

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL082018\
 Data File : VL032412.D
 Acq On : 20 Aug 2018 20:03
 Operator : SY/AP
 Sample : J4472-02
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-2

Manual Integrations
 APPROVED

apatel
 8/29/2018 1:12:19 PM

Quant Time: Aug 29 12:20:43 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL081518AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Aug 28 2018
 QLast Update : Tue Aug 28 13:07:12 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.81	49	1783507	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.35	114	3510500	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.30	117	3505078	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.64	95	2700635	10.10	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.11	85	130413	0.717	ppbv	95
3) Chlorodifluoromethane	3.05	51	102981m	0.623	ppbv	
4) Chloromethane	3.21	50	125052	1.272	ppbv	95
9) Propene	3.07	41	658923	9.319	ppbv	98
10) Heptane	8.31	43	26726m	0.125	ppbv	
11) Trichlorofluoromethane	4.05	101	759648	3.808	ppbv	93
13) Ethanol	3.69	45	504033	27.755	ppbv	97
15) Acetone	3.94	43	2902916	17.131	ppbv	99
19) Isopropyl Alcohol	4.07	45	1890009	16.564	ppbv	99
20) Methylene Chloride	4.46	84	161176	2.518	ppbv	96
26) Hexane	5.83	57	140170	0.866	ppbv	82
27) Carbon Disulfide	4.67	76	19187	0.127	ppbv #	75
29) Chloroform	5.90	83	59499m	0.251	ppbv	
34) 2-Butanone	5.38	43	1076633	4.506	ppbv	100
35) Carbon Tetrachloride	7.19	117	16958m	0.082	ppbv	
36) Benzene	7.06	78	238710	0.802	ppbv	99
38) Trichloroethene	8.01	130	50478m	0.484	ppbv	
44) 2,2,4-Trimethylpentane	8.05	57	76394	0.142	ppbv #	69
50) 4-Methyl-2-Pentanone	8.94	43	127790	0.370	ppbv	97
51) 2-Hexanone	10.33	43	149973	0.619	ppbv #	94
52) Tetrachloroethene	11.43	164	104573	1.191	ppbv #	80
53) Toluene	10.01	91	979195	3.001	ppbv	98
58) Ethyl Benzene	12.93	91	84547	0.200	ppbv	89
59) m/p-Xylene	13.18	91	240930m	0.673	ppbv	
60) o-Xylene	13.91	91	118182m	0.336	ppbv	
61) Styrene	13.75	104	52787m	0.215	ppbv	
74) 1,2,4-Trimethylbenzene	16.99	105	83122m	0.207	ppbv	
76) 1,4-Dichlorobenzene	17.38	146	8609275	37.629	ppbv	99
79) Naphthalene	22.49	128	87768	0.299	ppbv #	94

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

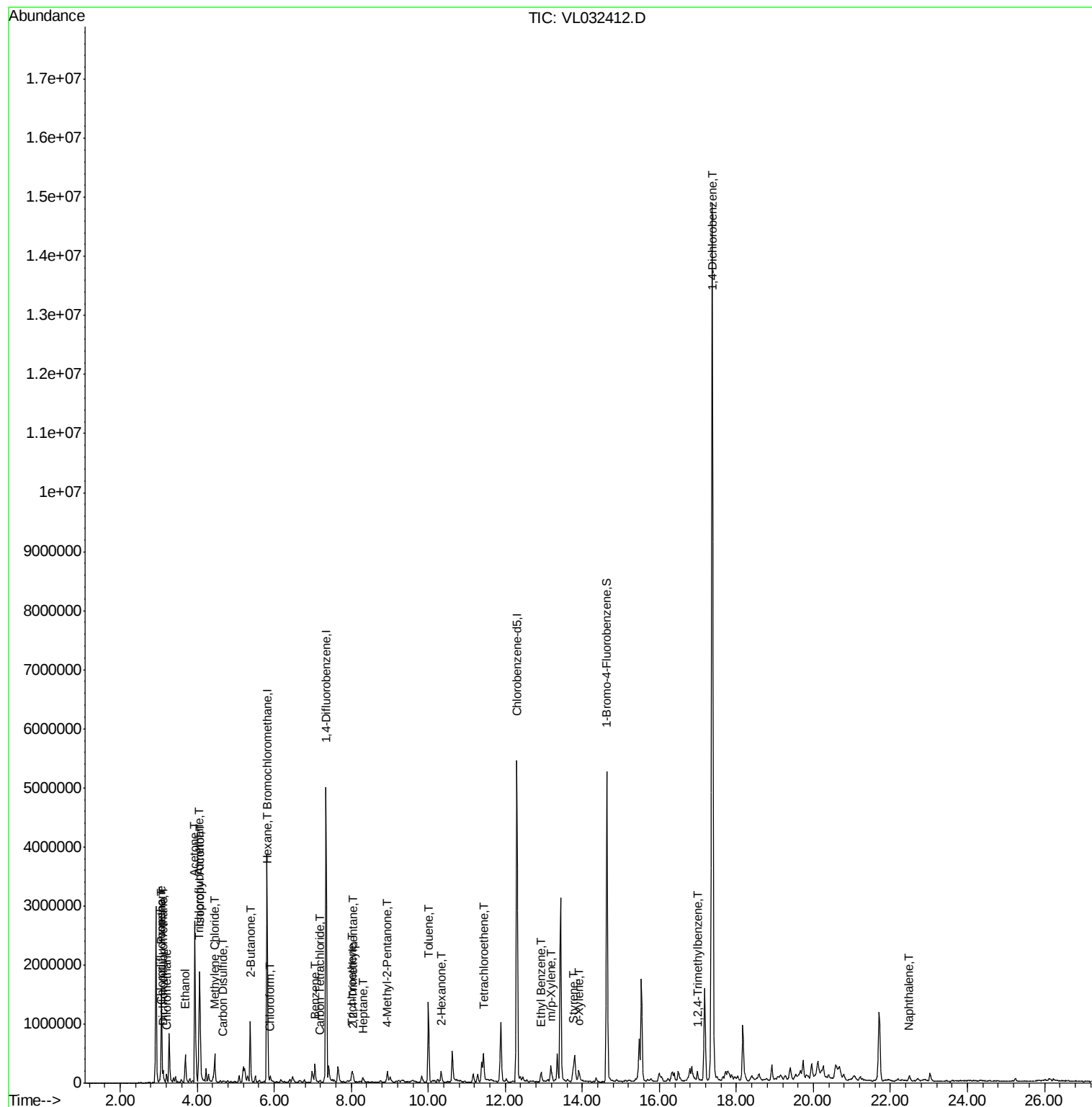
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL082018\
Data File : VL032412.D
Acq On : 20 Aug 2018 20:03
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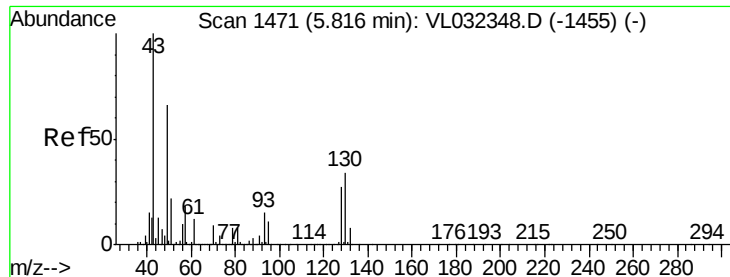
Instrument :
MSVOA_L
ClientSampleId :
SS-2

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Quant Time: Aug 29 12:20:43 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL081518AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Aug
QLast Update : Tue Aug 28 13:07:12 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.81 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VL032412.D

Acq: 20 Aug 2018 20:03

Instrument :

MSVOA_L

ClientSampled :

SS-2

Tgt Ion: 49 Resp: 1783507

Ion Ratio Lower Upper

49 100

128 41.5 20.5 61.6

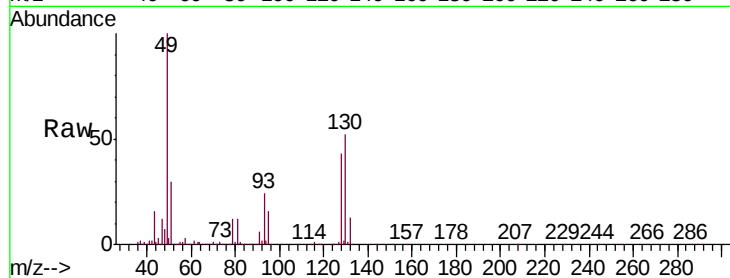
130 52.2 26.2 78.5

Manual Integrations

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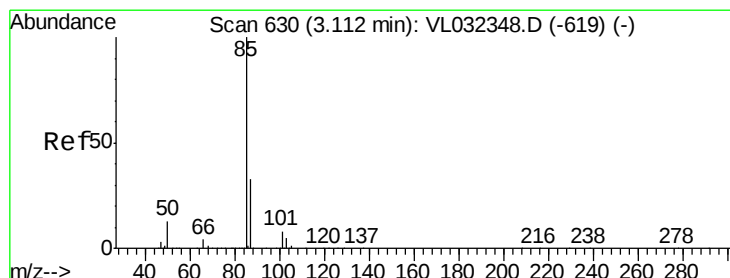
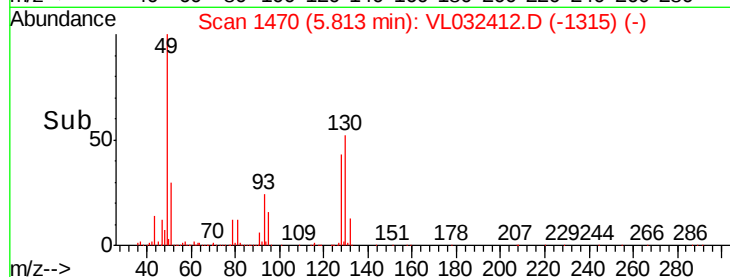
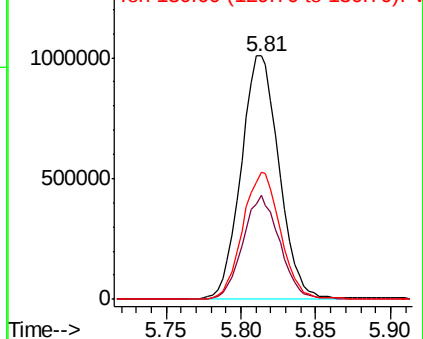
8/29/2018 1:12:19 PM



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: 0.717 ppbv

RT: 3.11 min Scan# 630

Delta R.T. 0.00 min

Lab File: VL032412.D

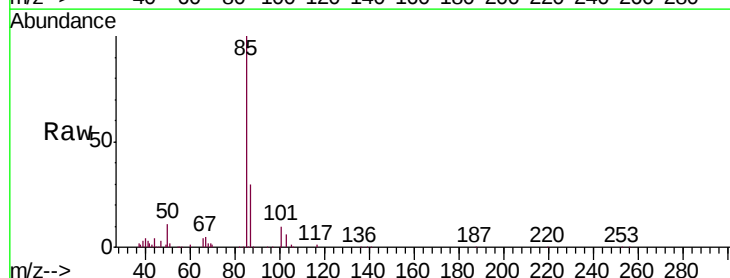
Acq: 20 Aug 2018 20:03

Tgt Ion: 85 Resp: 130413

Ion Ratio Lower Upper

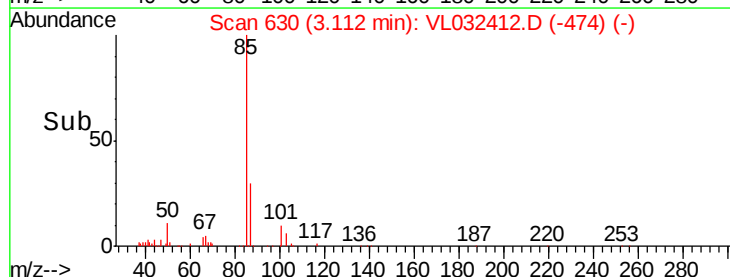
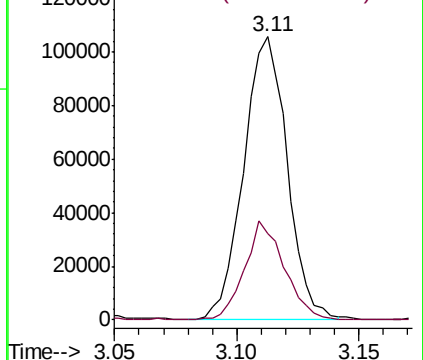
85 100

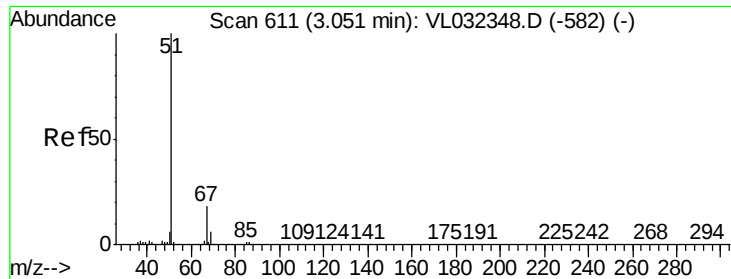
87 30.3 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.623 ppbv m

RT: 3.05 min Scan# 610

Delta R.T. -0.00 min

Lab File: VL032412.D

Acq: 20 Aug 2018 20:03

Instrument :

MSVOA_L

ClientSampleId :

SS-2

Tgt Ion: 51 Resp: 102981

Ion Ratio Lower Upper

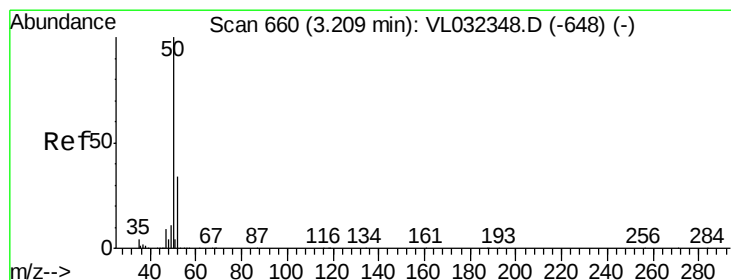
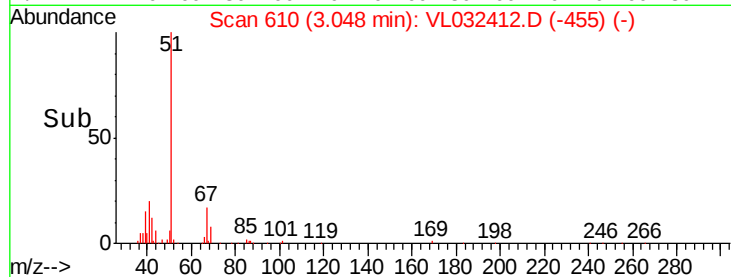
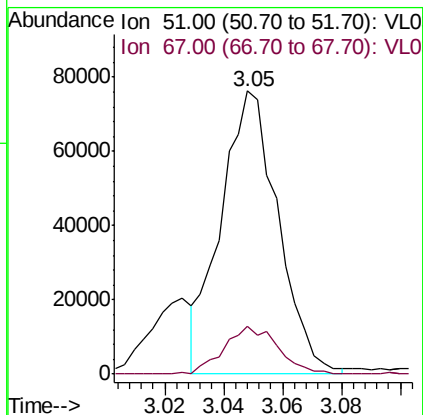
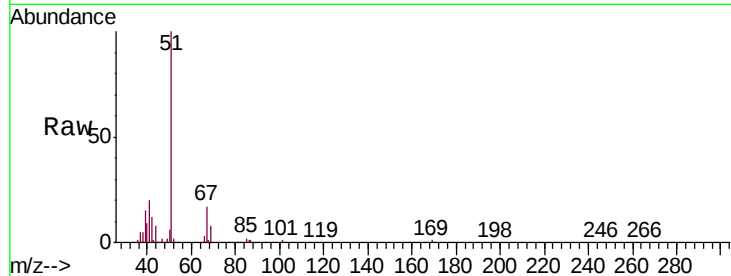
51 100

67 16.0 13.7 20.5

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#4

Chloromethane

Concen: 1.272 ppbv

RT: 3.21 min Scan# 659

Delta R.T. -0.00 min

Lab File: VL032412.D

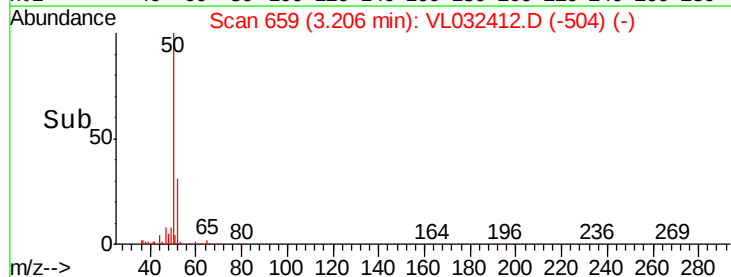
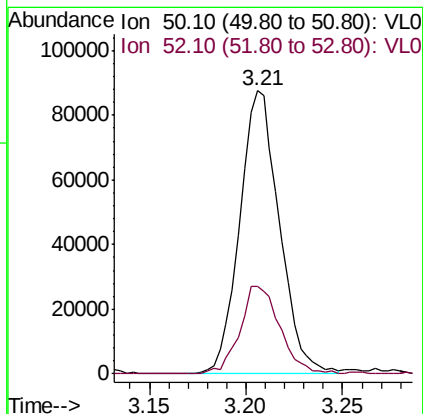
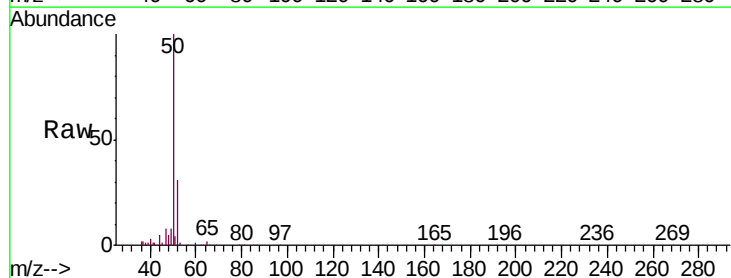
Acq: 20 Aug 2018 20:03

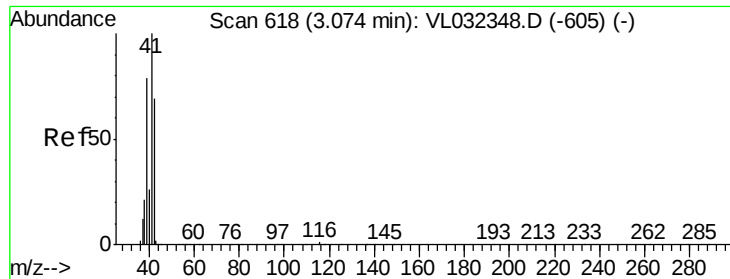
Tgt Ion: 50 Resp: 125052

Ion Ratio Lower Upper

50 100

52 30.8 26.8 40.2





#9

Propene

Concen: 9.319 ppbv

RT: 3.07 min Scan# 617

Delta R.T. -0.00 min

Lab File: VL032412.D

Acq: 20 Aug 2018 20:03

Instrument :

MSVOA_L

ClientSampled :

SS-2

Tgt Ion: 41 Resp: 658923

Ion Ratio Lower Upper

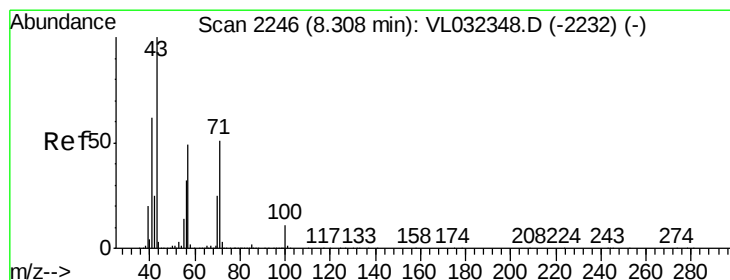
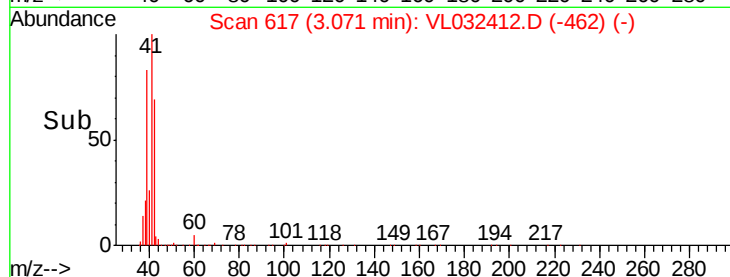
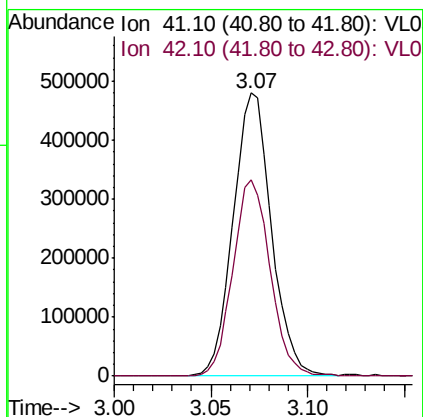
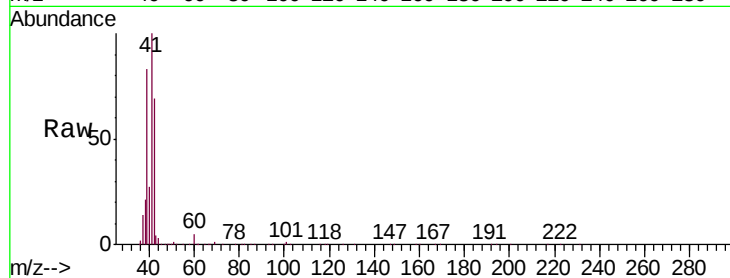
41 100

42 68.3 55.9 83.9

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#10

Heptane

Concen: 0.125 ppbv m

RT: 8.31 min Scan# 2247

Delta R.T. 0.00 min

Lab File: VL032412.D

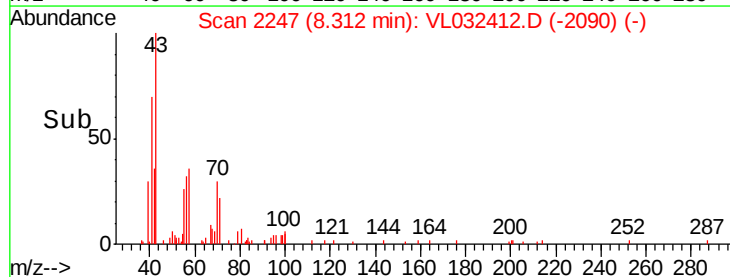
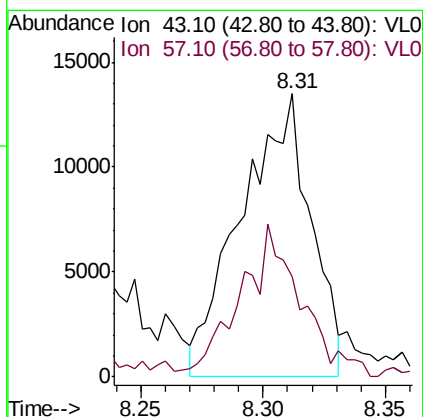
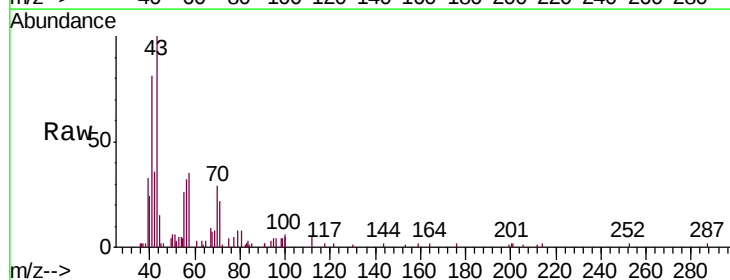
Acq: 20 Aug 2018 20:03

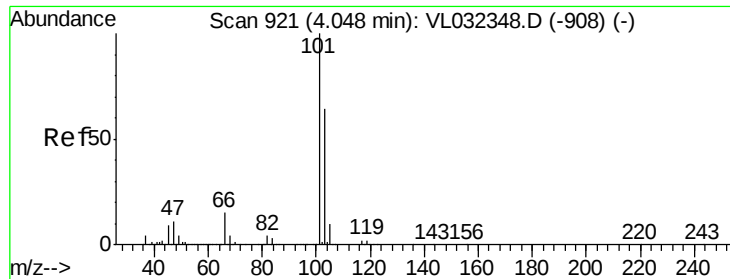
Tgt Ion: 43 Resp: 26726

Ion Ratio Lower Upper

43 100

57 48.4 39.5 59.3





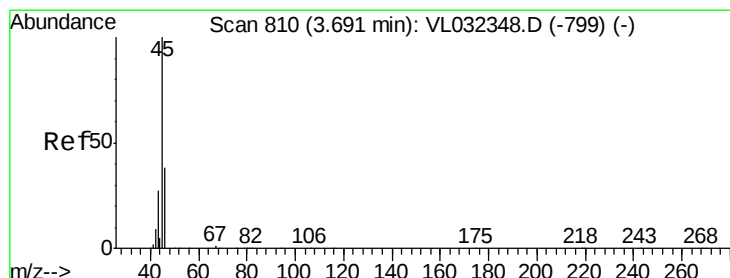
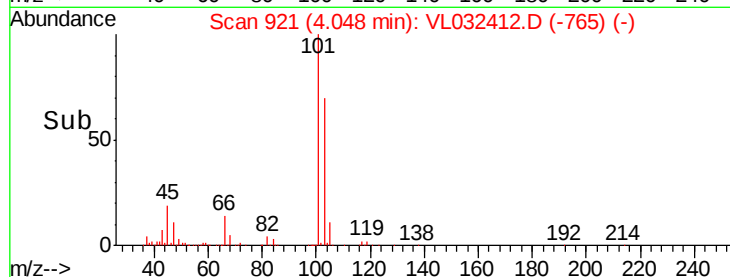
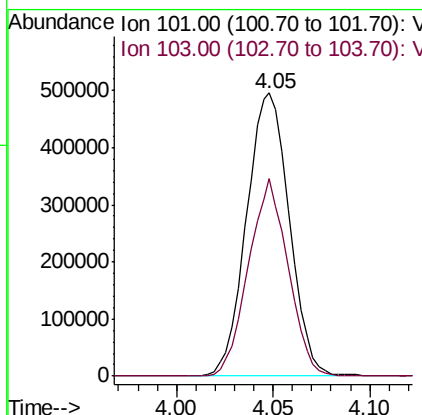
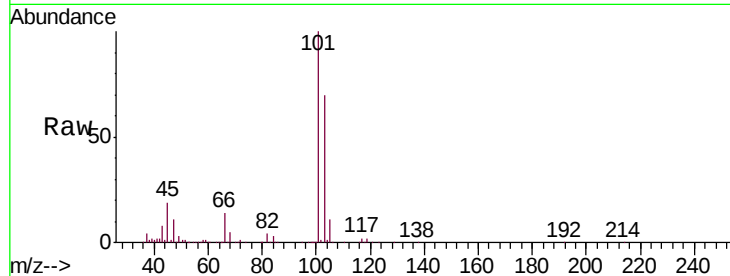
#11
 Trichlorofluoromethane
 Concen: 3.808 ppbv
 RT: 4.05 min Scan# 921
 Delta R.T. 0.00 min
 Lab File: VL032412.D
 Acq: 20 Aug 2018 20:03

Instrument :
 MSVOA_L
 ClientSampled :
 SS-2

Tgt Ion: 101 Resp: 759648
 Ion Ratio Lower Upper
 101 100
 103 69.9 51.4 77.0

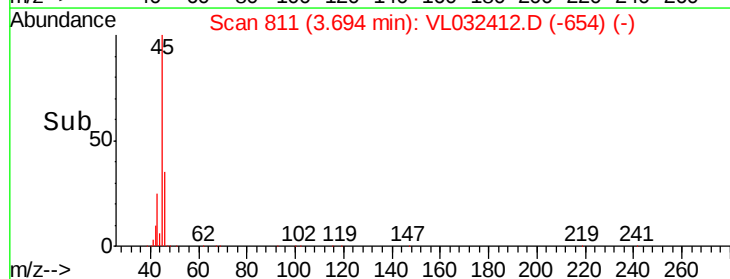
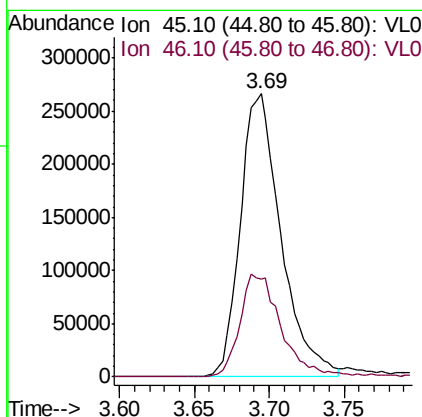
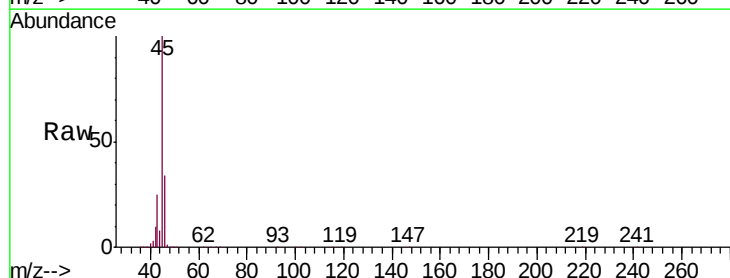
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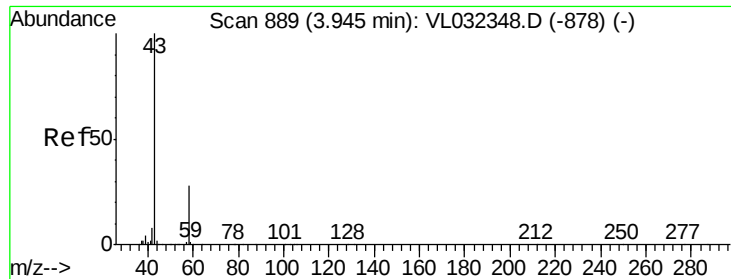
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#13
 Ethanol
 Concen: 27.755 ppbv
 RT: 3.69 min Scan# 811
 Delta R.T. 0.00 min
 Lab File: VL032412.D
 Acq: 20 Aug 2018 20:03

Tgt Ion: 45 Resp: 504033
 Ion Ratio Lower Upper
 45 100
 46 37.1 15.6 62.4





#15

Acetone

Concen: 17.131 ppbv

RT: 3.94 min Scan# 887

Delta R.T. -0.01 min

Lab File: VL032412.D

Acq: 20 Aug 2018 20:03

Instrument :

MSVOA_L

ClientSampleId :

SS-2

Tgt Ion: 43 Resp: 2902916

Ion Ratio Lower Upper

43 100

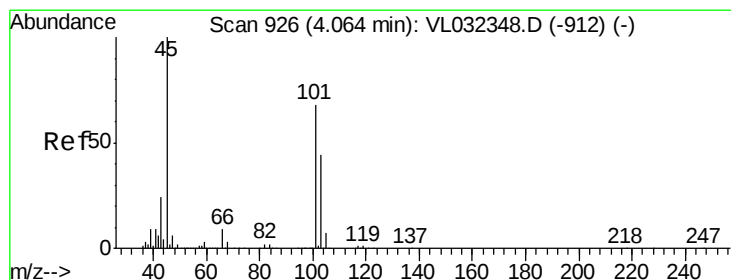
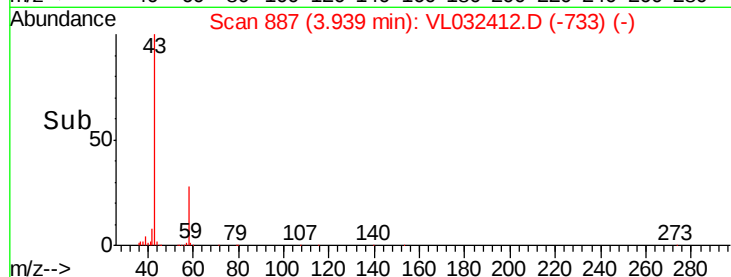
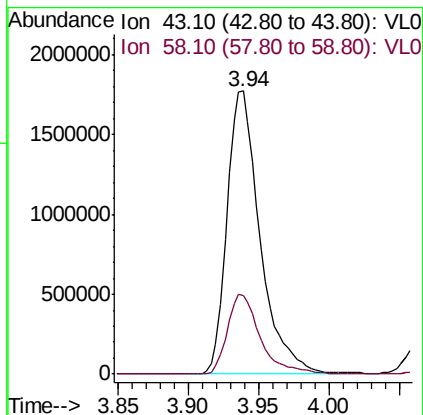
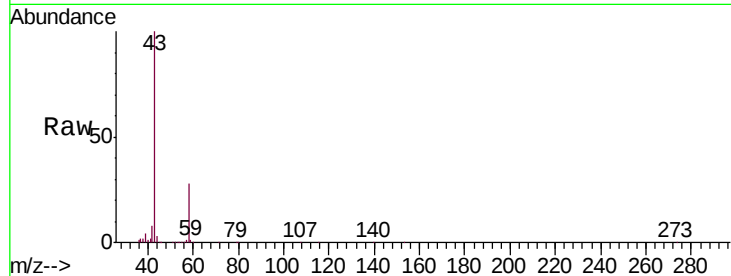
58 28.5 22.4 33.6

Manual Integrations

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#19

Isopropyl Alcohol

Concen: 16.564 ppbv

RT: 4.07 min Scan# 927

Delta R.T. 0.00 min

Lab File: VL032412.D

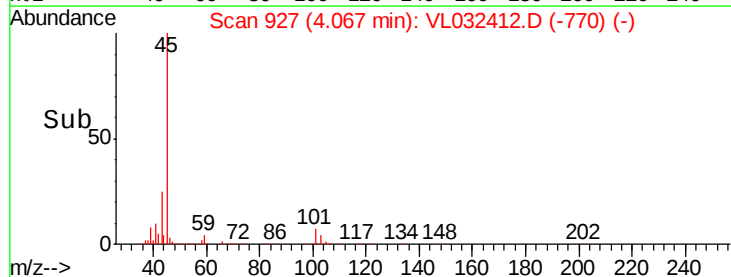
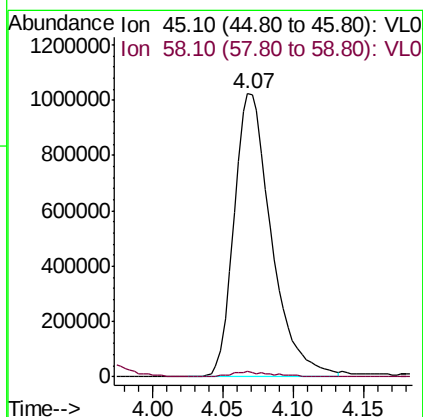
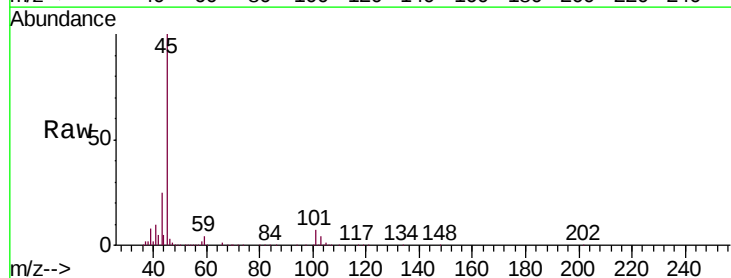
Acq: 20 Aug 2018 20:03

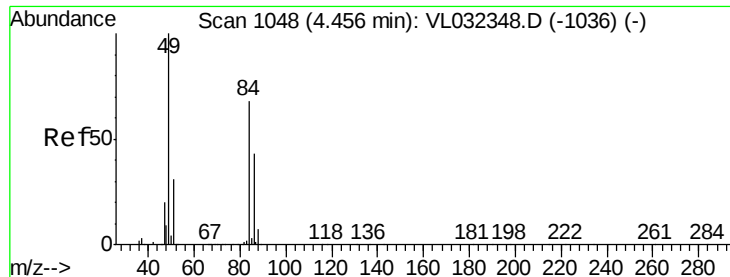
Tgt Ion: 45 Resp: 1890009

Ion Ratio Lower Upper

45 100

58 2.0 1.4 2.0





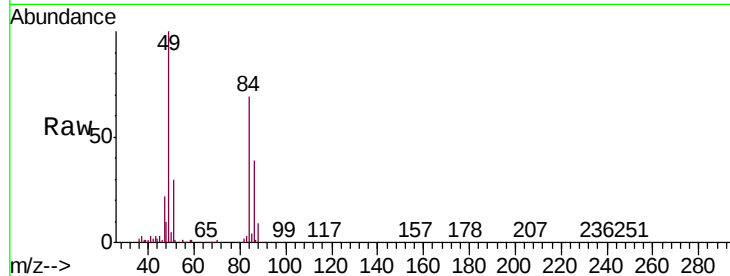
#20
Methylene Chloride
Concen: 2.518 ppbv
RT: 4.46 min Scan# 1048
Delta R.T. 0.00 min
Lab File: VL032412.D
Acq: 20 Aug 2018 20:03

Instrument :
MSVOA_L
ClientSampled :
SS-2

Tgt Ion	Ratio	Resp	Lower	Upper
84	100			
49	143.9	161176	117.3	175.9
51	42.9		36.6	55.0
86	57.1		49.8	74.8

Manual Integrations
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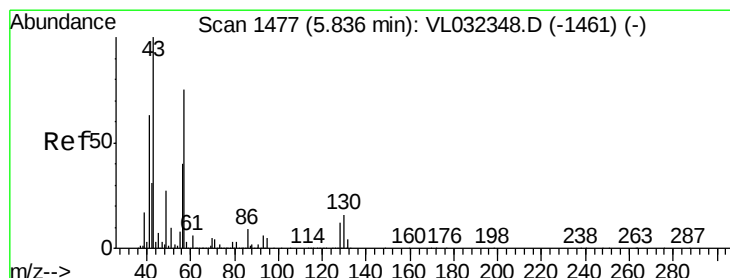
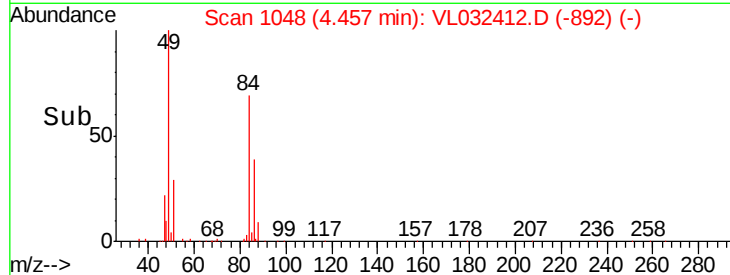
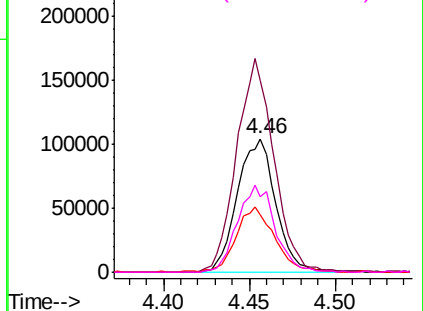
Abundance

Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



#26
Hexane
Concen: 0.866 ppbv
RT: 5.83 min Scan# 1476
Delta R.T. -0.00 min
Lab File: VL032412.D
Acq: 20 Aug 2018 20:03

Tgt Ion	Ratio	Resp	Lower	Upper
57	100			
41	101.7	140170	68.0	102.0
43	250.2		175.3	262.9
56	62.4		42.0	63.0

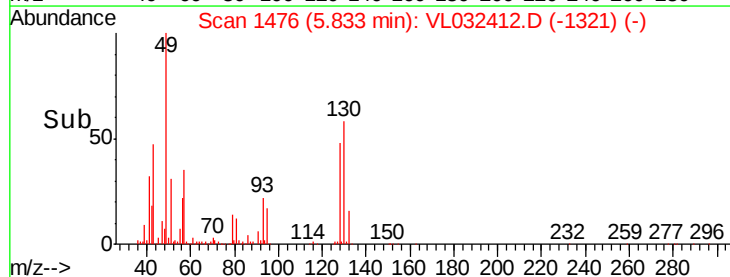
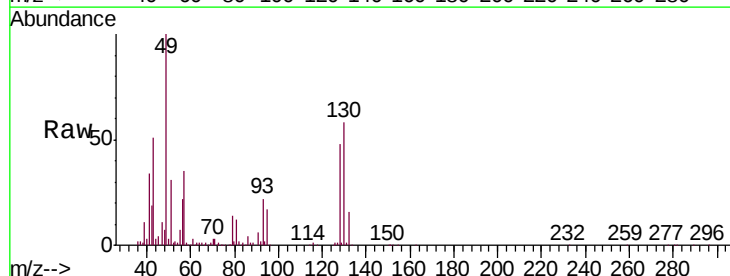
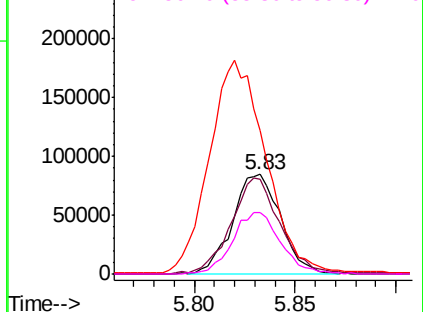
Abundance

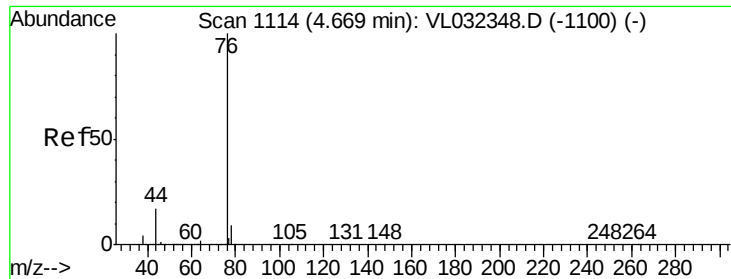
Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





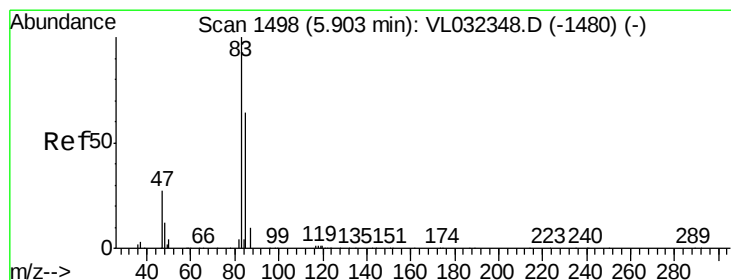
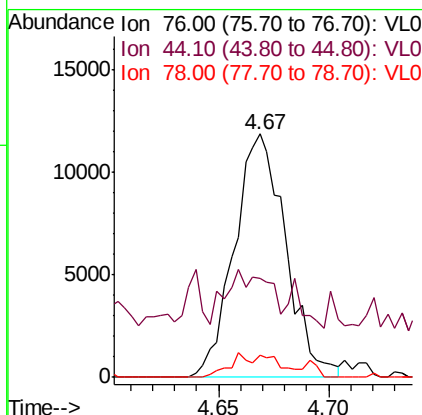
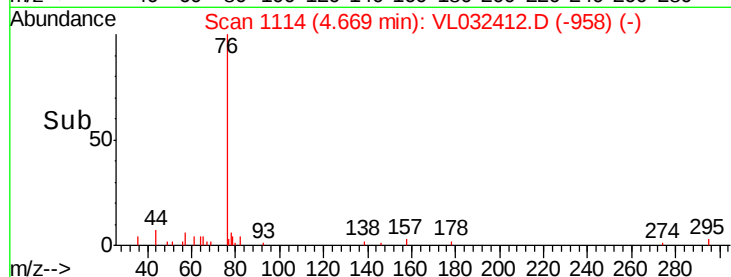
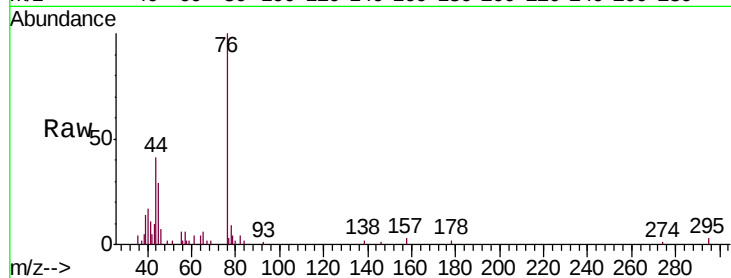
#27
Carbon Disulfide
Concen: 0.127 ppbv
RT: 4.67 min Scan# 1114
Delta R.T. 0.00 min
Lab File: VL032412.D
Acq: 20 Aug 2018 20:03

Instrument :
MSVOA_L
ClientSampleId :
SS-2

Tgt Ion	Ratio	Lower	Upper
76	100		
44	34.3	14.4	21.6#
78	10.3	7.4	11.0

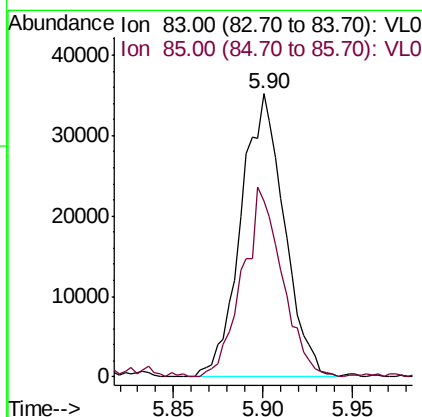
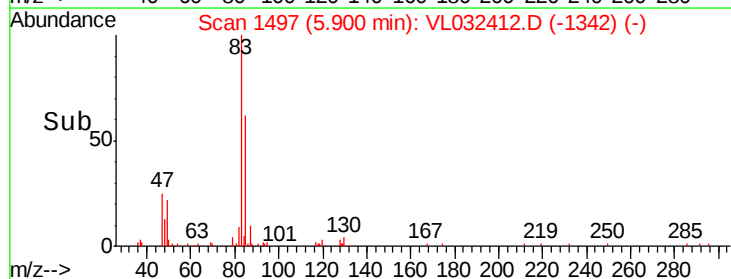
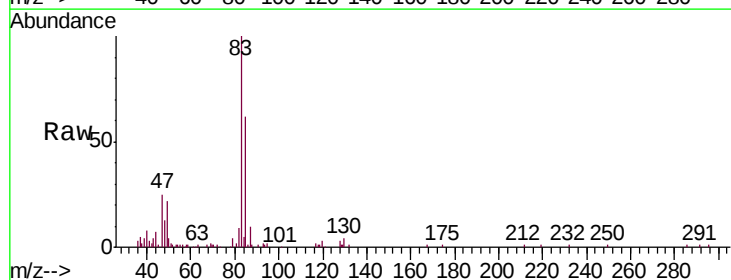
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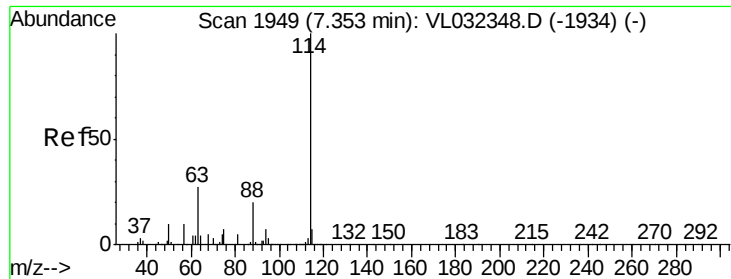
apatel
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#29
Chloroform
Concen: 0.251 ppbv m
RT: 5.90 min Scan# 1497
Delta R.T. -0.00 min
Lab File: VL032412.D
Acq: 20 Aug 2018 20:03

Tgt Ion	Ratio	Lower	Upper
83	100		
85	61.9	51.6	77.4





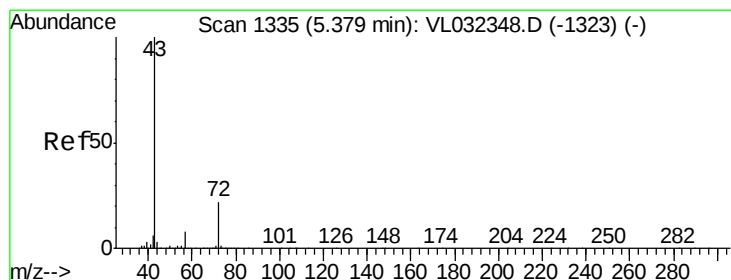
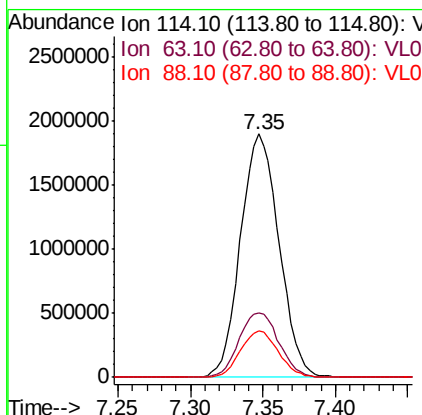
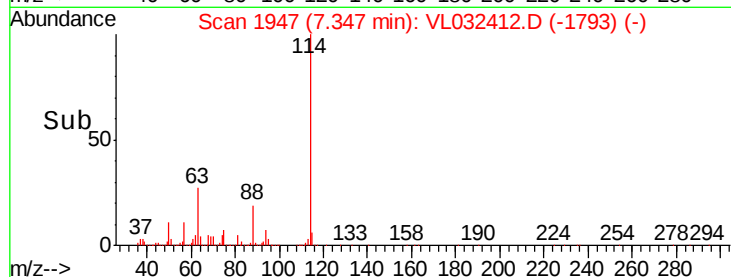
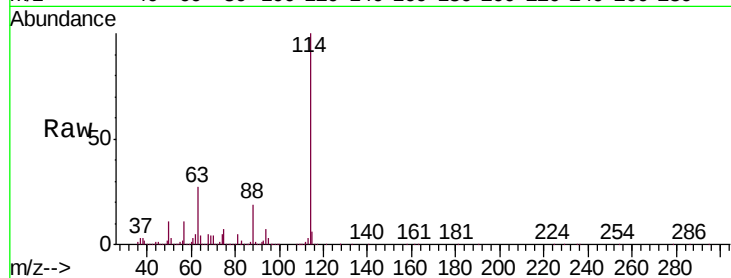
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.35 min Scan# 1947
 Delta R.T. -0.01 min
 Lab File: VL032412.D
 Acq: 20 Aug 2018 20:03

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-2

Tgt Ion	Ratio	Lower	Upper
114	100		
63	27.5	22.0	33.0
88	18.9	15.3	22.9

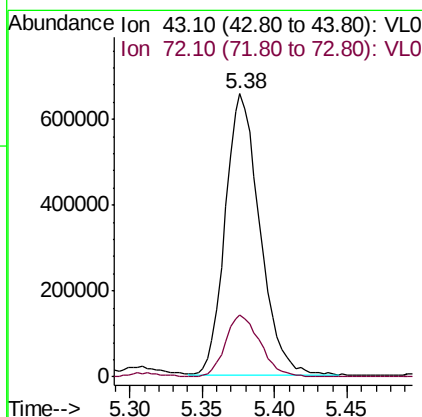
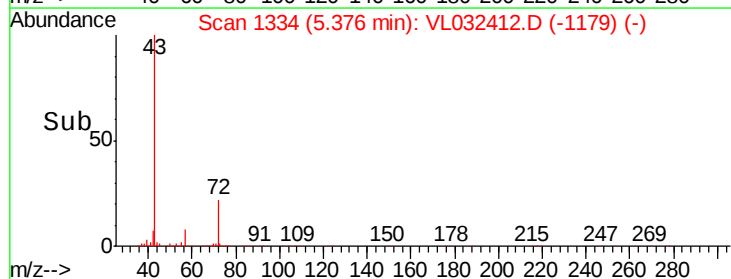
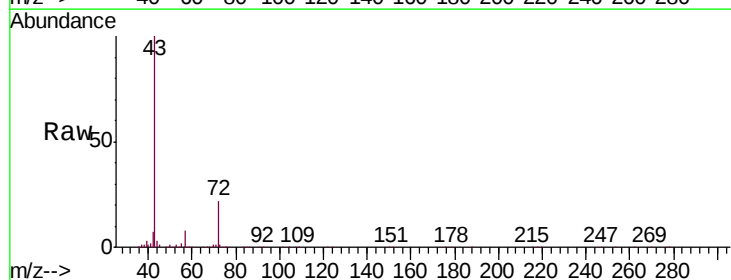
Manual Integrations
 APPROVED

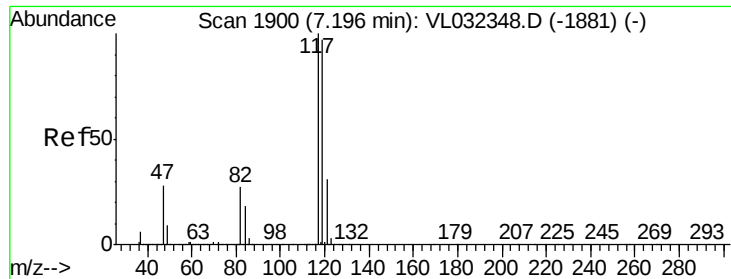
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#34
 2-Butanone
 Concen: 4.506 ppbv
 RT: 5.38 min Scan# 1334
 Delta R.T. -0.00 min
 Lab File: VL032412.D
 Acq: 20 Aug 2018 20:03

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.5	17.9	26.9





#35

Carbon Tetrachloride

Concen: 0.082 ppbv m

RT: 7.19 min Scan# 1897

Delta R.T. -0.01 min

Lab File: VL032412.D

Acq: 20 Aug 2018 20:03

Instrument :

MSVOA_L

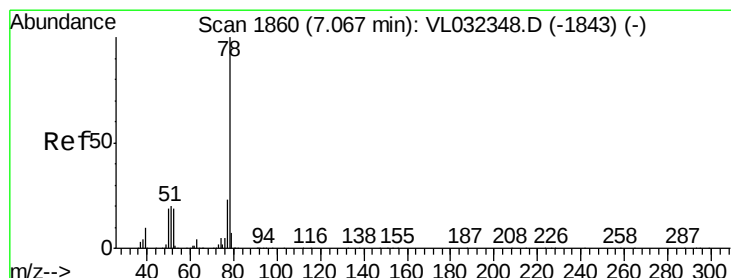
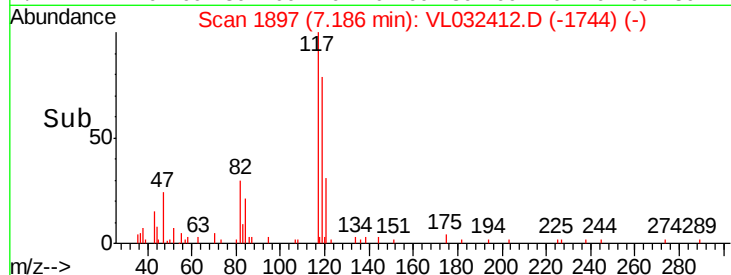
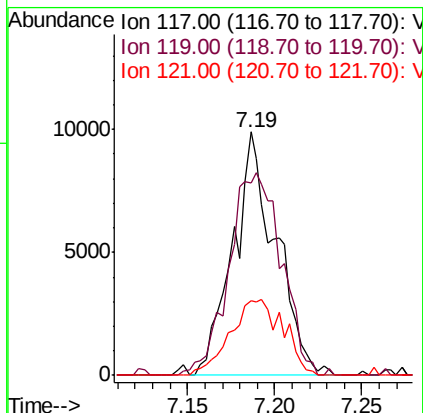
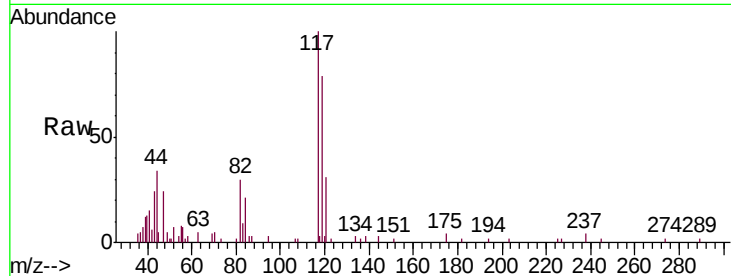
ClientSampled :

SS-2

Tgt Ion:	117	Resp:	16958
Ion Ratio	Lower	Upper	
117	100		
119	79.2	77.2	115.8
121	30.9	25.1	37.7

Manual Integrations
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#36

Benzene

Concen: 0.802 ppbv

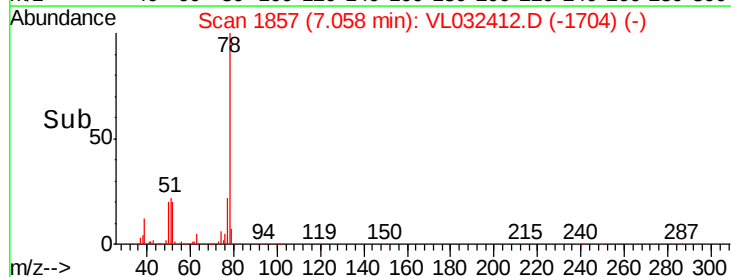
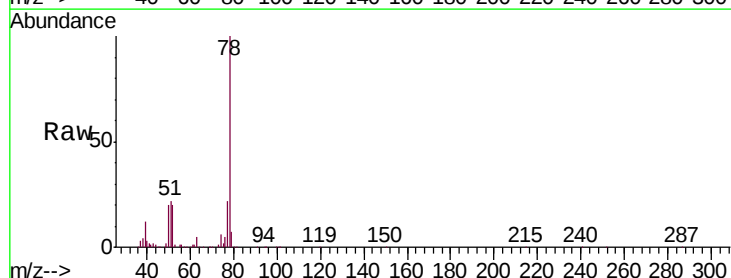
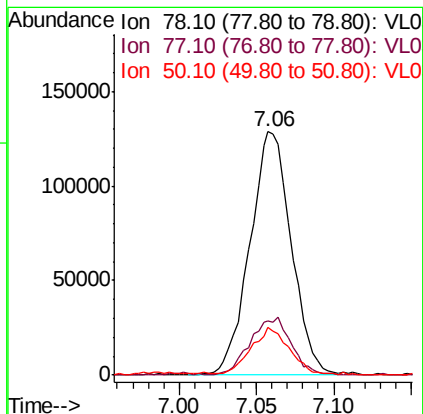
RT: 7.06 min Scan# 1857

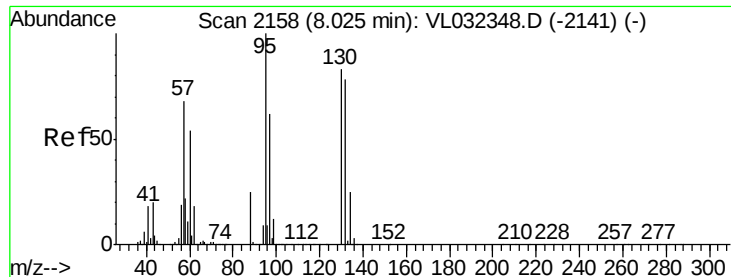
Delta R.T. -0.01 min

Lab File: VL032412.D

Acq: 20 Aug 2018 20:03

Tgt Ion:	78	Resp:	238710
Ion Ratio	Lower	Upper	
78	100		
77	22.3	18.0	27.0
50	19.4	15.1	22.7





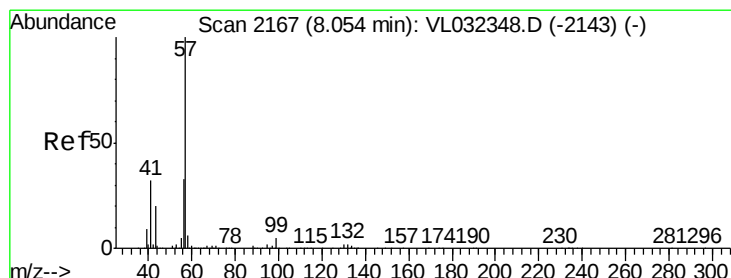
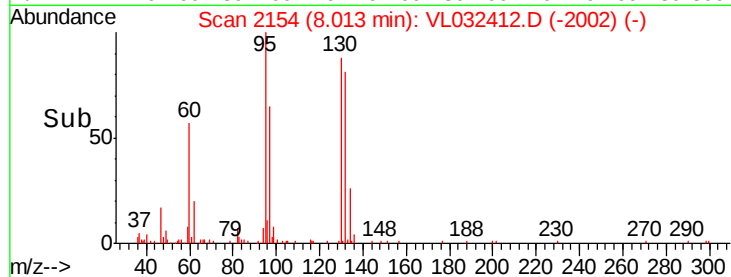
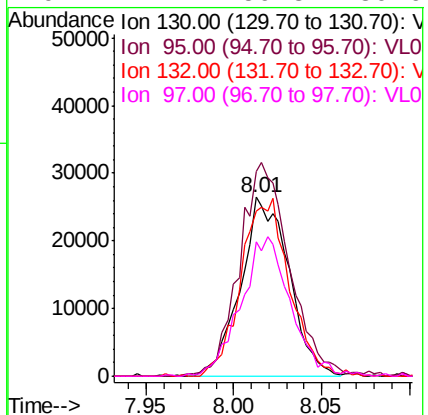
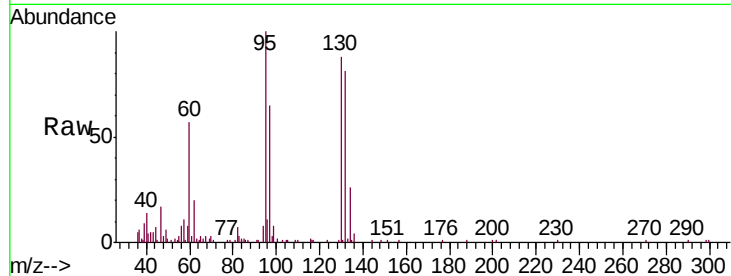
#38
 Trichloroethene
 Concen: 0.484 ppbv m
 RT: 8.01 min Scan# 2154
 Delta R.T. -0.01 min
 Lab File: VL032412.D
 Acq: 20 Aug 2018 20:03

Instrument :
 MSVOA_L
 ClientSampleID :
 SS-2

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	50478		
95	114.1	96.6	144.8	
132	92.2	75.5	113.3	
97	74.7	59.8	89.6	

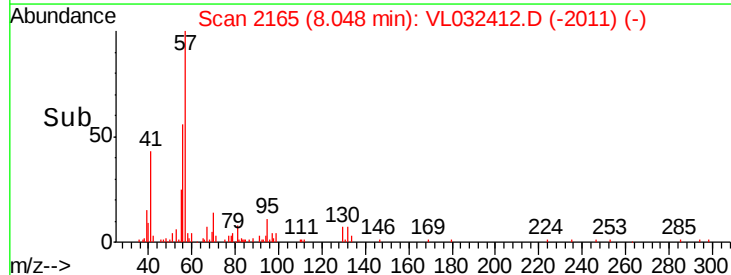
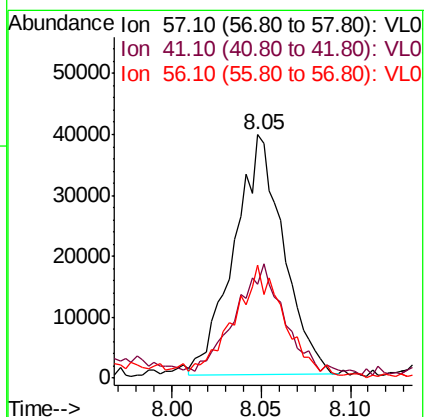
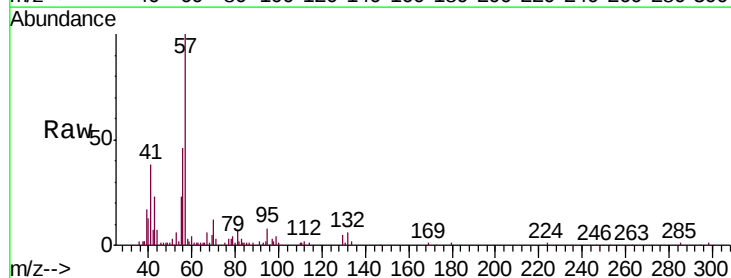
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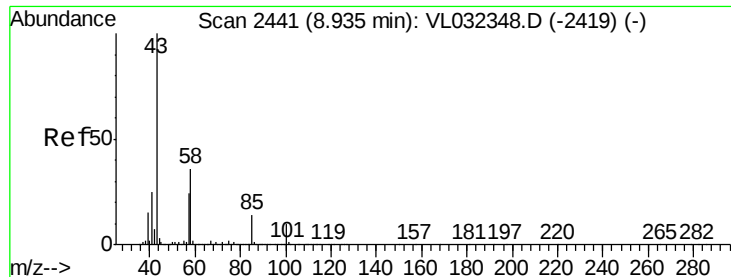
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#44
 2,2,4-Trimethylpentane
 Concen: 0.142 ppbv
 RT: 8.05 min Scan# 2165
 Delta R.T. -0.01 min
 Lab File: VL032412.D
 Acq: 20 Aug 2018 20:03

Tgt Ion	Ratio	Resp	Lower	Upper
57	100	76394		
41	47.1	24.3	36.5#	
56	49.4	25.7	38.5#	





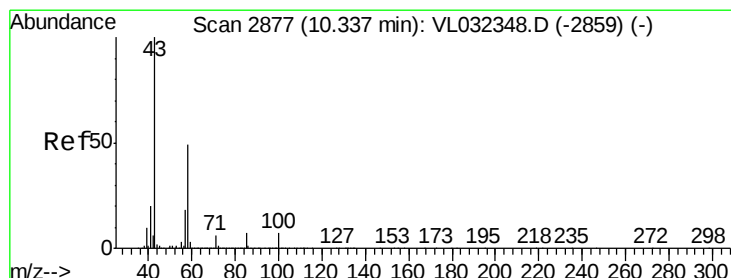
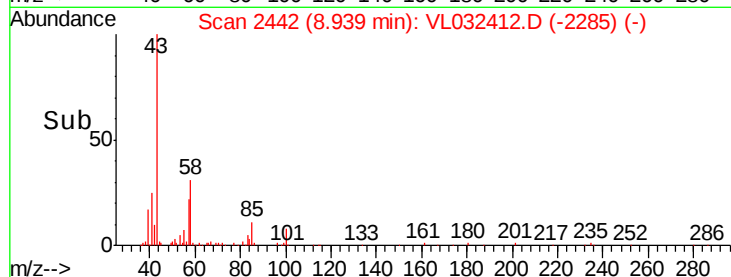
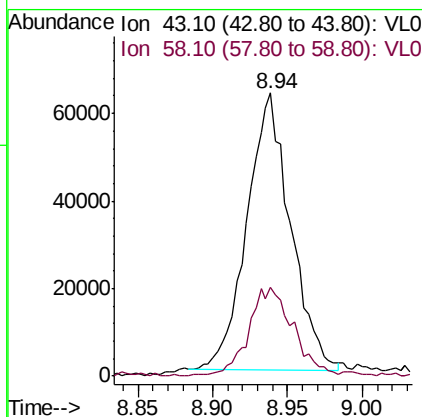
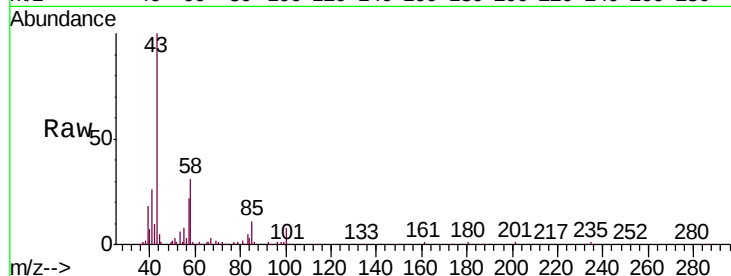
#50
4-Methyl-2-Pentanone
Concen: 0.370 ppbv
RT: 8.94 min Scan# 2442
Delta R.T. 0.00 min
Lab File: VL032412.D
Acq: 20 Aug 2018 20:03

Instrument :
MSVOA_L
ClientSampled :
SS-2

Tgt Ion	Ratio	Lower	Upper
43	100		
58	34.2	28.9	43.3

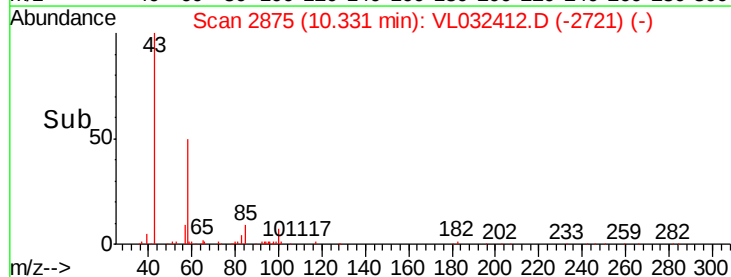
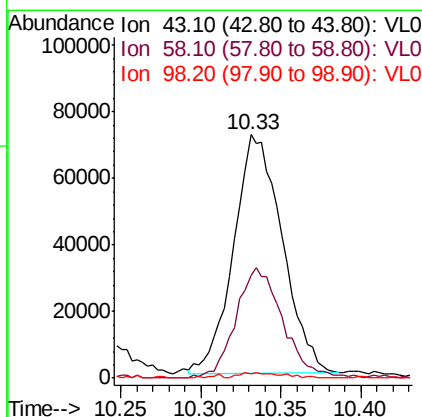
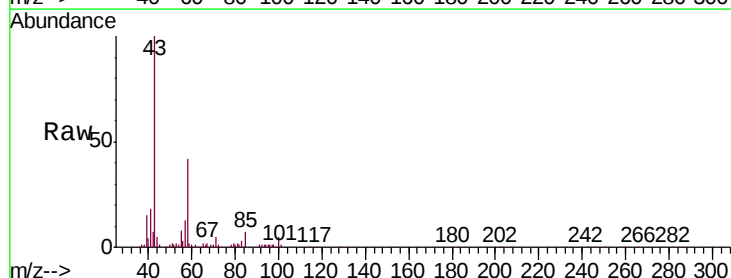
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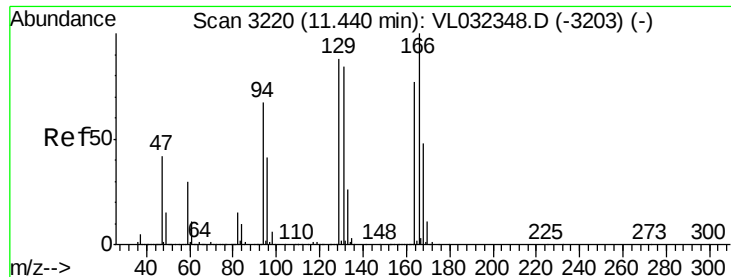
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#51
2-Hexanone
Concen: 0.619 ppbv
RT: 10.33 min Scan# 2875
Delta R.T. -0.01 min
Lab File: VL032412.D
Acq: 20 Aug 2018 20:03

Tgt Ion	Ratio	Lower	Upper
43	100		
58	44.9	39.5	59.3
98	2.5	0.3	0.5#





#52

Tetrachloroethene

Concen: 1.191 ppbv

RT: 11.43 min Scan# 3217

Delta R.T. -0.01 min

Lab File: VL032412.D

Acq: 20 Aug 2018 20:03

Instrument :

MSVOA_L

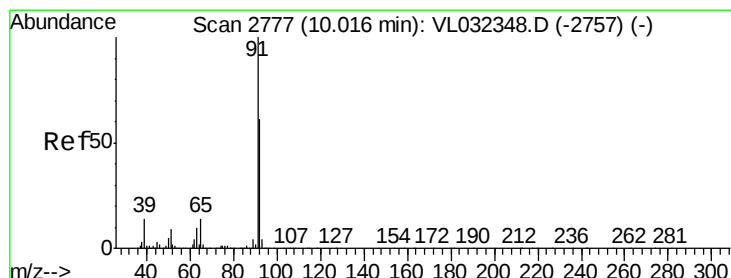
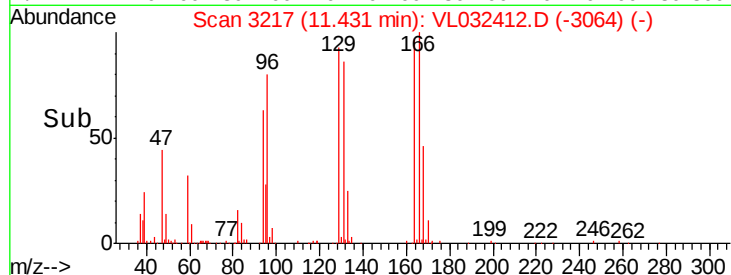
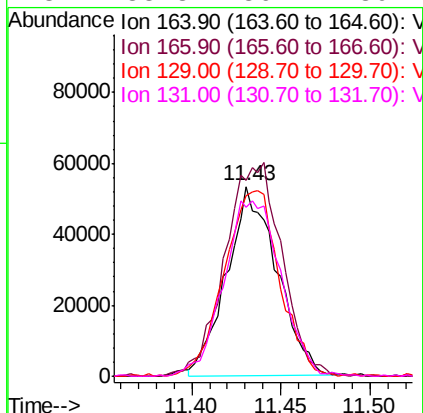
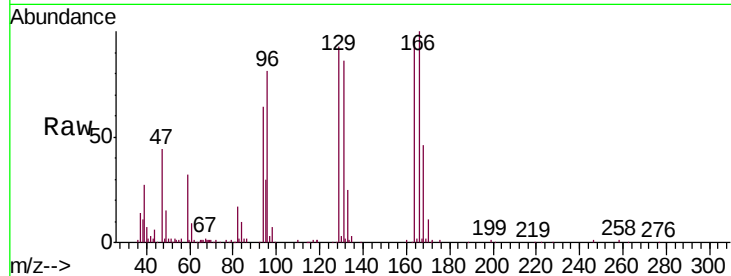
ClientSampleId :

SS-2

Tgt Ion:	164	Resp:	104573
Ion Ratio	Lower	Upper	
164	100		
166	102.5	103.5	155.3#
129	95.8	90.9	136.3
131	88.3	86.7	130.1

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#53

Toluene

Concen: 3.001 ppbv

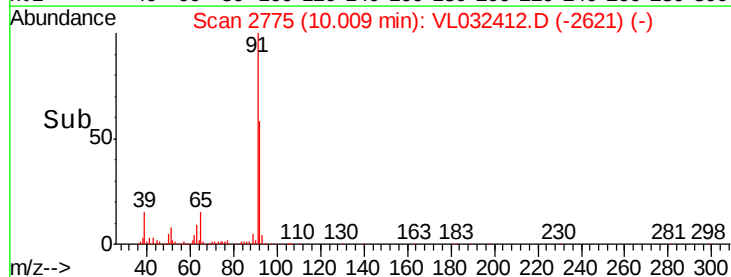
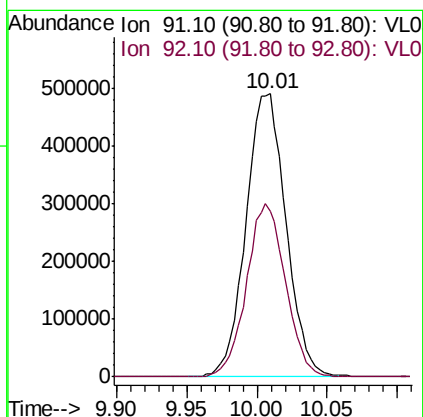
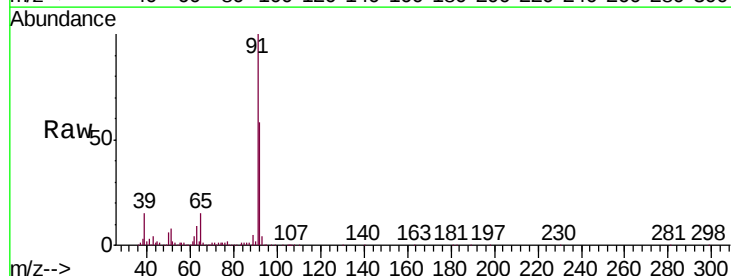
RT: 10.01 min Scan# 2775

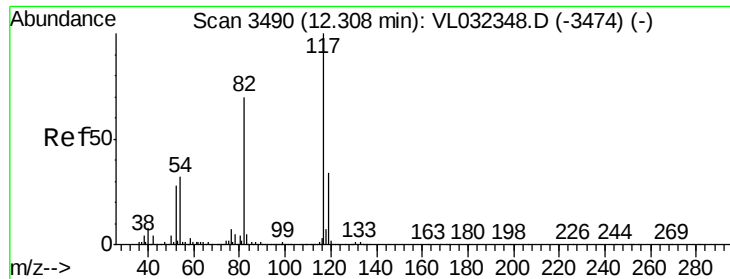
Delta R.T. -0.01 min

Lab File: VL032412.D

Acq: 20 Aug 2018 20:03

Tgt Ion:	91	Resp:	979195
Ion Ratio	Lower	Upper	
91	100		
92	59.7	48.7	73.1





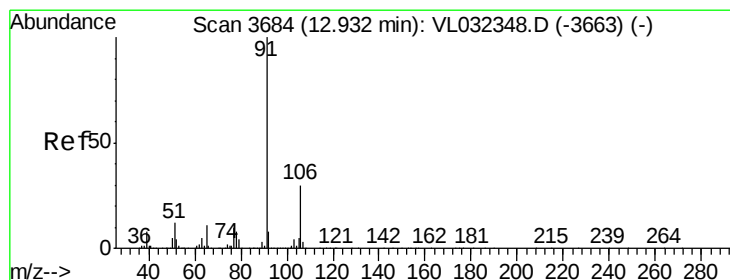
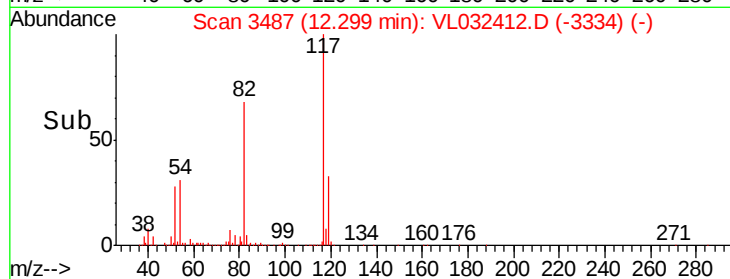
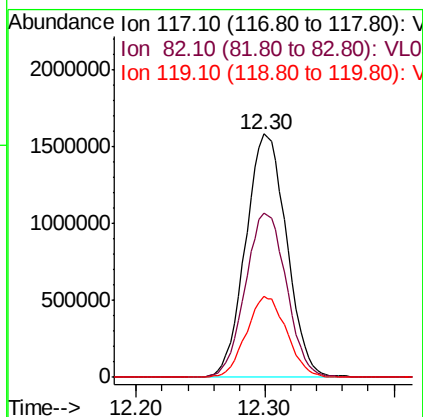
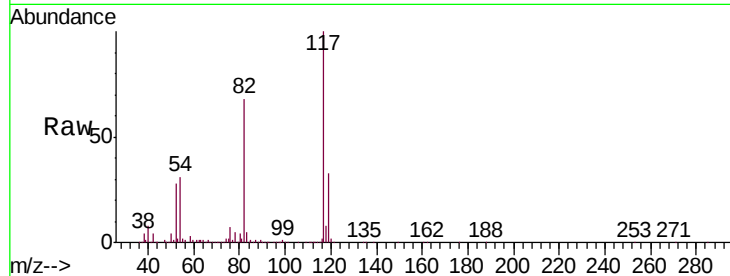
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.30 min Scan# 3487
Delta R.T. -0.01 min
Lab File: VL032412.D
Acq: 20 Aug 2018 20:03

Instrument :
MSVOA_L
ClientSampleId :
SS-2

Tgt Ion	Ratio	Lower	Upper
117	100		
82	67.8	55.1	82.7
119	32.7	46.0	69.0

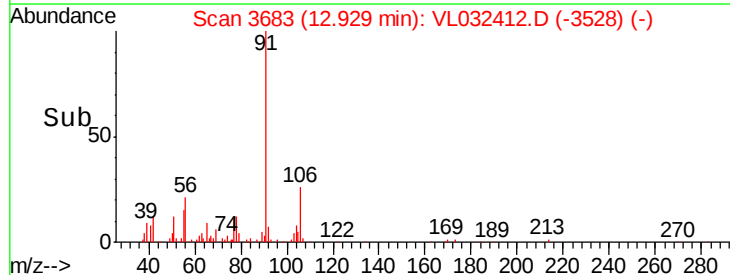
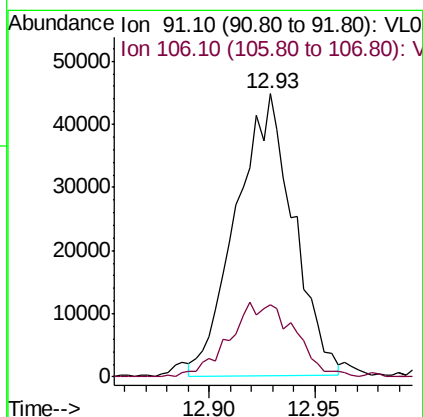
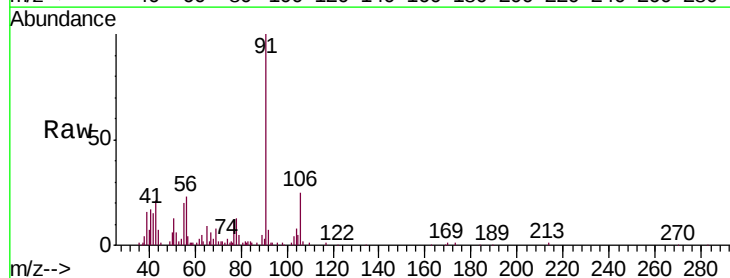
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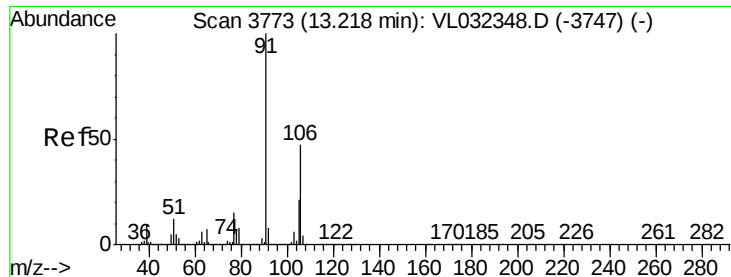
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#58
Ethyl Benzene
Concen: 0.200 ppbv
RT: 12.93 min Scan# 3683
Delta R.T. -0.00 min
Lab File: VL032412.D
Acq: 20 Aug 2018 20:03

Tgt Ion	Ratio	Lower	Upper
91	100		
106	24.7	24.3	36.5





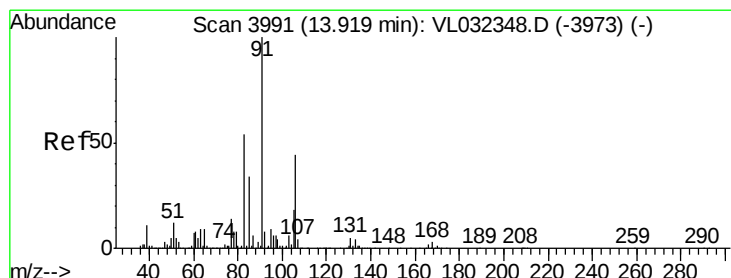
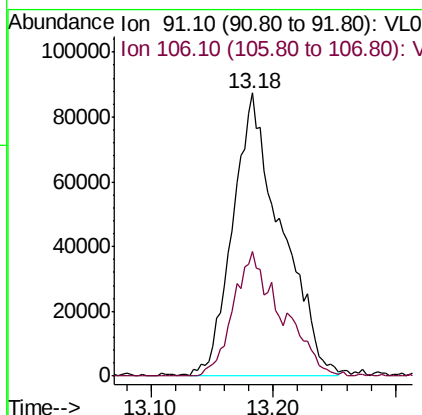
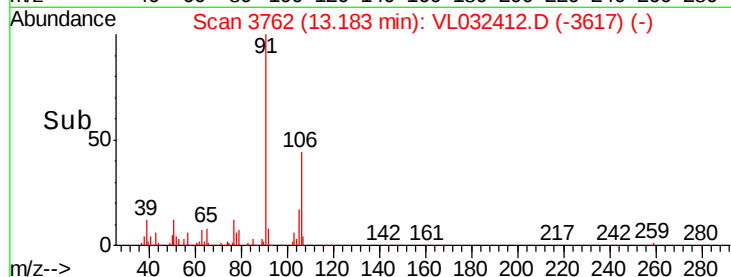
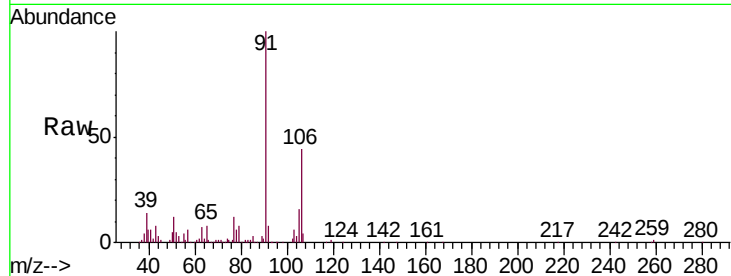
#59
m/p-Xylene
Concen: 0.673 ppbv m
RT: 13.18 min Scan# 3762
Delta R.T. -0.04 min
Lab File: VL032412.D
Acq: 20 Aug 2018 20:03

Instrument :
MSVOA_L
ClientSampled :
SS-2

Tgt Ion: 91 Resp: 240930
Ion Ratio Lower Upper
91 100
106 43.8 37.0 55.4

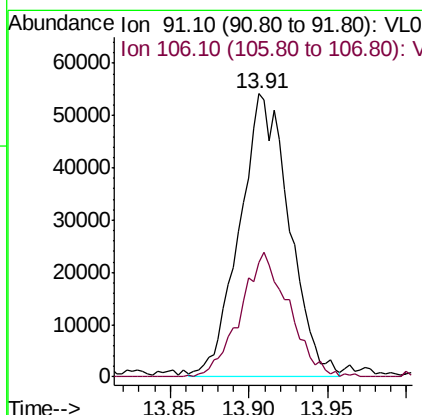
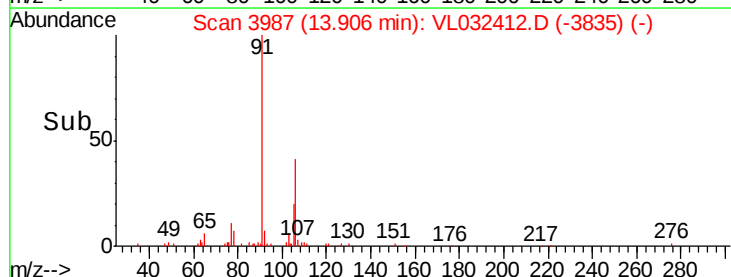
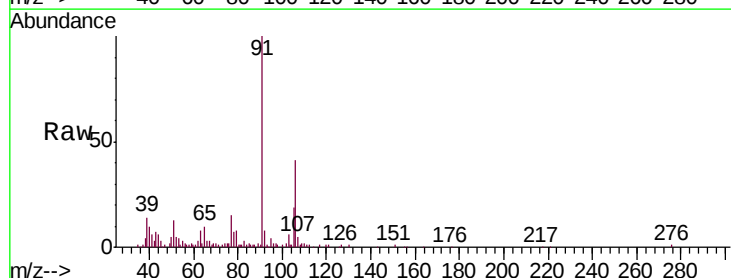
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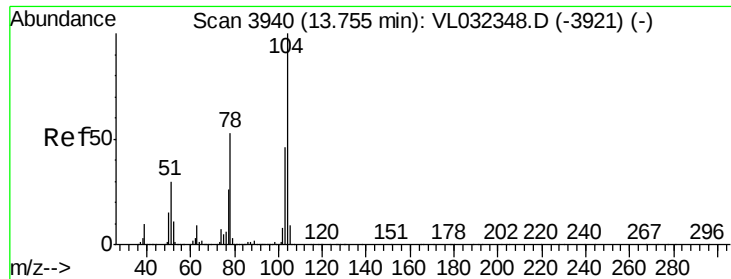
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#60
o-Xylene
Concen: 0.336 ppbv m
RT: 13.91 min Scan# 3987
Delta R.T. -0.01 min
Lab File: VL032412.D
Acq: 20 Aug 2018 20:03

Tgt Ion: 91 Resp: 118182
Ion Ratio Lower Upper
91 100
106 43.2 22.3 66.8





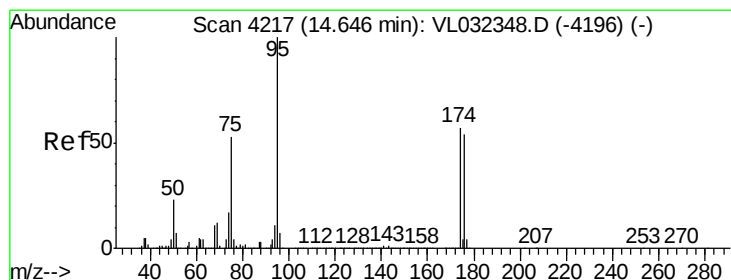
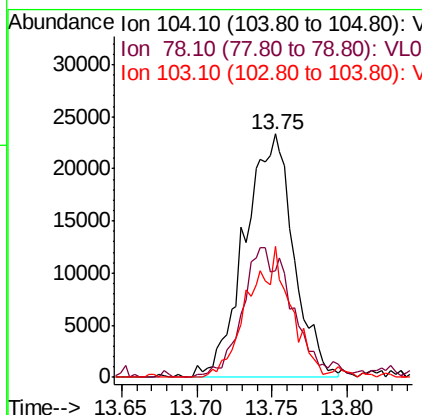
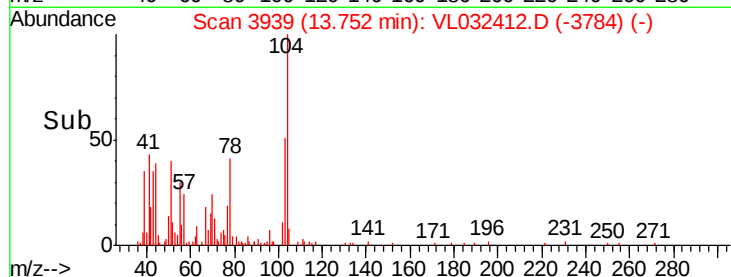
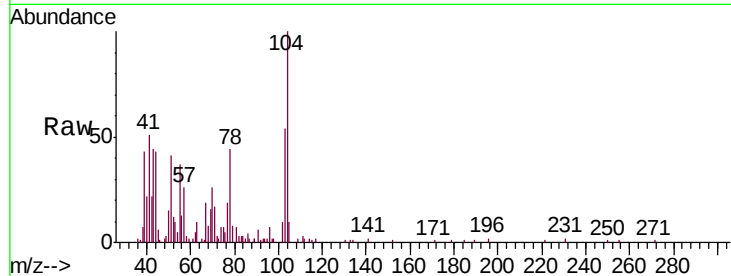
#61
Styrene
Concen: 0.215 ppbv m
RT: 13.75 min Scan# 3939
Delta R.T. -0.00 min
Lab File: VL032412.D
Acq: 20 Aug 2018 20:03

Instrument :
MSVOA_L
ClientSampled :
SS-2

Tgt Ion	Ratio	Lower	Upper
104	100		
78	55.7	42.6	64.0
103	0.0	38.0	57.0#

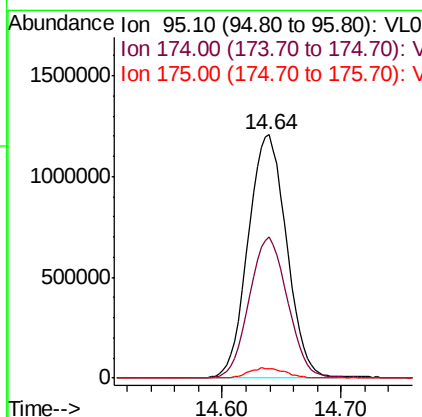
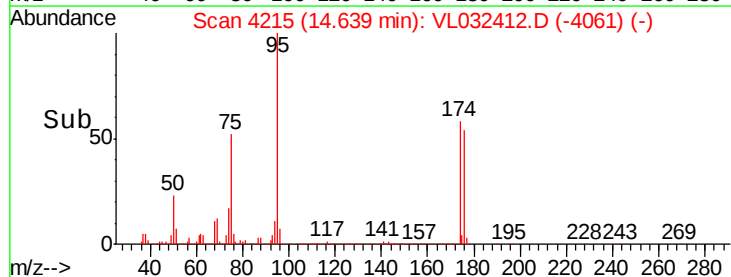
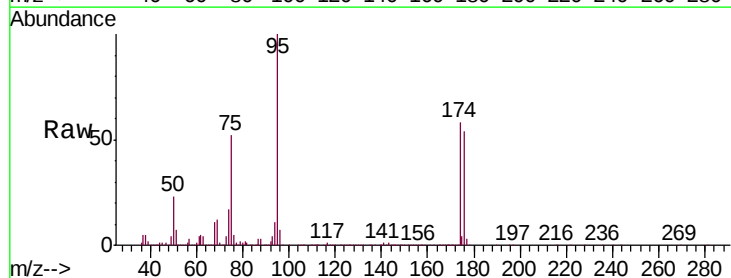
Manual Integrations
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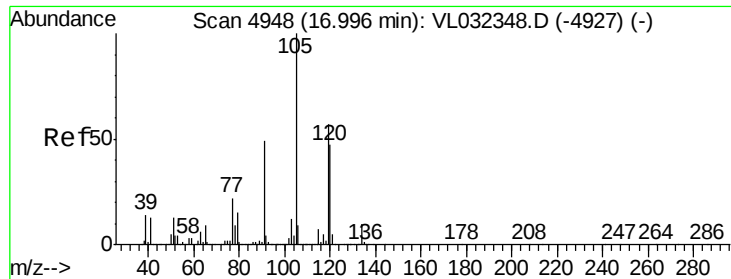
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.099 ppbv
RT: 14.64 min Scan# 4215
Delta R.T. -0.01 min
Lab File: VL032412.D
Acq: 20 Aug 2018 20:03

Tgt Ion	Ratio	Lower	Upper
95	100		
174	58.4	46.2	69.4
175	4.1	3.4	5.0





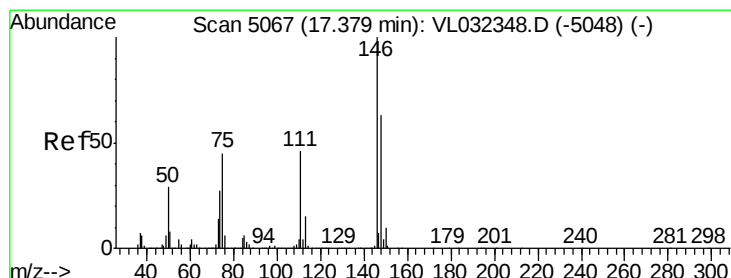
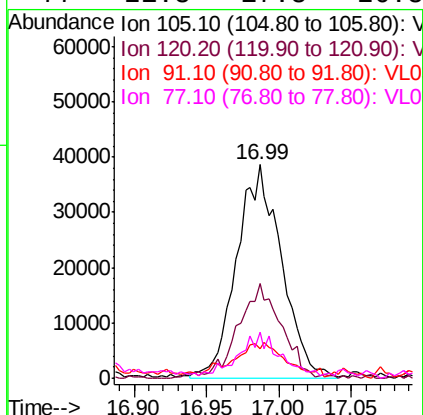
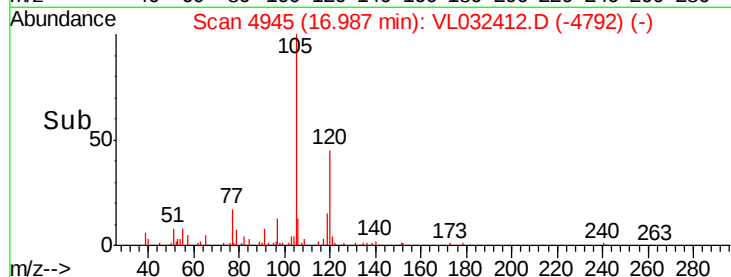
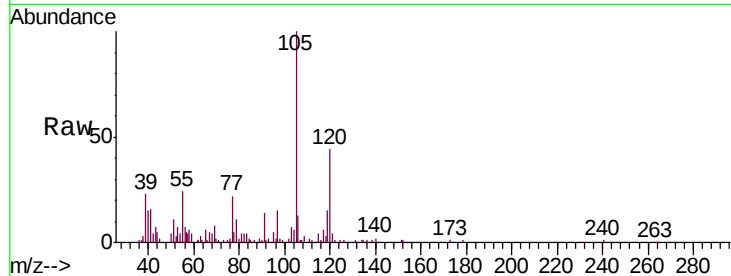
#74
 1,2,4-Trimethylbenzene
 Concen: 0.207 ppbv m
 RT: 16.99 min Scan# 4945
 Delta R.T. -0.01 min
 Lab File: VL032412.D
 Acq: 20 Aug 2018 20:03

Instrument :
 MSVOA_L
 ClientSampled :
 SS-2

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	83122		
120	44.4	37.6	56.4	
91	13.5	39.9	59.9	
77	21.8	17.8	26.8	

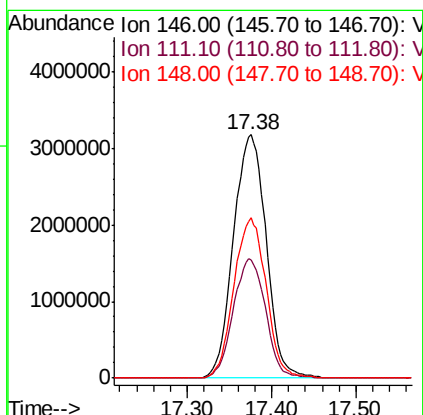
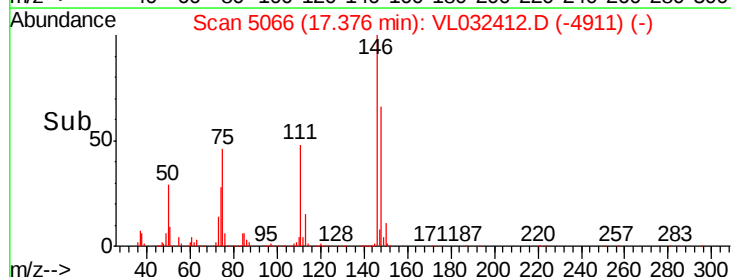
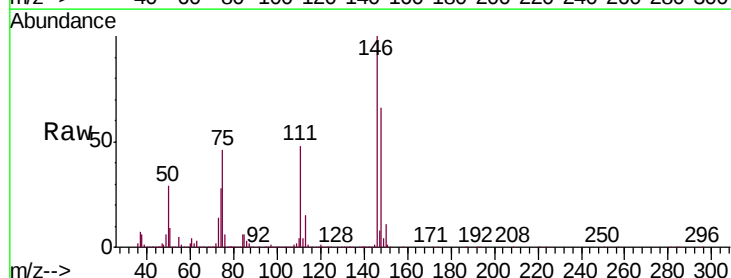
Manual Integrations
 APPROVED

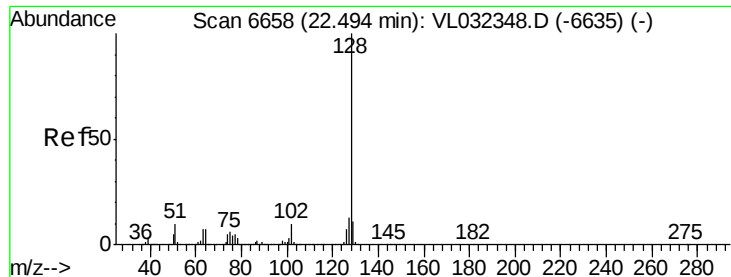
apatel
 8/29/2018 1:12:19 PM



#76
 1,4-Dichlorobenzene
 Concen: 37.629 ppbv
 RT: 17.38 min Scan# 5066
 Delta R.T. -0.00 min
 Lab File: VL032412.D
 Acq: 20 Aug 2018 20:03

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	8609275		
111	48.2	23.8	71.4	
148	64.9	32.2	96.6	





#79

Naphthalene

Concen: 0.299 ppbv

RT: 22.49 min Scan# 6656

Delta R.T. -0.01 min

Lab File: VL032412.D

Acq: 20 Aug 2018 20:03

Instrument :

MSVOA_L

ClientSampleId :

SS-2

Tgt Ion:	128	Resp:	87768
Ion Ratio		Lower	Upper
128	100		
127	9.9	10.3	15.5#
129	12.0	8.6	13.0

Manual Integrations
APPROVED

apatel
8/29/2018 1:12:19 PM

