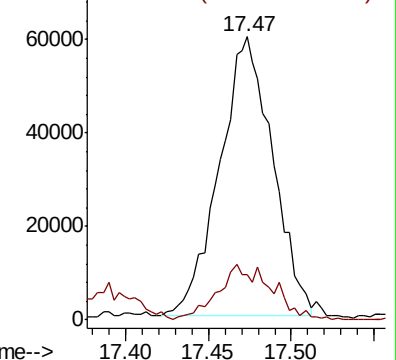
105 100

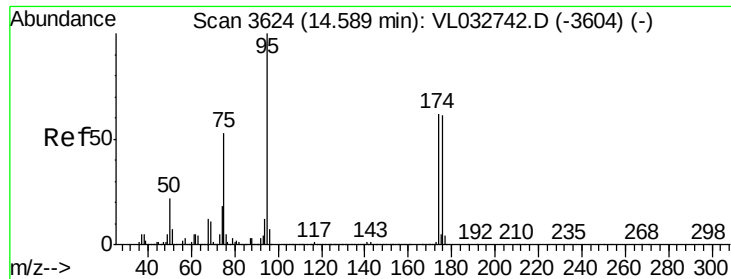
134 20.1 14.6 21.8



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V





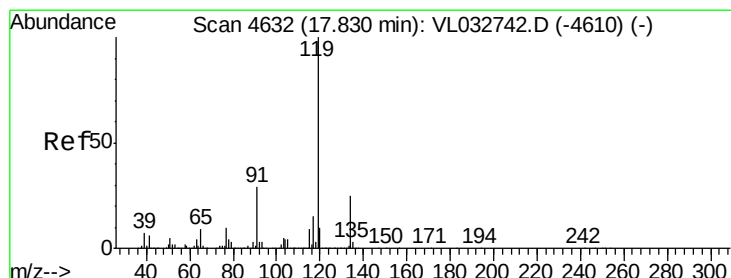
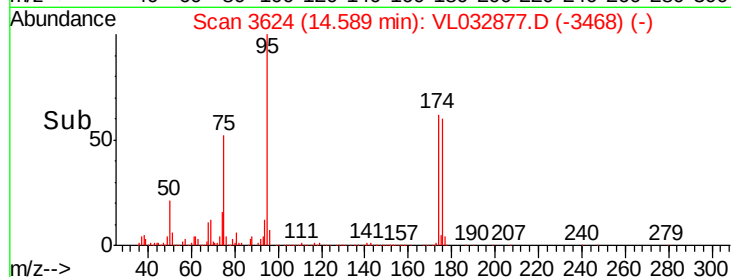
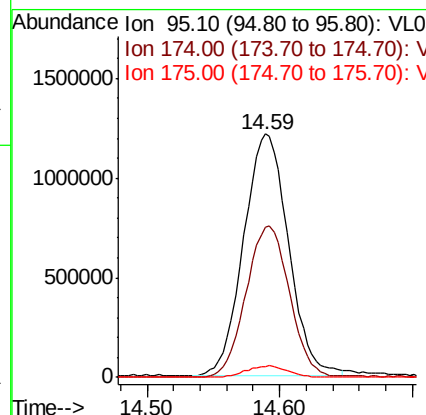
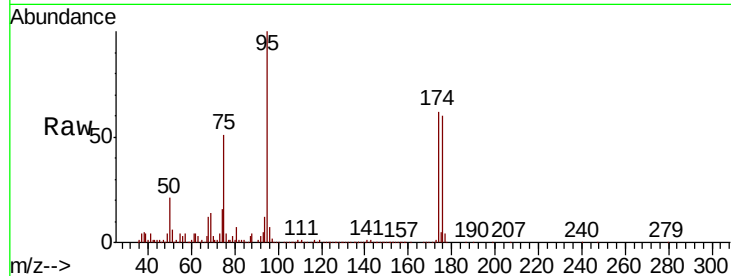
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.652 ppbv
 RT: 14.59 min Scan# 3624
 Delta R.T. 0.00 min
 Lab File: VL032877.D
 Acq: 4 Dec 2018 15:26

Instrument :
 MSVOA_L
 ClientSampleId :
 MMSV-06

Tot Ion: 95 Resp: 2867712
 Ion Ratio Lower Upper
 95 100
 174 61.0 50.7 76.1
 175 4.5 3.8 5.6

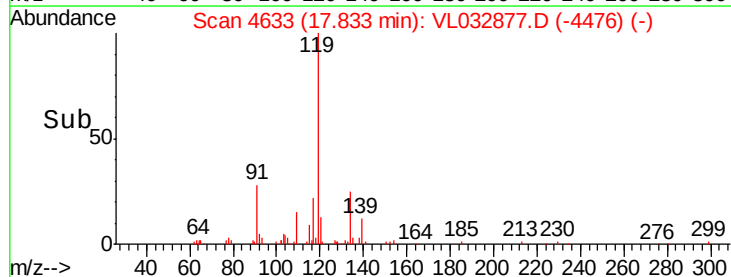
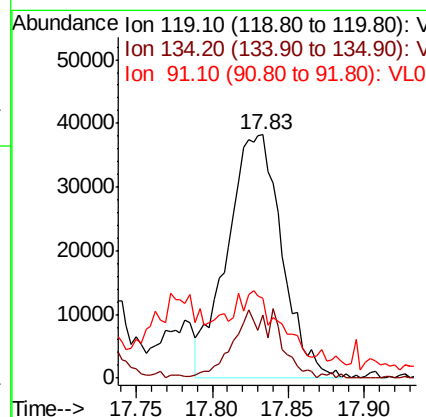
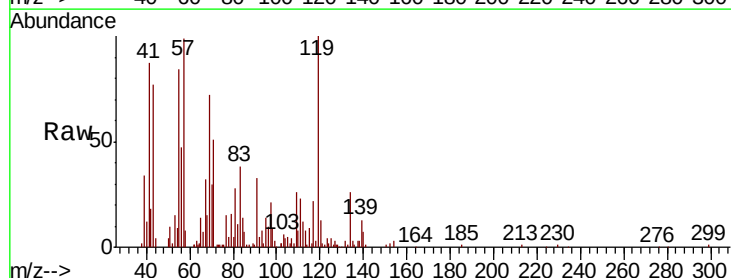
Manual Integrations
 APPROVED

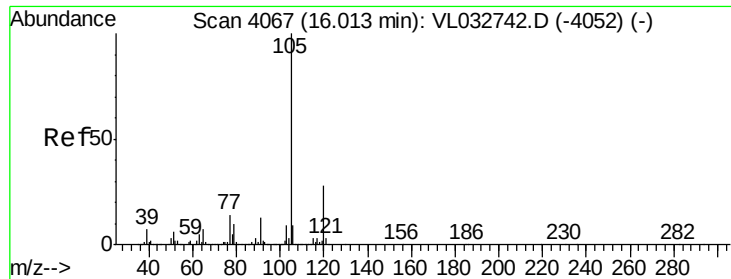
MMDadoda
 12/10/2018 12:59:48 PM



#69
 p-Isopropyltoluene
 Concen: 0.178 ppbv m
 RT: 17.83 min Scan# 4633
 Delta R.T. 0.00 min
 Lab File: VL032877.D
 Acq: 4 Dec 2018 15:26

Tgt Ion: 119 Resp: 95668
 Ion Ratio Lower Upper
 119 100
 134 24.5 20.2 30.4
 91 0.0 23.5 35.3#





#72

4-Ethyltoluene

Concen: 0.777 ppbv

RT: 16.01 min Scan# 4067

Delta R.T. 0.00 min

Lab File: VL032877.D

Acq: 4 Dec 2018 15:26

Instrument :

MSVOA_L

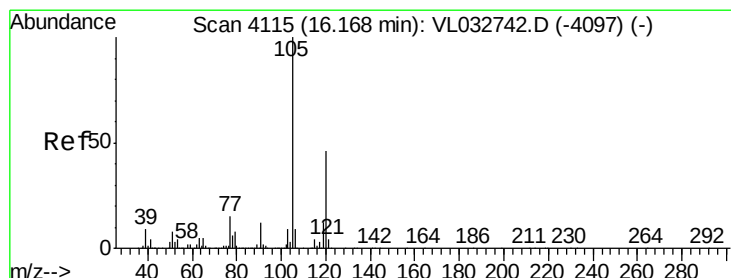
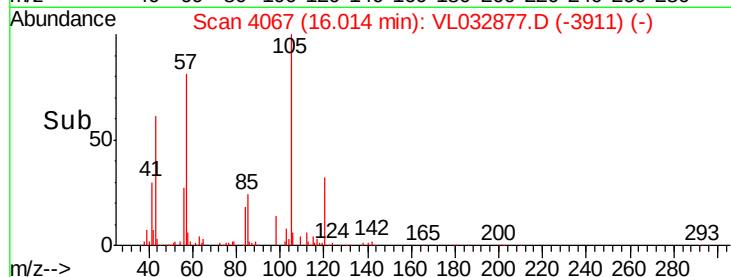
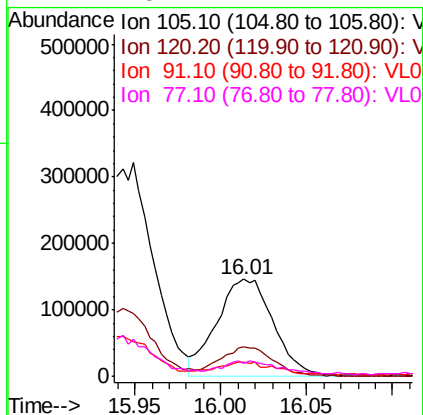
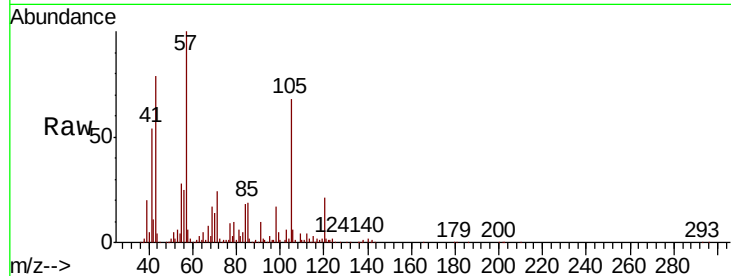
ClientSampled :

MMSV-06

Tot Ion:	105	Resp:	330169
Ion Ratio		Lower	Upper
105	100		
120	29.7	22.9	34.3
91	13.9	10.6	15.8
77	16.1	11.4	17.2

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#73

1,3,5-Trimethylbenzene

Concen: 0.769 ppbv

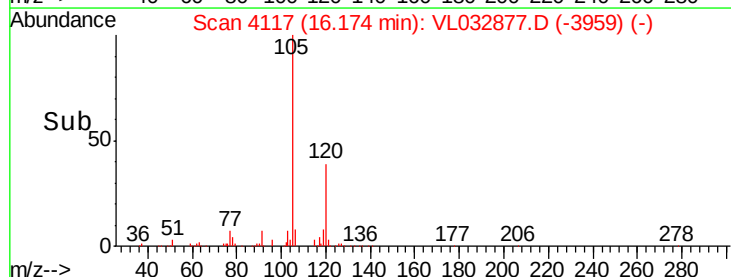
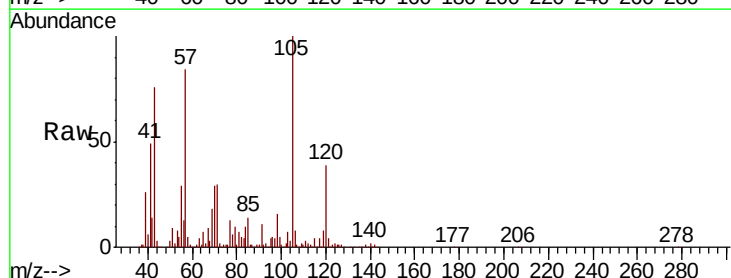
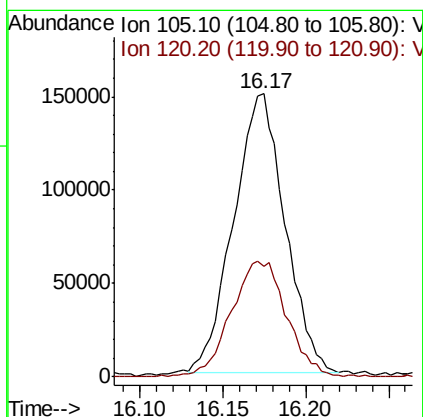
RT: 16.17 min Scan# 4117

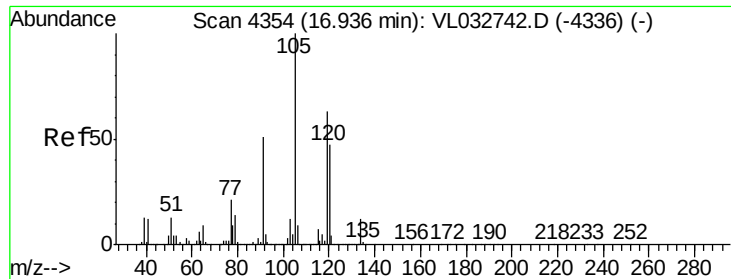
Delta R.T. 0.01 min

Lab File: VL032877.D

Acq: 4 Dec 2018 15:26

Tgt Ion:	105	Resp:	319760
Ion Ratio		Lower	Upper
105	100		
120	39.2	36.6	55.0





#74
 1,2,4-Trimethylbenzene
 Concen: 1.333 ppbv
 RT: 16.94 min Scan# 4355
 Delta R.T. 0.00 min
 Lab File: VL032877.D
 Acq: 4 Dec 2018 15:26

Instrument :
 MSVOA_L
 ClientSampleId :
 MMSV-06

Tot Ion:	105	Resp:	592956
Ion Ratio		Lower	Upper
105	100		
120	41.3	37.6	56.4
91	12.8	42.5	63.7#
77	16.0	17.4	26.2#

Manual Integrations
 APPROVED

MMDadoda
 12/10/2018 12:59:48 PM

