

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091018\
 Data File : VL032490.D
 Acq On : 10 Sep 2018 22:43
 Operator : SY/AP
 Sample : J4820-03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 243-BERRY

Manual Integrations
 APPROVED

MMDadoda
 9/12/2018 3:59:40 PM

Quant Time: Sep 11 15:53:34 2018

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL083118AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 31

QLast Update : Fri Aug 31 21:33:46 2018

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.80	49	1455555	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.34	114	3478100	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.28	117	3303228	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.62	95	2440183	9.95	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.50%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.10	85	89451	0.48	ppbv	98
3) Chlorodifluoromethane	3.04	51	55398m	0.42	ppbv	
4) Chloromethane	3.20	50	42006	0.53	ppbv	92
9) Propene	3.06	41	532523	10.02	ppbv	98
11) Trichlorofluoromethane	4.03	101	40031	0.24	ppbv	88
12) 1,1,2-Trichlorotrifluoroet	4.58	101	13083m	0.12	ppbv	
13) Ethanol	3.69	45	205818	12.42	ppbv	98
15) Acetone	3.93	43	2077987	15.85	ppbv #	67
19) Isopropyl Alcohol	4.07	45	63524m	0.74	ppbv	
20) Methylene Chloride	4.44	84	273770	5.48	ppbv	98
26) Hexane	5.82	57	294967	2.13	ppbv #	47
27) Carbon Disulfide	4.65	76	76100	0.59	ppbv #	81
29) Chloroform	5.89	83	140190	0.66	ppbv	91
34) 2-Butanone	5.36	43	7727894	33.45	ppbv	96
35) Carbon Tetrachloride	7.17	117	18698m	0.08	ppbv	
36) Benzene	7.05	78	107408	0.36	ppbv	98
38) Trichloroethene	8.00	130	81939m	0.73	ppbv	
44) 2,2,4-Trimethylpentane	8.04	57	87004	0.15	ppbv #	66
51) 2-Hexanone	10.32	43	570197	2.54	ppbv #	99
52) Tetrachloroethene	11.42	164	8385m	0.09	ppbv	
53) Toluene	10.00	91	139343m	0.45	ppbv	
58) Ethyl Benzene	12.91	91	54823m	0.14	ppbv	
59) m/p-Xylene	13.17	91	109959m	0.31	ppbv	
60) o-Xylene	13.89	91	51509m	0.15	ppbv	
74) 1,2,4-Trimethylbenzene	16.97	105	84792	0.20	ppbv #	75

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

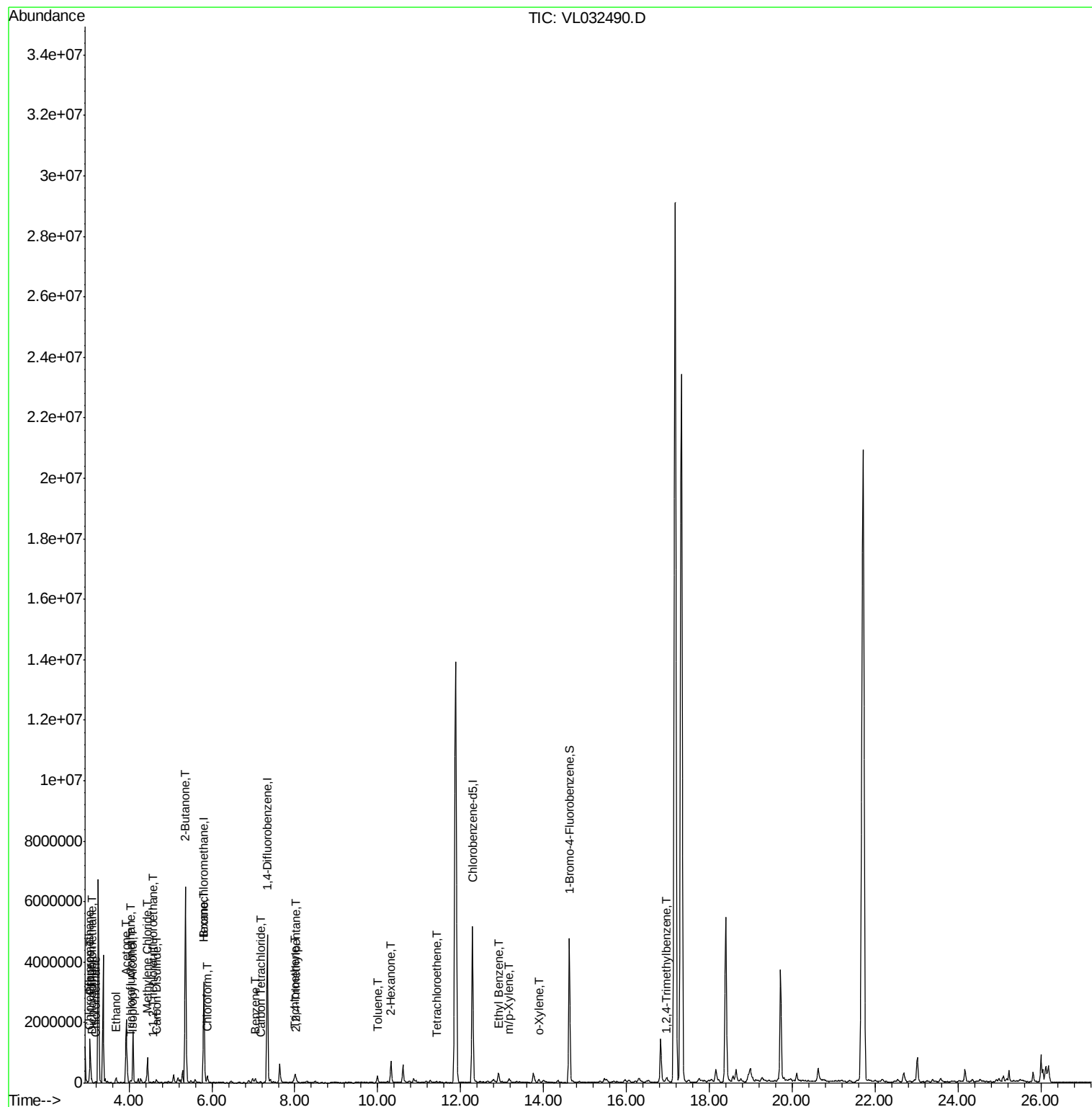
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL091018\
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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.80 min Scan# 891

Delta R.T. -0.01 min

Lab File: VL032490.D

Acq: 10 Sep 2018 22:43

Instrument :

MSVOA_L

ClientSampleId :

243-BERRY

Tot Ion: 49 Resp: 145555

Ion Ratio Lower Upper

49 100

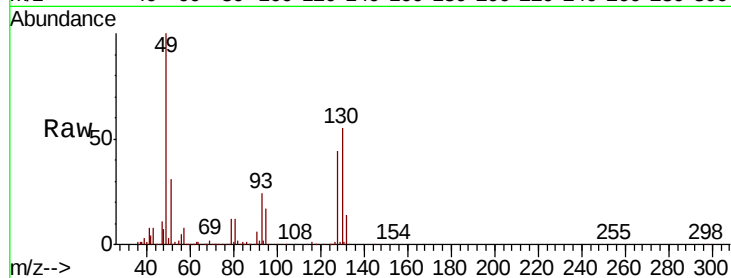
128 43.3 20.7 62.1

130 54.5 26.6 79.7

Manual Integrations
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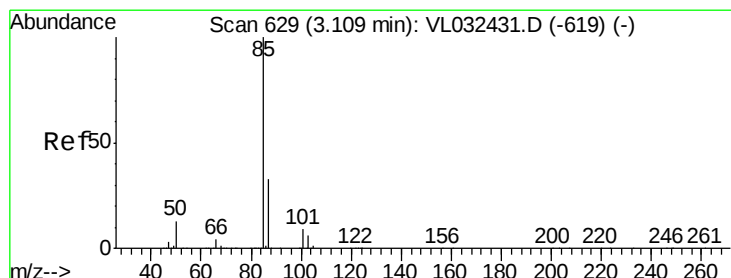
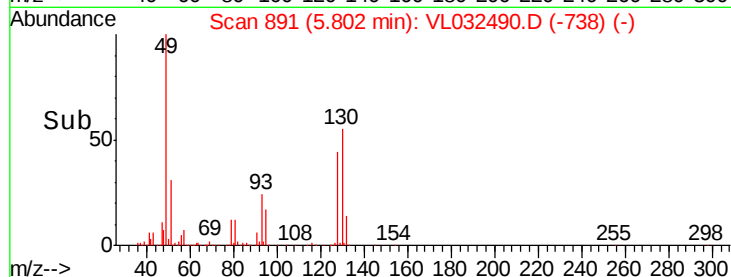
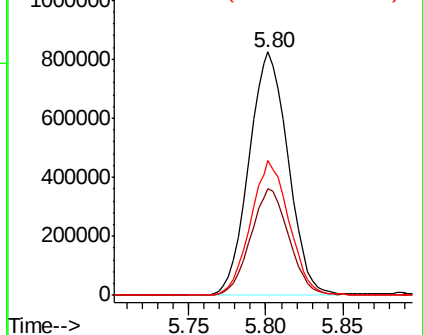
9/12/2018 3:59:40 PM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.48 ppbv

RT: 3.10 min Scan# 52

Delta R.T. -0.01 min

Lab File: VL032490.D

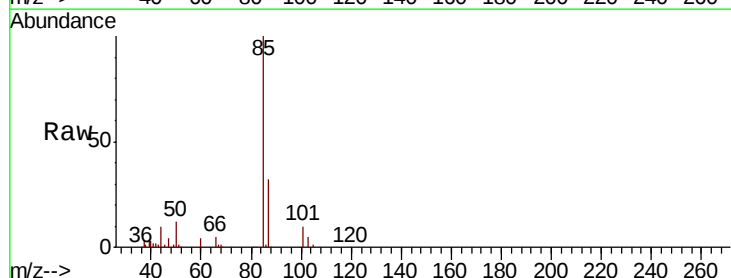
Acq: 10 Sep 2018 22:43

Tgt Ion: 85 Resp: 89451

Ion Ratio Lower Upper

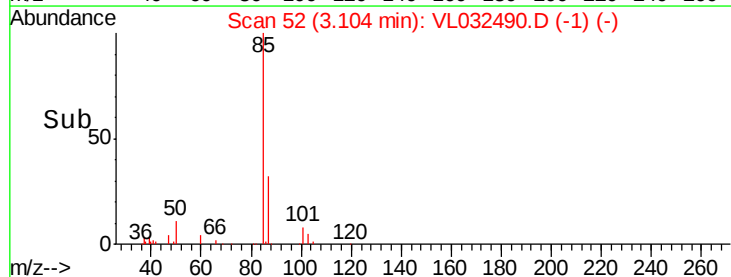
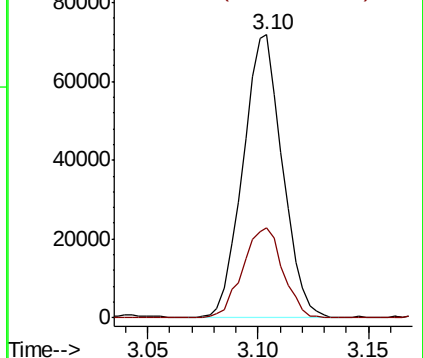
85 100

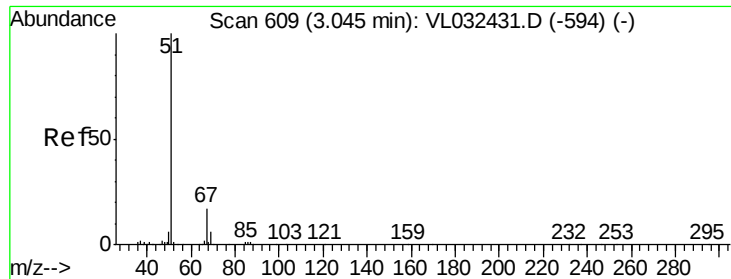
87 31.9 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.42 ppbv m

RT: 3.04 min Scan# 31

Delta R.T. -0.01 min

Lab File: VL032490.D

Acq: 10 Sep 2018 22:43

Tot Ion: 51 Resp: 55398

Ion Ratio Lower Upper

51 100

67 15.9 13.8 20.8

Instrument :

MSVOA_L

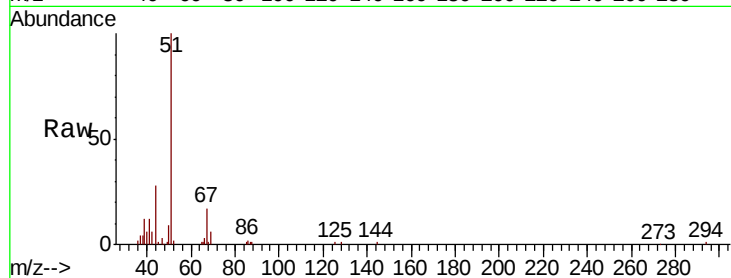
ClientSampleId :

243-BERRY

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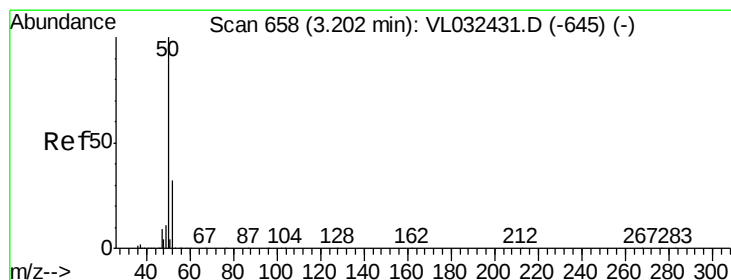
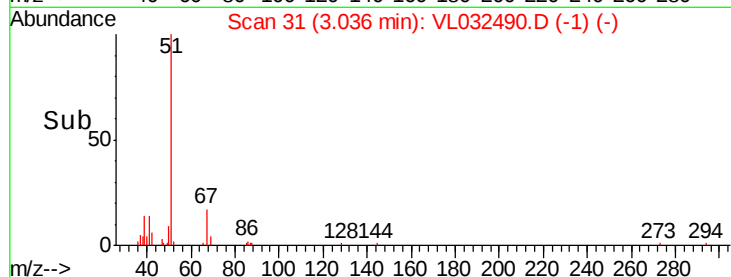
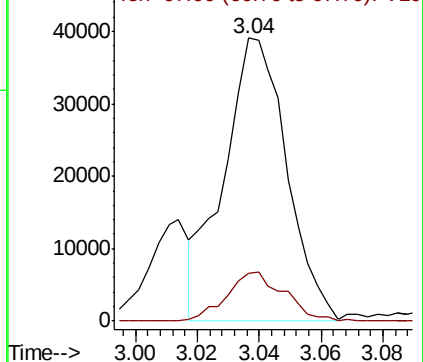
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.53 ppbv

RT: 3.20 min Scan# 82

Delta R.T. -0.00 min

Lab File: VL032490.D

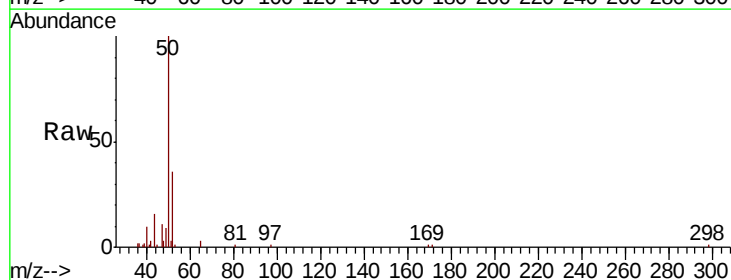
Acq: 10 Sep 2018 22:43

Tgt Ion: 50 Resp: 42006

Ion Ratio Lower Upper

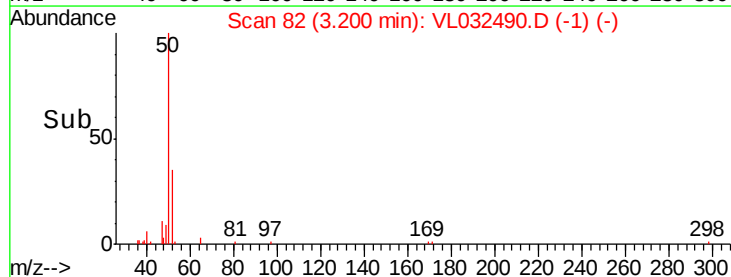
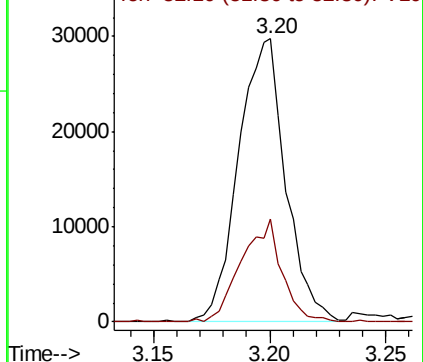
50 100

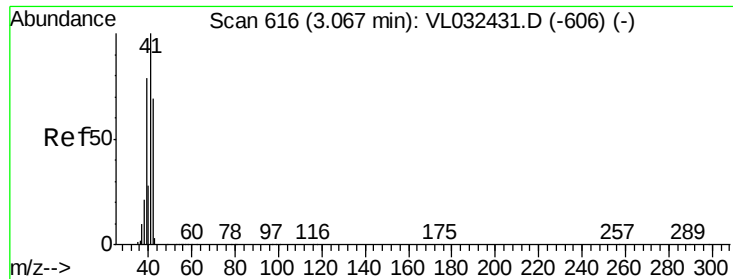
52 36.3 25.6 38.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 10.02 ppbv

RT: 3.06 min Scan# 39

Delta R.T. -0.01 min

Lab File: VL032490.D

Acq: 10 Sep 2018 22:43

Instrument :

MSVOA_L

ClientSampleId :

243-BERRY

Tot Ion: 41 Resp: 532523

Ion Ratio Lower Upper

41 100

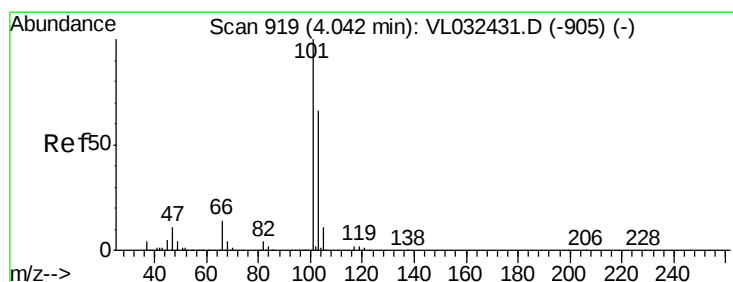
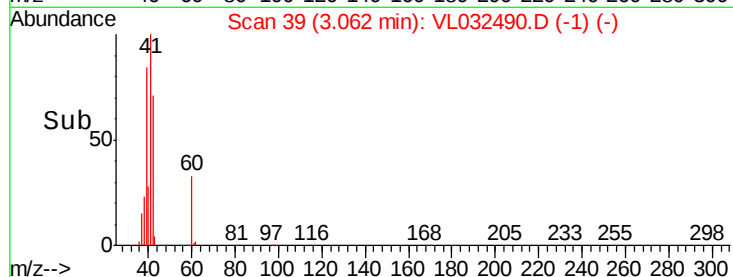
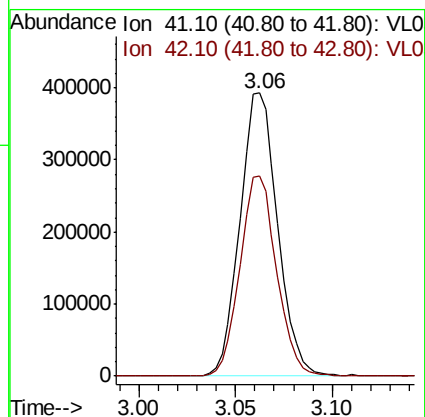
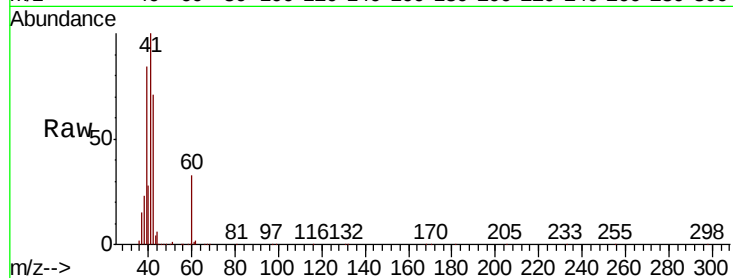
42 69.3 56.6 84.8

Manual Integrations

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#11

Trichlorofluoromethane

Concen: 0.24 ppbv

RT: 4.03 min Scan# 341

Delta R.T. -0.01 min

Lab File: VL032490.D

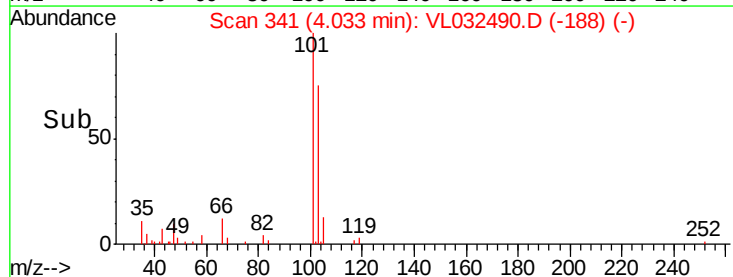
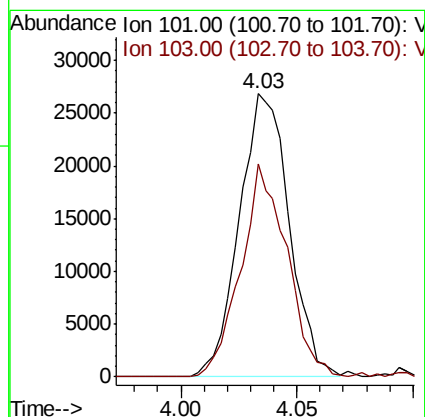
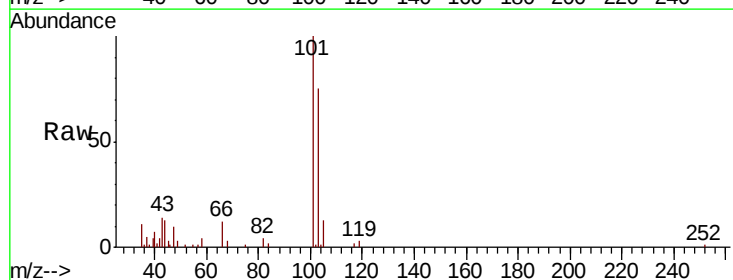
Acq: 10 Sep 2018 22:43

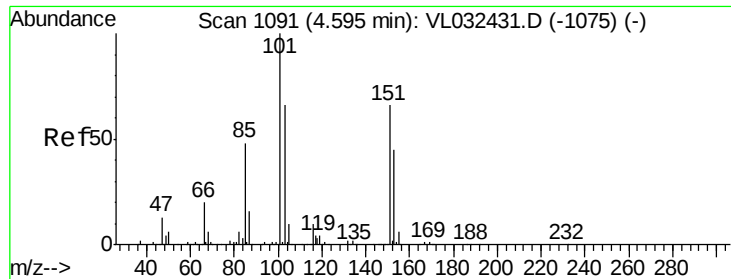
Tgt Ion: 101 Resp: 40031

Ion Ratio Lower Upper

101 100

103 75.2 52.8 79.2





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.12 ppbv m

RT: 4.58 min Scan# 512

Delta R.T. -0.01 min

Lab File: VL032490.D

Acq: 10 Sep 2018 22:43

Instrument :

MSVOA_L

ClientSampleId :

243-BERRY

Tot Ion:101 Resp: 13083

Ion Ratio Lower Upper

101 100

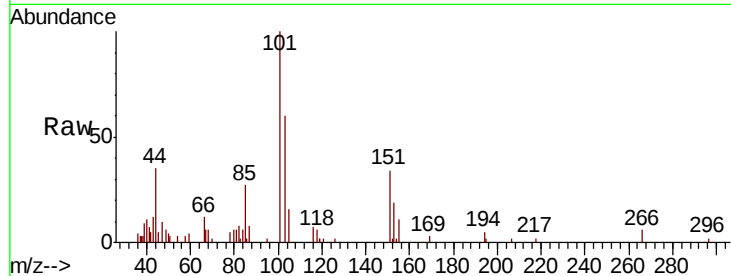
151 61.2 52.6 78.8

Manual Integrations

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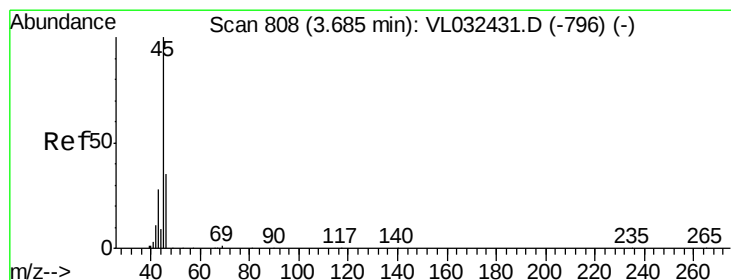
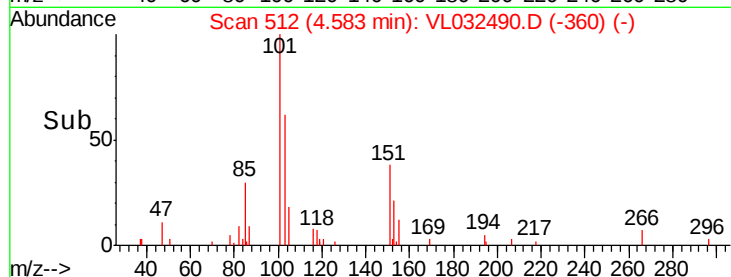
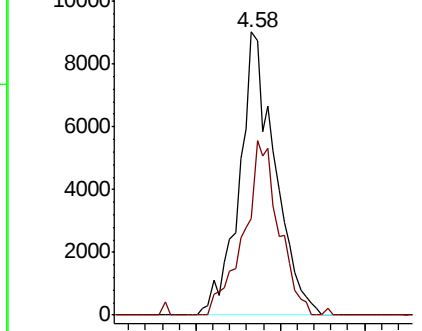
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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 12.42 ppbv

RT: 3.69 min Scan# 233

Delta R.T. 0.00 min

Lab File: VL032490.D

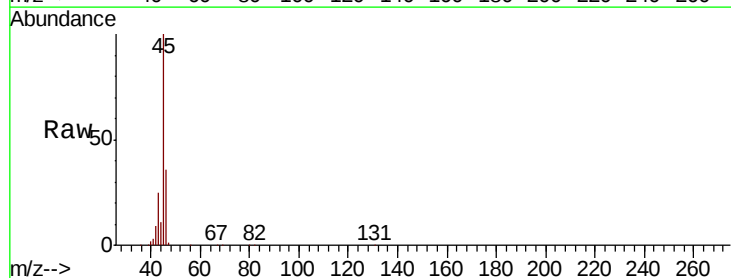
Acq: 10 Sep 2018 22:43

Tgt Ion: 45 Resp: 205818

Ion Ratio Lower Upper

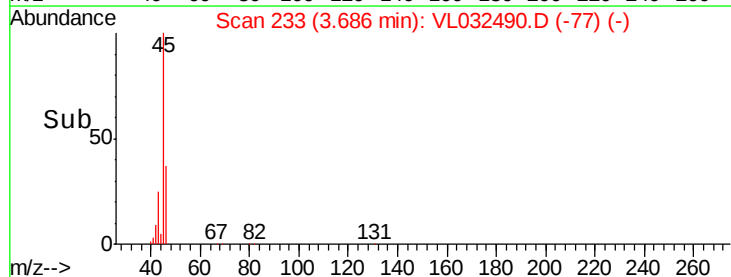
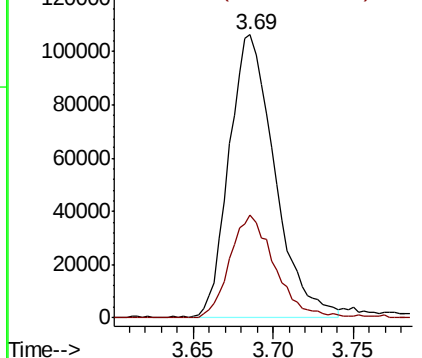
45 100

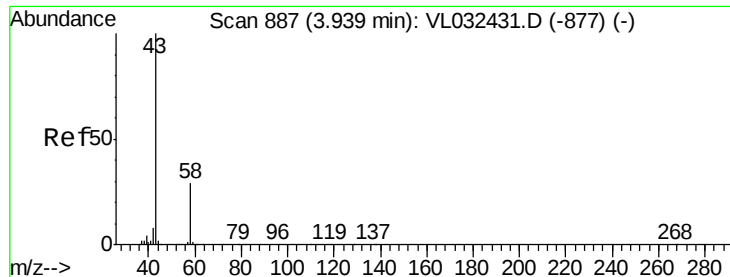
46 36.7 14.2 56.8



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





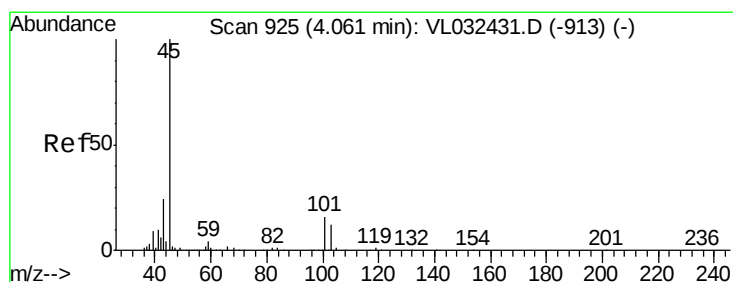
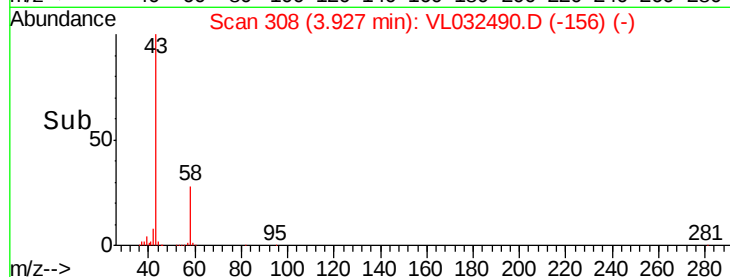
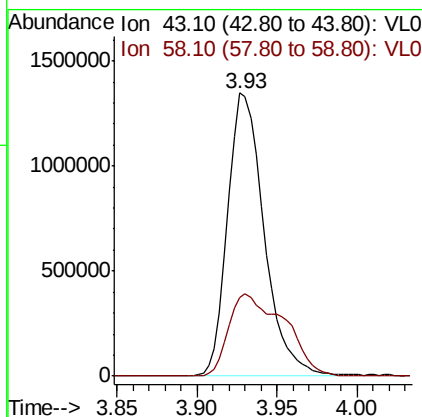
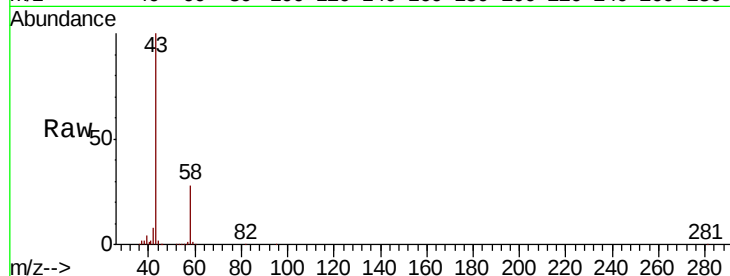
#15
Acetone
Concen: 15.85 ppbv
RT: 3.93 min Scan# 308
Delta R.T. -0.01 min
Lab File: VL032490.D
Acq: 10 Sep 2018 22:43

Instrument :
MSVOA_L
ClientSampleId :
243-BERRY

Tot Ion: 43 Resp: 2077987
Ion Ratio Lower Upper
43 100
58 45.4 22.6 33.8#

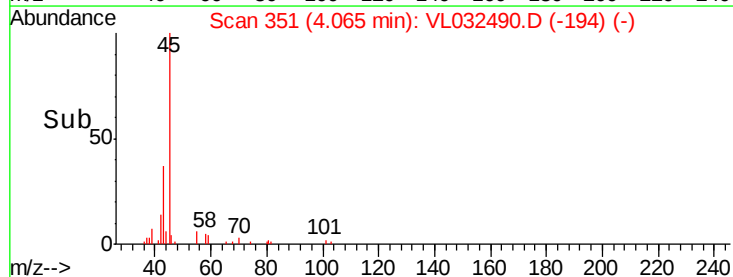
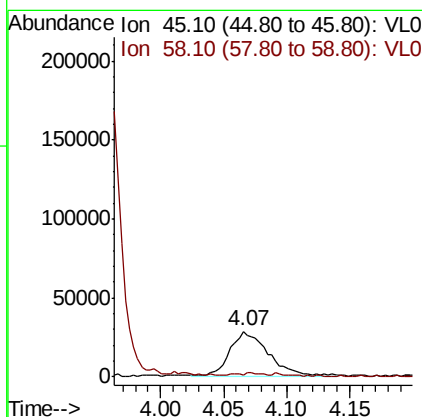
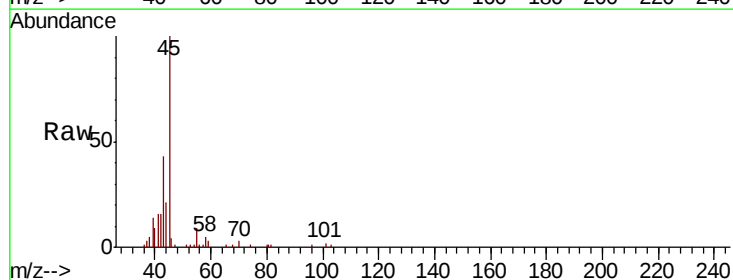
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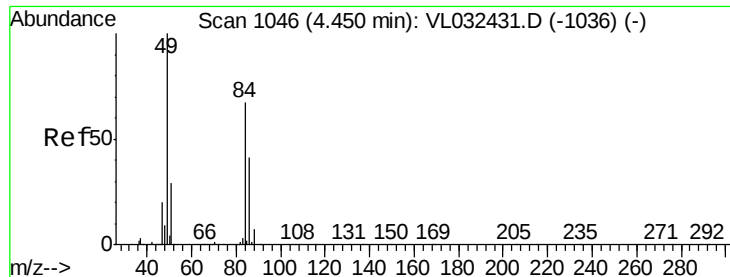
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#19
Isopropyl Alcohol
Concen: 0.74 ppbv m
RT: 4.07 min Scan# 351
Delta R.T. 0.00 min
Lab File: VL032490.D
Acq: 10 Sep 2018 22:43

Tgt Ion: 45 Resp: 63524
Ion Ratio Lower Upper
45 100
58 0.0 2.0 3.0#





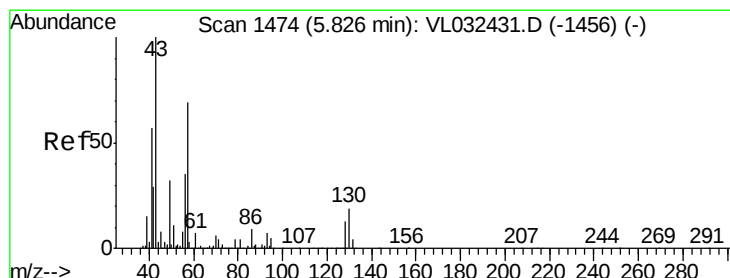
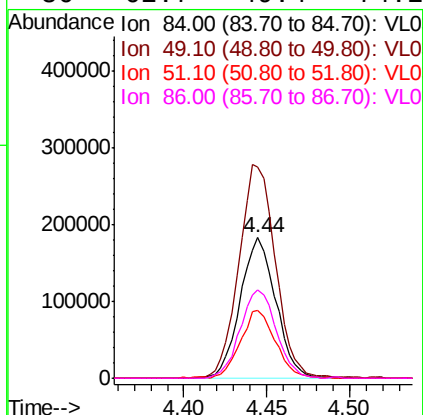
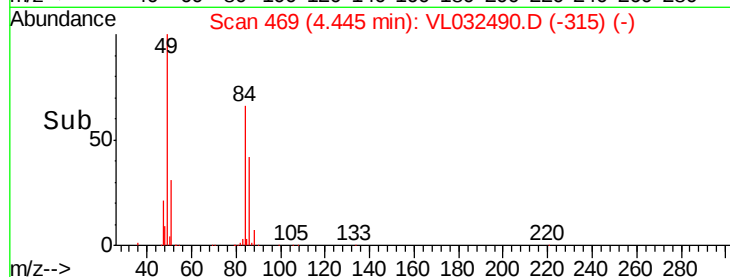
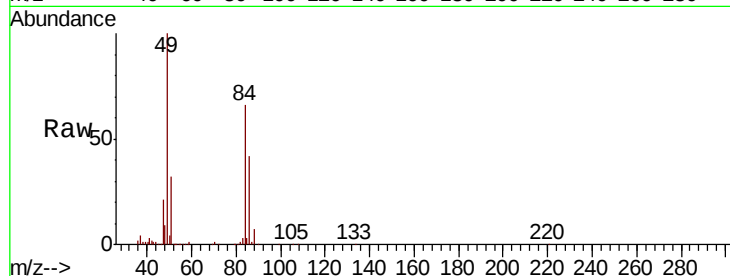
#20
Methvlene Chloride
Concen: 5.48 ppbv
RT: 4.44 min Scan# 469
Delta R.T. -0.01 min
Lab File: VL032490.D
Acq: 10 Sep 2018 22:43

Instrument :
MSVOA_L
ClientSampleId :
243-BERRY

Tot Ion:	84	Resp:	273770
Ion	Ratio	Lower	Upper
84	100		
49	150.1	119.1	178.7
51	47.8	35.2	52.8
86	62.7	49.4	74.2

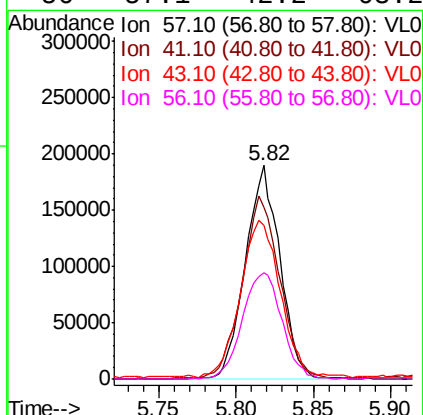
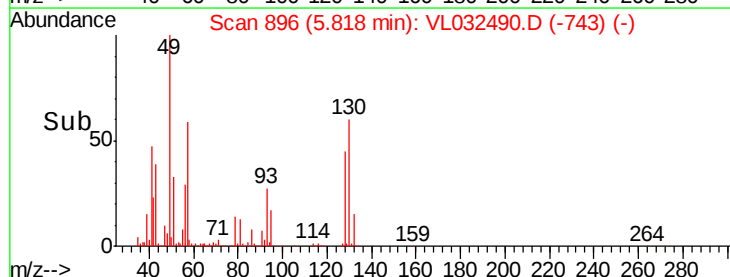
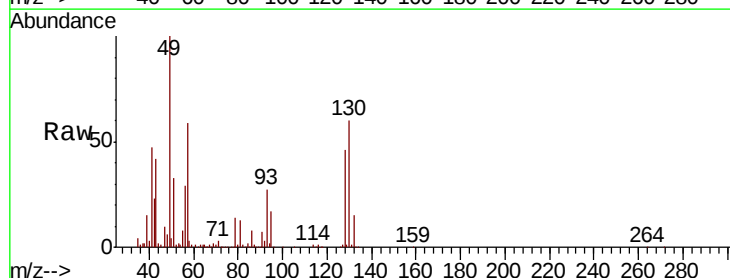
Manual Integrations
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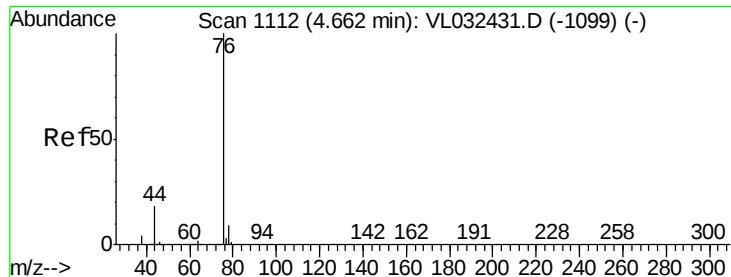
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#26
Hexane
Concen: 2.13 ppbv
RT: 5.82 min Scan# 896
Delta R.T. -0.01 min
Lab File: VL032490.D
Acq: 10 Sep 2018 22:43

Tgt Ion:	57	Resp:	294967
Ion	Ratio	Lower	Upper
57	100		
41	93.9	69.0	103.4
43	84.7	172.1	258.1#
56	57.1	42.2	63.2





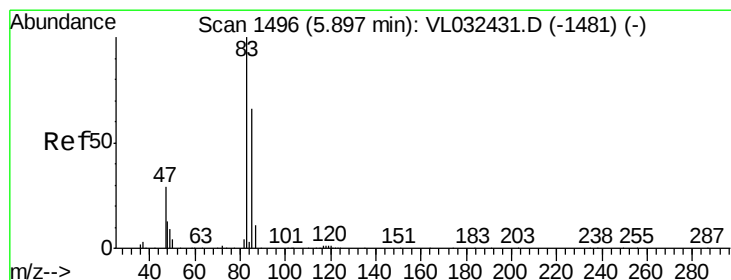
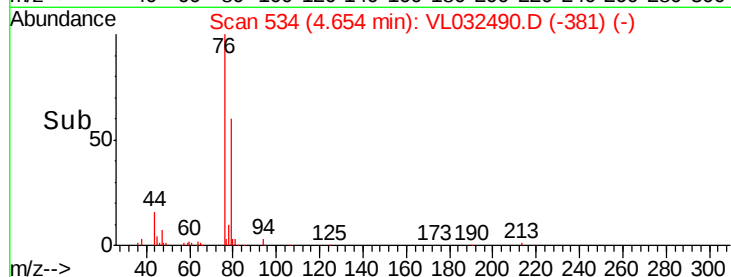
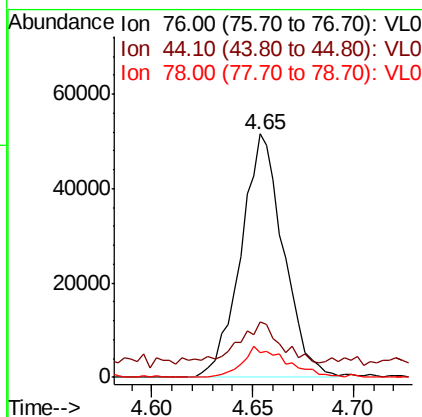
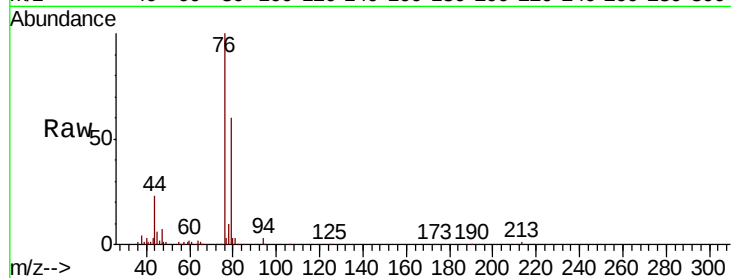
#27
Carbon Disulfide
Concen: 0.59 ppbv
RT: 4.65 min Scan# 534
Delta R.T. -0.01 min
Lab File: VL032490.D
Acq: 10 Sep 2018 22:43

Instrument :
MSVOA_L
ClientSampleId :
243-BERRY

Tot Ion	Ratio	Lower	Upper
76	100		
44	27.6	14.0	21.0#
78	13.3	7.5	11.3#

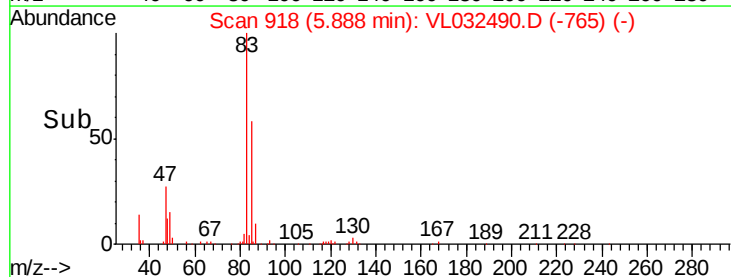
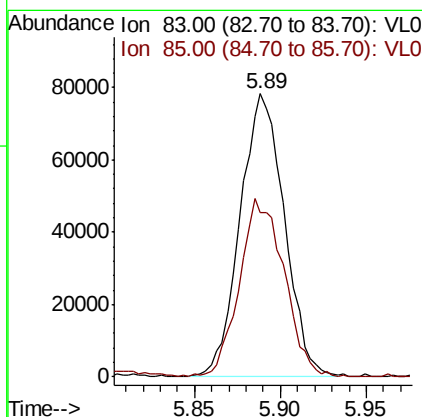
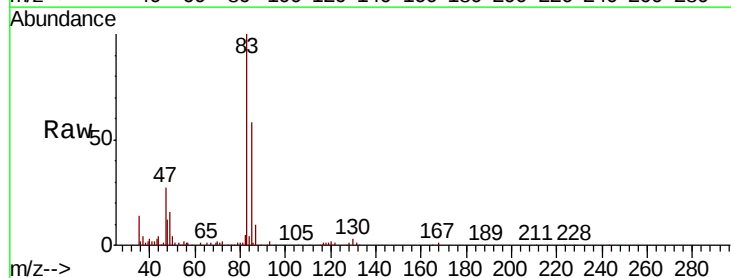
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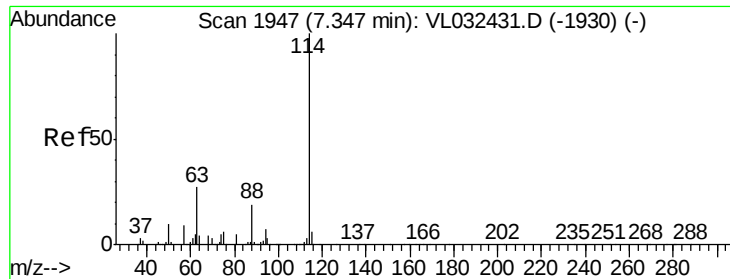
MMDadoda
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#29
Chloroform
Concen: 0.66 ppbv
RT: 5.89 min Scan# 918
Delta R.T. -0.01 min
Lab File: VL032490.D
Acq: 10 Sep 2018 22:43

Tgt Ion	Ratio	Lower	Upper
83	100		
85	58.2	52.5	78.7





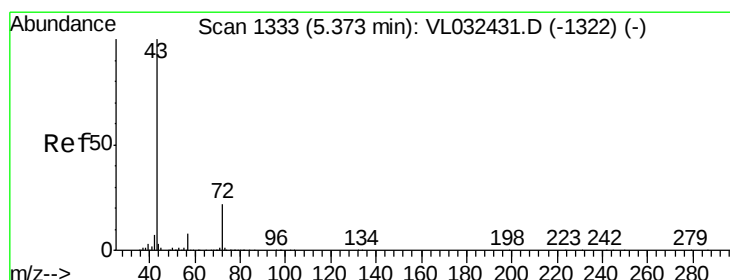
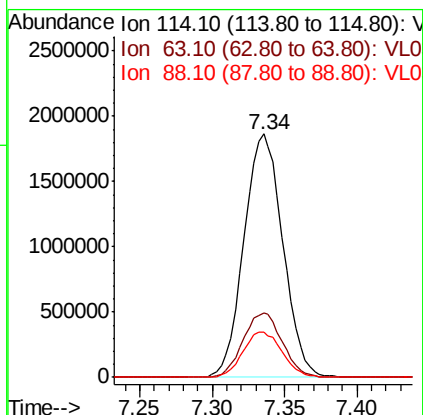
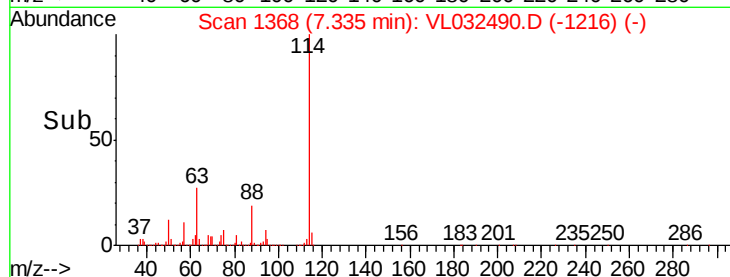
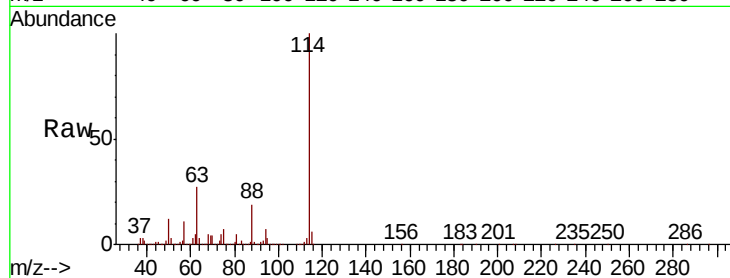
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.34 min Scan# 1368
 Delta R.T. -0.01 min
 Lab File: VL032490.D
 Acq: 10 Sep 2018 22:43

Instrument :
 MSVOA_L
 ClientSampleId :
 243-BERRY

Tot Ion	Ratio	Lower	Upper
114	100		
63	26.7	22.2	33.4
88	18.8	15.0	22.4

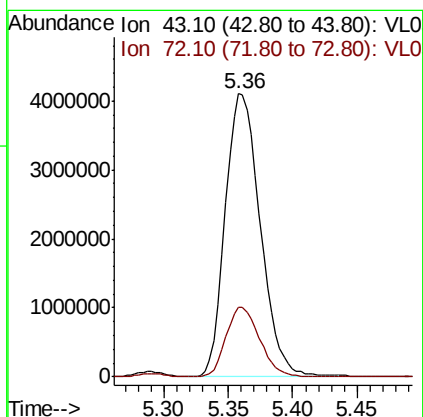
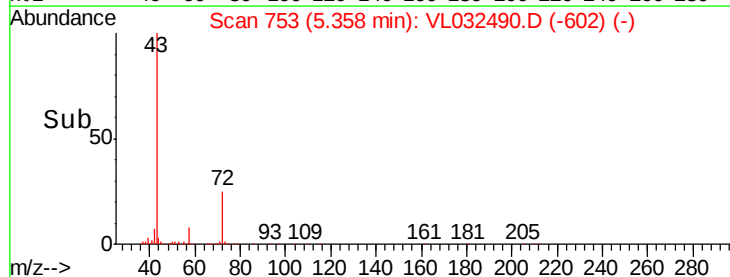
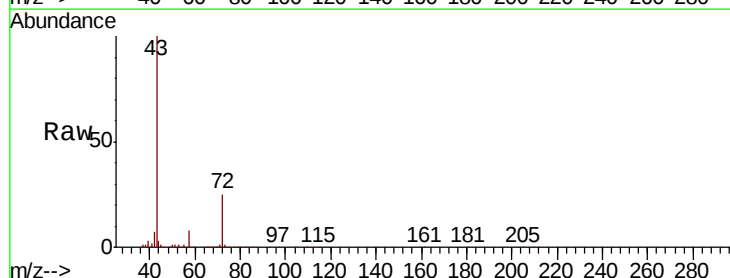
Manual Integrations
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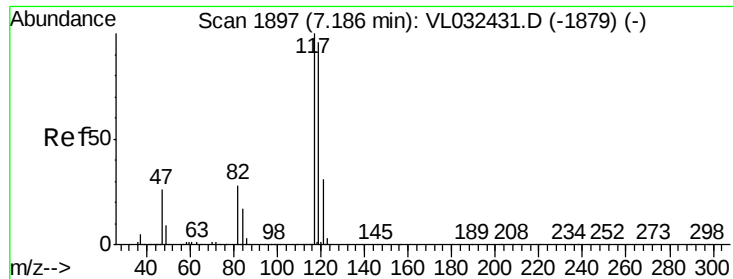
MMDadoda
 9/12/2018 3:59:40 PM



#34
 2-Butanone
 Concen: 33.45 ppbv
 RT: 5.36 min Scan# 753
 Delta R.T. -0.01 min
 Lab File: VL032490.D
 Acq: 10 Sep 2018 22:43

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.9	17.8	26.6





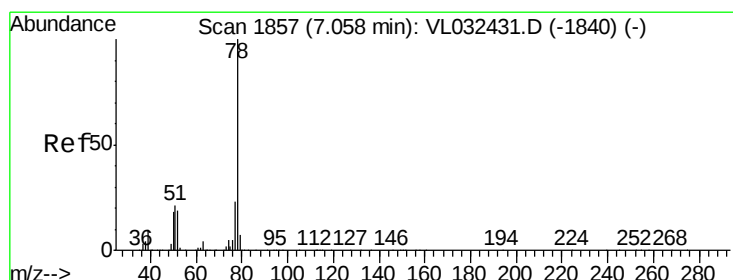
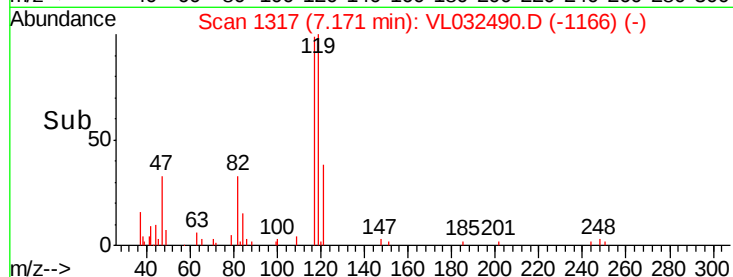
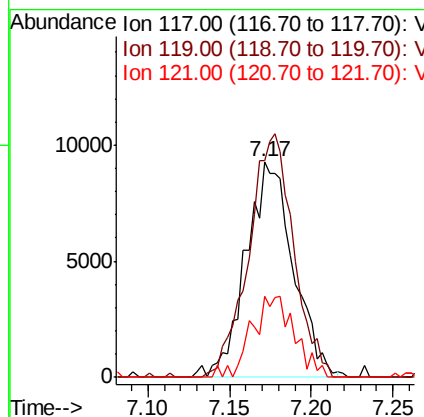
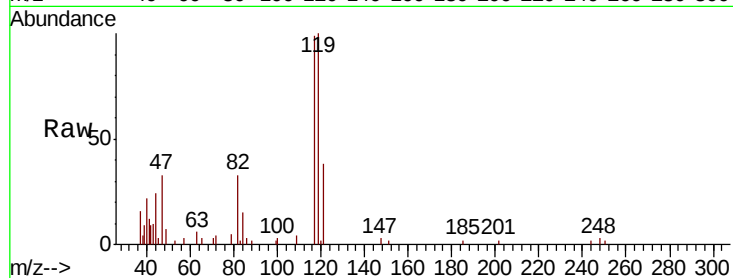
#35
Carbon Tetrachloride
Concen: 0.08 ppbv m
RT: 7.17 min Scan# 1317
Delta R.T. -0.01 min
Lab File: VL032490.D
Acq: 10 Sep 2018 22:43

Instrument :
MSVOA_L
ClientSampled :
243-BERRY

Tot Ion	Ratio	Resp	Lower	Upper
117	100	18698		
119	100.8	76.6	115.0	
121	37.9	24.6	36.8#	

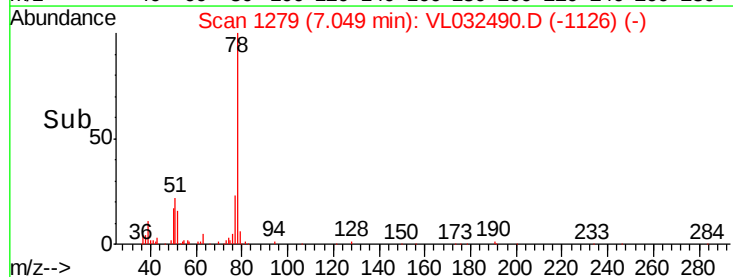
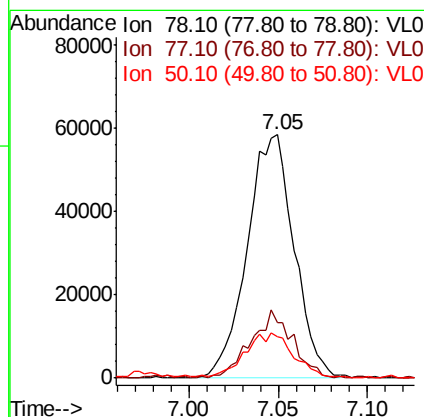
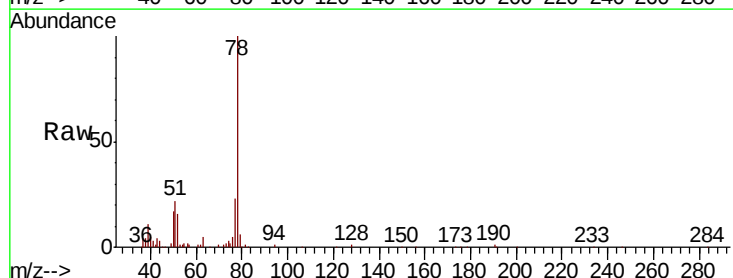
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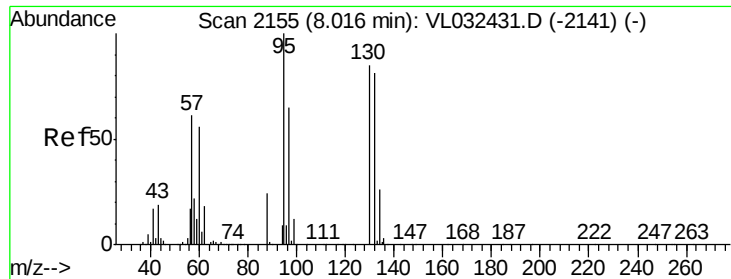
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#36
Benzene
Concen: 0.36 ppbv
RT: 7.05 min Scan# 1279
Delta R.T. -0.01 min
Lab File: VL032490.D
Acq: 10 Sep 2018 22:43

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	107408		
77	23.0	18.4	27.6	
50	16.0	14.4	21.6	





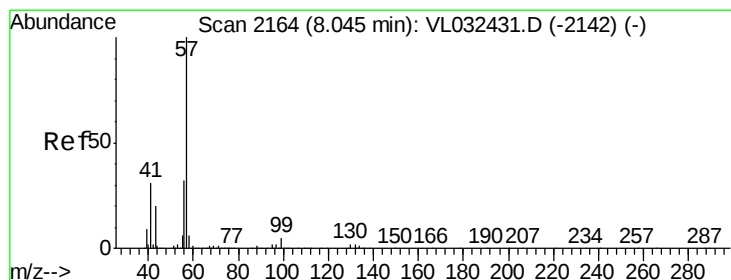
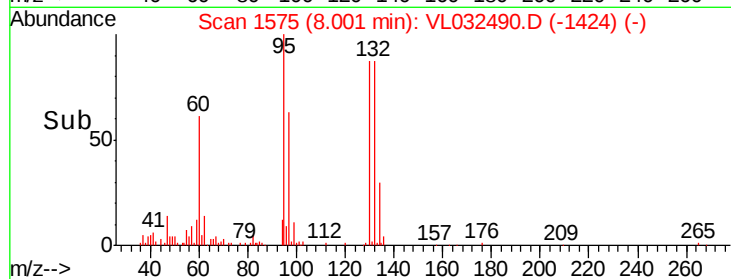
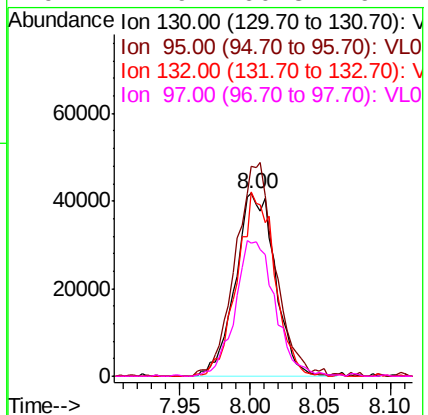
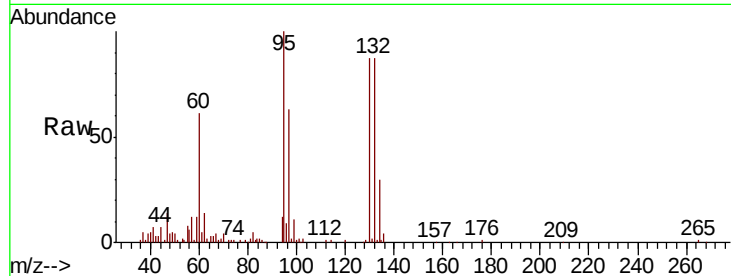
#38
 Trichloroethene
 Concen: 0.73 ppbv m
 RT: 8.00 min Scan# 1575
 Delta R.T. -0.01 min
 Lab File: VL032490.D
 Acq: 10 Sep 2018 22:43

Instrument :
 MSVOA_L
 ClientSampleId :
 243-BERRY

Tot Ion	Ratio	Lower	Upper
130	100		
95	115.0	94.2	141.4
132	100.5	76.2	114.4
97	72.9	60.8	91.2

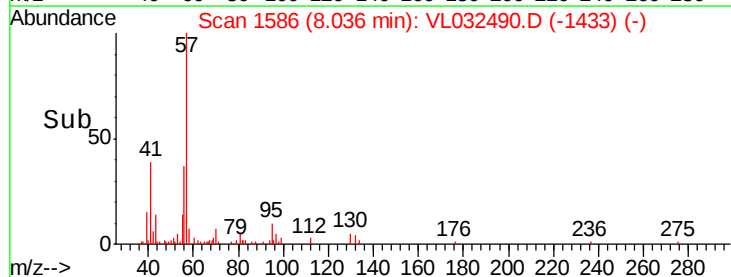
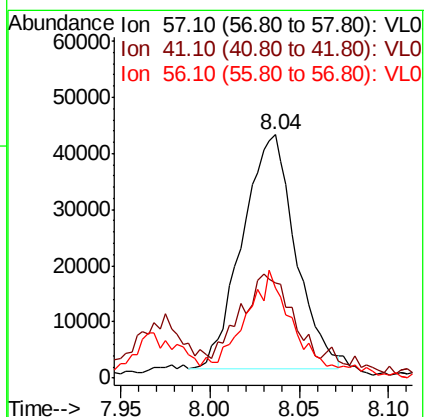
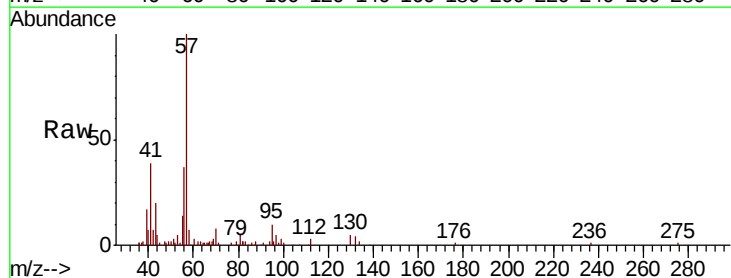
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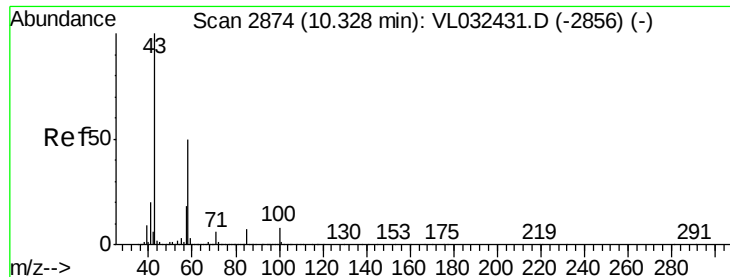
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#44
 2,2,4-Trimethylpentane
 Concen: 0.15 ppbv
 RT: 8.04 min Scan# 1586
 Delta R.T. -0.01 min
 Lab File: VL032490.D
 Acq: 10 Sep 2018 22:43

Tgt Ion	Ratio	Lower	Upper
57	100		
41	53.1	24.4	36.6#
56	46.7	25.7	38.5#





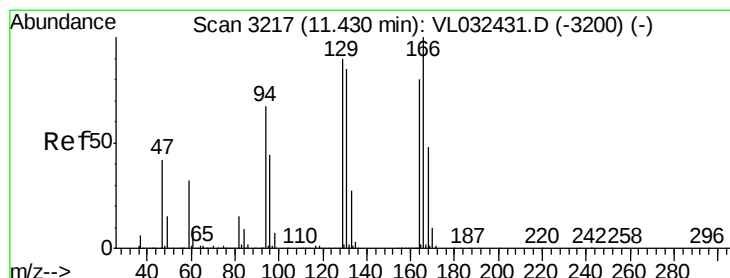
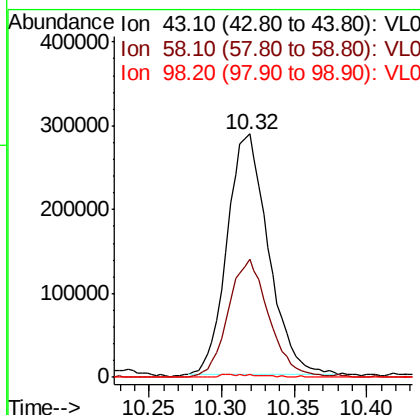
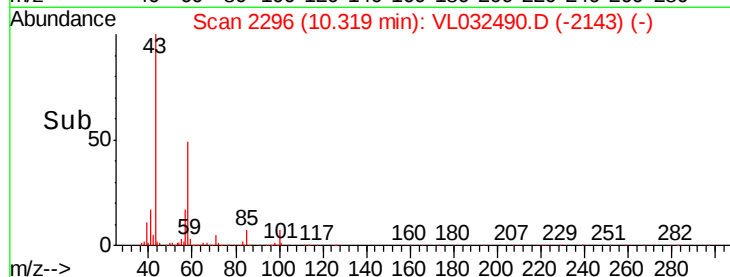
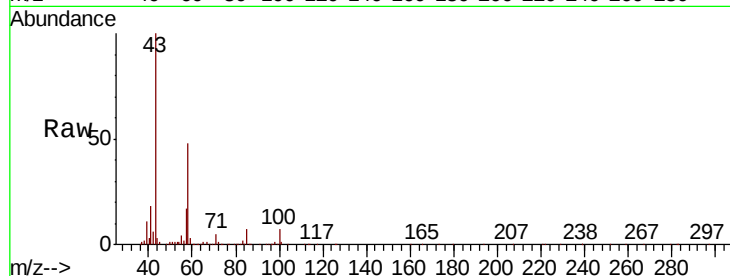
#51
2-Hexanone
Concen: 2.54 ppbv
RT: 10.32 min Scan# 2296
Delta R.T. -0.01 min
Lab File: VL032490.D
Acq: 10 Sep 2018 22:43

Instrument :
MSVOA_L
ClientSampleId :
243-BERRY

Tot Ion	Ratio	Lower	Upper
43	100		
58	48.6	39.2	58.8
98	1.5	0.4	0.6

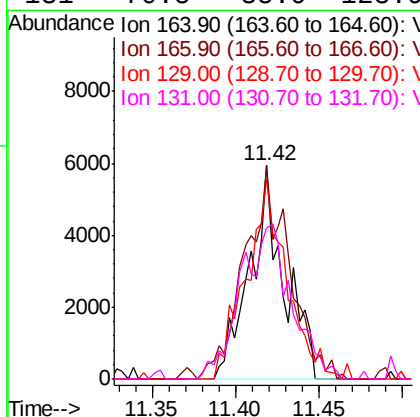
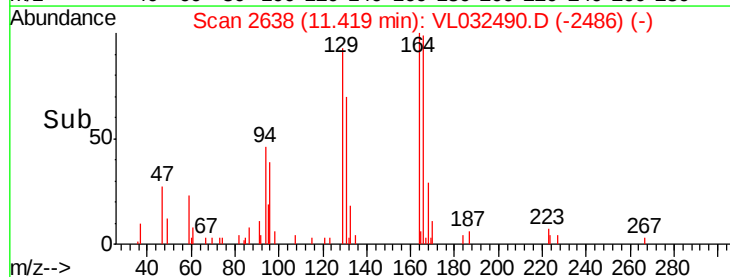
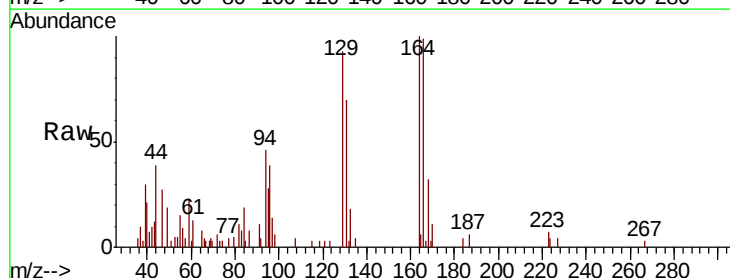
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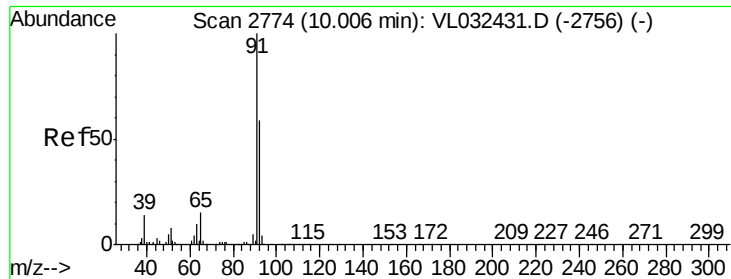
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#52
Tetrachloroethene
Concen: 0.09 ppbv m
RT: 11.42 min Scan# 2638
Delta R.T. -0.01 min
Lab File: VL032490.D
Acq: 10 Sep 2018 22:43

Tgt Ion	Ratio	Lower	Upper
164	100		
166	99.3	100.6	150.8
129	93.4	89.9	134.9
131	70.5	85.9	128.9





#53

Toluene

Concen: 0.45 ppbv m

RT: 10.00 min Scan# 2196

Delta R.T. -0.01 min

Lab File: VL032490.D

Acq: 10 Sep 2018 22:43

Instrument :

MSVOA_L

ClientSampleId :

243-BERRY

Tot Ion: 91 Resp: 139343

Ion Ratio Lower Upper

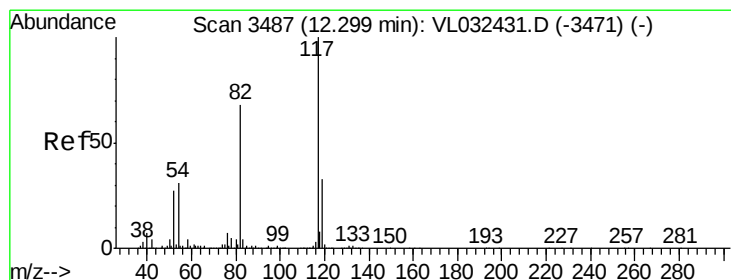
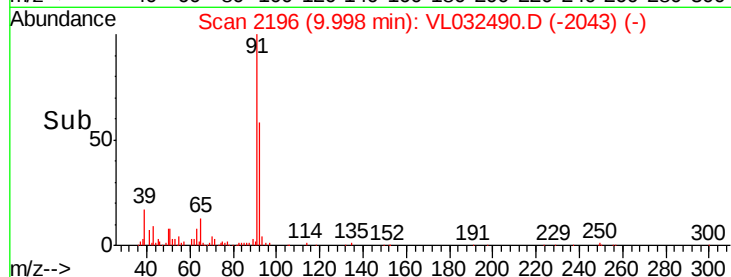
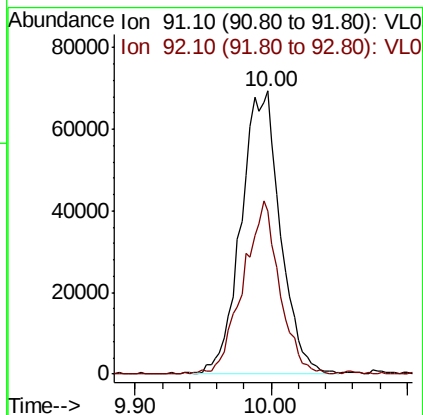
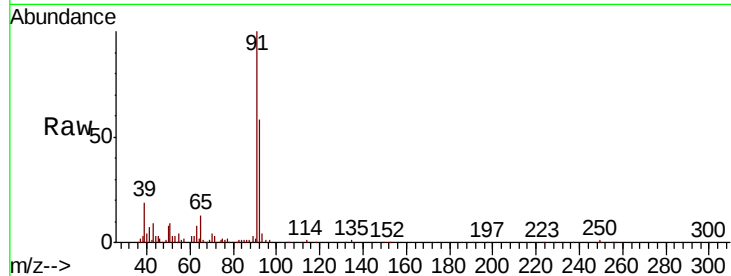
91 100

92 0.0 48.1 72.1#

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#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.28 min Scan# 2907

Delta R.T. -0.01 min

Lab File: VL032490.D

Acq: 10 Sep 2018 22:43

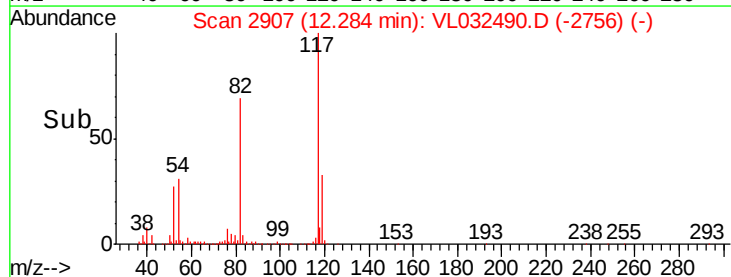
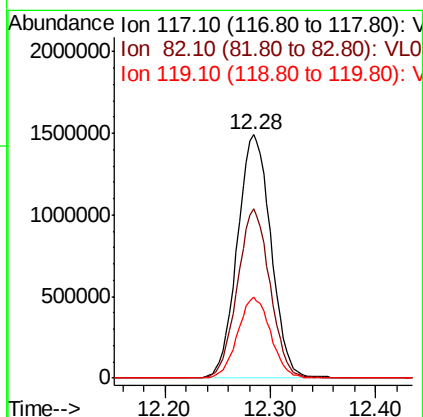
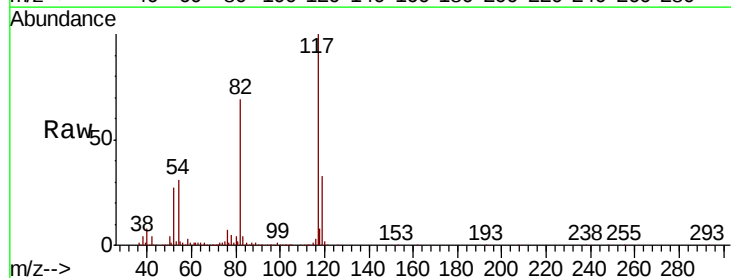
Tgt Ion: 117 Resp: 3303228

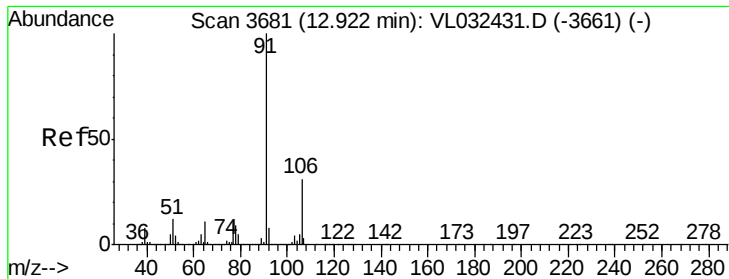
Ion Ratio Lower Upper

117 100

82 67.9 53.0 79.6

119 32.6 45.9 68.9#





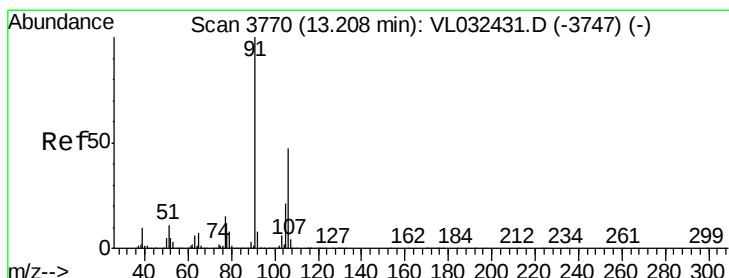
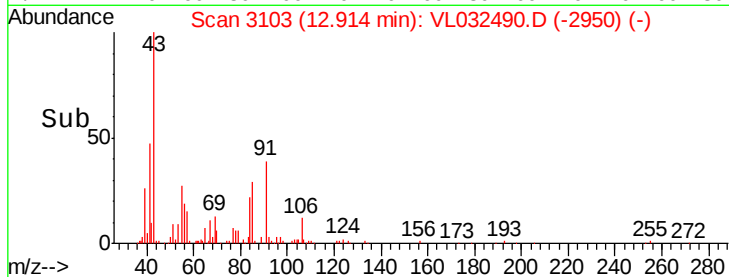
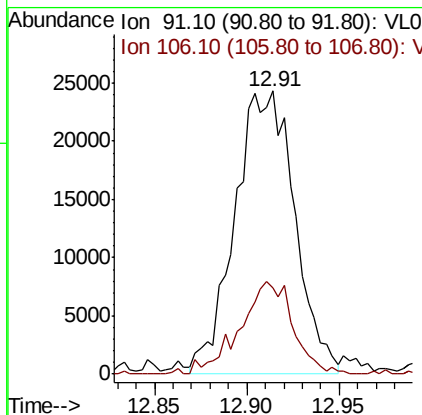
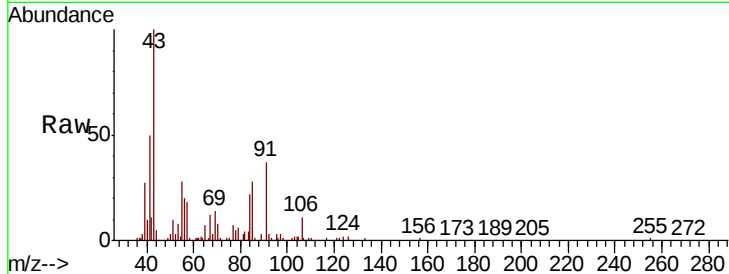
#58
Ethyl Benzene
Concen: 0.14 ppbv m
RT: 12.91 min Scan# 3103
Delta R.T. -0.01 min
Lab File: VL032490.D
Acq: 10 Sep 2018 22:43

Instrument :
MSVOA_L
ClientSampleId :
243-BERRY

Tot Ion: 91 Resp: 54823
Ion Ratio Lower Upper
91 100
106 30.5 24.8 37.2

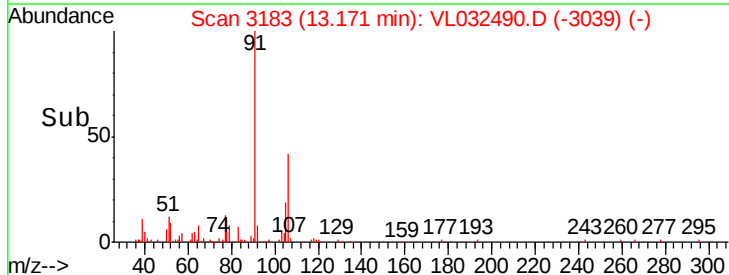
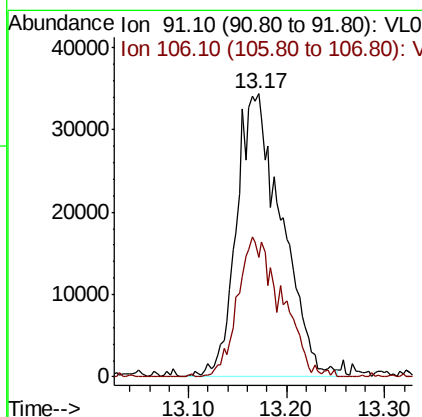
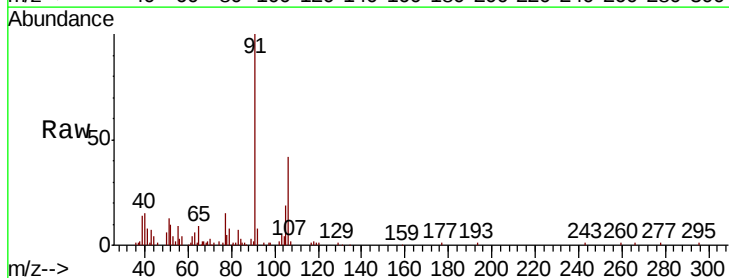
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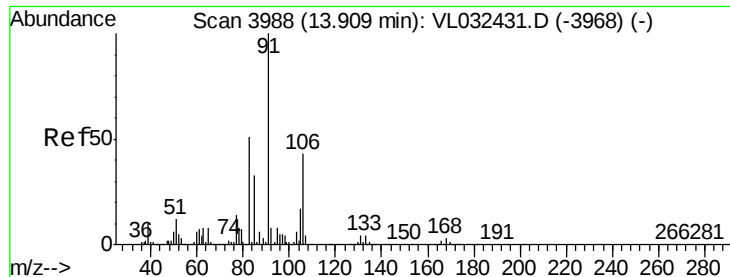
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#59
m/p-Xylene
Concen: 0.31 ppbv m
RT: 13.17 min Scan# 3183
Delta R.T. -0.04 min
Lab File: VL032490.D
Acq: 10 Sep 2018 22:43

Tgt Ion: 91 Resp: 109959
Ion Ratio Lower Upper
91 100
106 0.0 36.6 55.0#





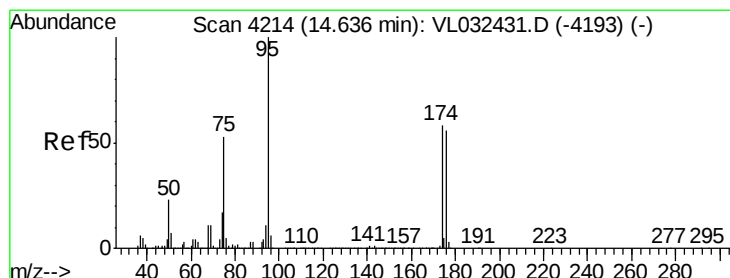
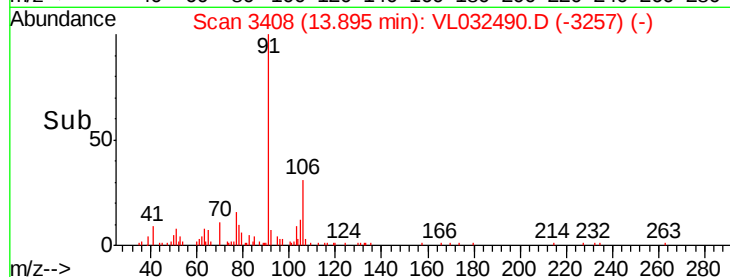
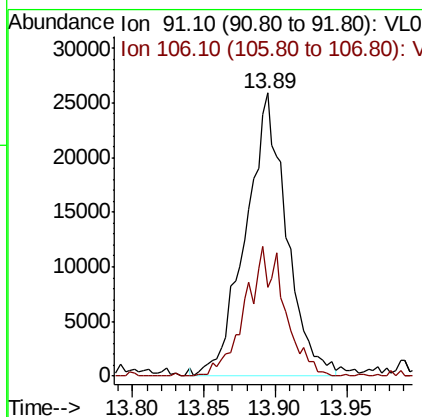
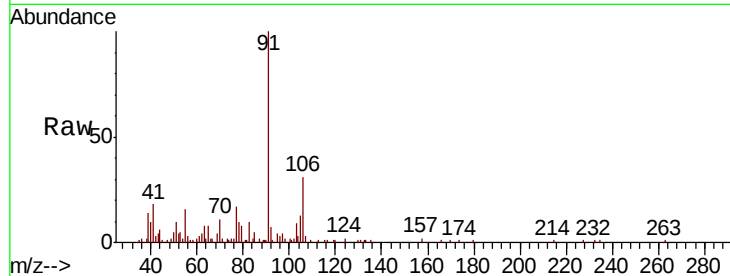
#60
o-Xylene
Concen: 0.15 ppbv m
RT: 13.89 min Scan# 3408
Delta R.T. -0.01 min
Lab File: VL032490.D
Acq: 10 Sep 2018 22:43

Instrument :
MSVOA_L
ClientSampleId :
243-BERRY

Tot Ion: 91 Resp: 51509
Ion Ratio Lower Upper
91 100
106 44.1 21.9 65.7

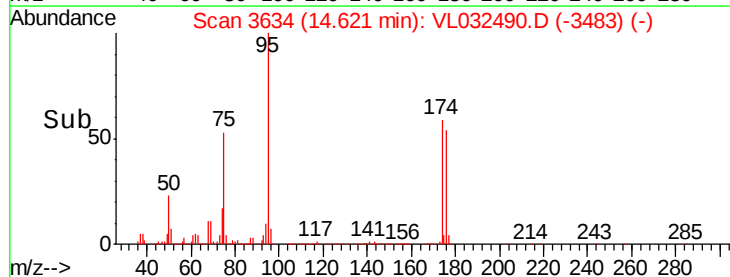
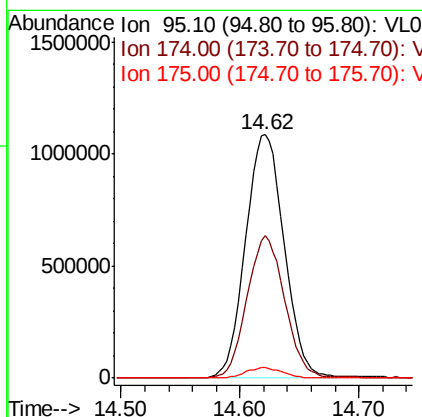
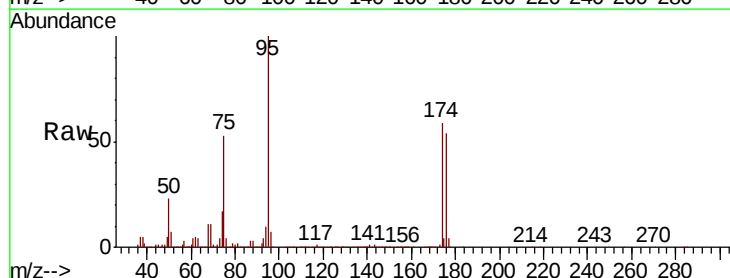
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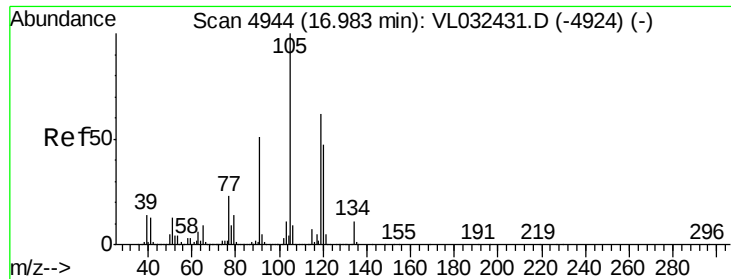
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#68
1-Bromo-4-Fluorobenzene
Concen: 9.95 ppbv
RT: 14.62 min Scan# 3634
Delta R.T. -0.01 min
Lab File: VL032490.D
Acq: 10 Sep 2018 22:43

Tgt Ion: 95 Resp: 2440183
Ion Ratio Lower Upper
95 100
174 57.8 46.3 69.5
175 4.2 3.4 5.0





#74
 1,2,4-Trimethylbenzene
 Concen: 0.20 ppbv
 RT: 16.97 min Scan# 4363
 Delta R.T. -0.02 min
 Lab File: VL032490.D
 Acq: 10 Sep 2018 22:43

Instrument :
 MSVOA_L
 ClientSampleId :
 243-BERRY

Tot Ion:	105	Resp:	84792
Ion Ratio	Lower	Upper	
105	100		
120	47.9	37.8	56.8
91	13.5	41.4	62.0#
77	18.5	18.6	28.0#

Manual Integrations
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