

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091018\
 Data File : VL032494.D
 Acq On : 11 Sep 2018 1:22
 Operator : SY/AP
 Sample : J4820-05
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 249-BERRY

Manual Integrations
 APPROVED

MMDadoda
 9/12/2018 3:59:44 PM

Quant Time: Sep 11 16:10:28 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	5.83	49	1392617	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.36	114	3270027	10.00	ppbv	0.01
55) Chlorobenzene-d5	12.30	117	3103131	10.00	ppbv	0.00

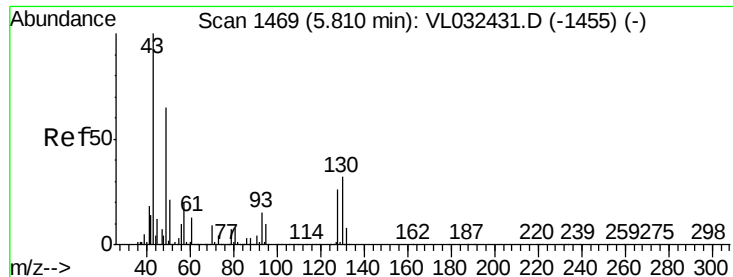
System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.63	95	2461772	10.69	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.90%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.10	85	110873	0.62	ppbv	97
3) Chlorodifluoromethane	3.04	51	84462m	0.67	ppbv	
4) Chloromethane	3.19	50	89286	1.17	ppbv	93
7) Chloroethane	3.63	64	8195	0.31	ppbv #	78
9) Propene	3.06	41	7857116	154.51	ppbv	100
10) Heptane	8.30	43	352053	1.93	ppbv	95
11) Trichlorofluoromethane	4.04	101	852541	5.31	ppbv	95
13) Ethanol	3.71	45	1463150	92.31	ppbv	97
15) Acetone	3.95	43	13107106m	104.52	ppbv	
20) Methylene Chloride	4.46	84	629785	13.17	ppbv	93
26) Hexane	5.82	57	974731	7.35	ppbv #	31
27) Carbon Disulfide	4.66	76	546116	4.46	ppbv #	93
29) Chloroform	5.92	83	4160334	20.58	ppbv	100
30) Cyclohexane	7.29	84	114271m	1.18	ppbv	
34) 2-Butanone	5.38	43	40020758m	184.25	ppbv	
36) Benzene	7.06	78	1551450	5.58	ppbv	97
38) Trichloroethene	8.02	130	20071m	0.19	ppbv	
42) Bromodichloromethane	7.99	83	323685	1.38	ppbv #	84
48) Dibromochloromethane	10.52	129	46804m	0.27	ppbv	
51) 2-Hexanone	10.32	43	19227785	91.23	ppbv #	89
52) Tetrachloroethene	11.43	164	114890m	1.33	ppbv	
53) Toluene	10.00	91	1366582	4.70	ppbv	100
58) Ethyl Benzene	12.92	91	436404	1.18	ppbv	92
59) m/p-Xylene	13.17	91	1531328	4.63	ppbv	98
60) o-Xylene	13.90	91	733804	2.26	ppbv	99
61) Styrene	13.74	104	786011	3.73	ppbv	98
62) Isopropylbenzene	14.88	105	709142	1.55	ppbv	99
69) p-Isopropyltoluene	17.87	119	188810	0.41	ppbv #	82
72) 4-Ethyltoluene	16.05	105	243079m	0.68	ppbv	
73) 1,3,5-Trimethylbenzene	16.21	105	263258	0.74	ppbv	95
74) 1,2,4-Trimethylbenzene	16.97	105	741573	1.91	ppbv #	71
79) Naphthalene	22.47	128	107397m	0.34	ppbv	

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



#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.83 min Scan# 899

Delta R.T. 0.02 min

Lab File: VL032494.D

Acq: 11 Sep 2018 1:22

Instrument :

MSVOA_L

ClientSampleId :

249-BERRY

Tot Ion: 49 Resp: 1392617

Ion Ratio Lower Upper

49 100

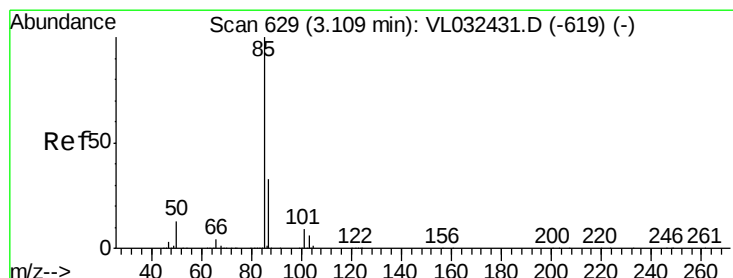
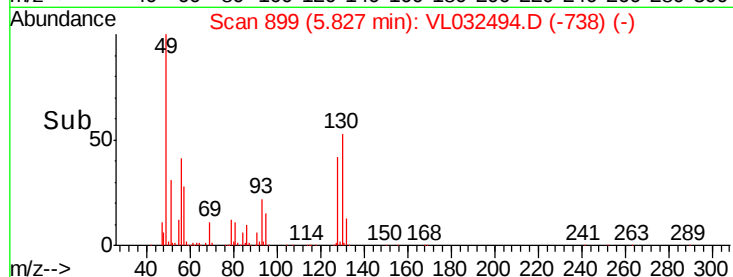
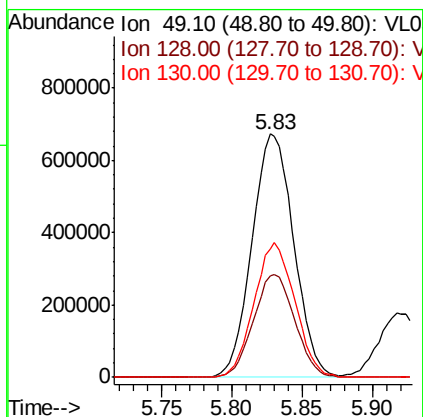
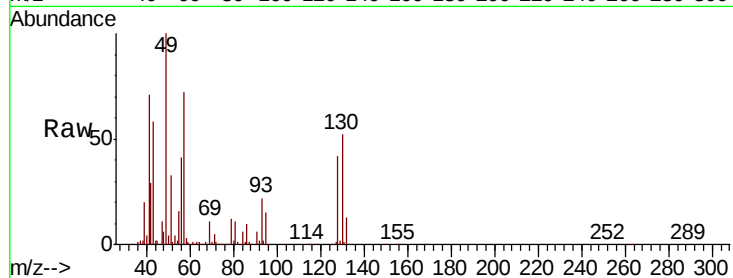
128 41.8 20.7 62.1

130 53.9 26.6 79.7

Manual Integrations
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#2

Dichlorodifluoromethane

Concen: 0.62 ppbv

RT: 3.10 min Scan# 51

Delta R.T. -0.01 min

Lab File: VL032494.D

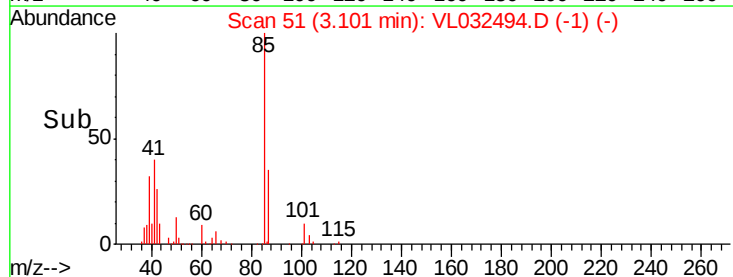
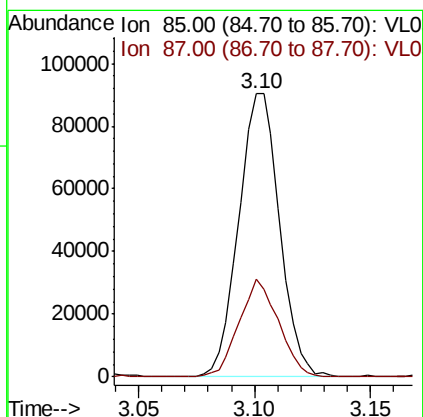
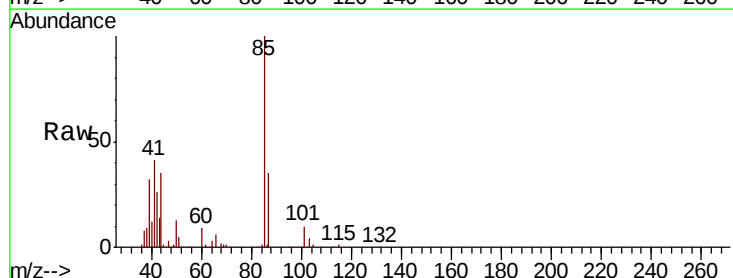
Acq: 11 Sep 2018 1:22

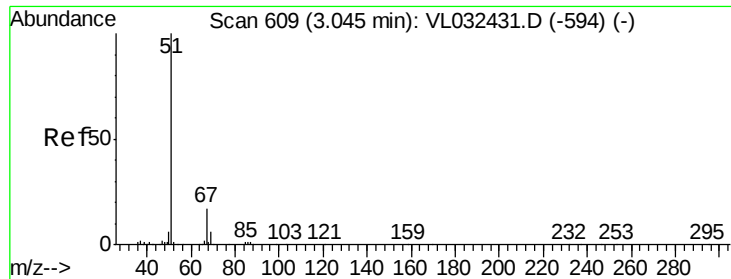
Tgt Ion: 85 Resp: 110873

Ion Ratio Lower Upper

85 100

87 34.6 26.2 39.4





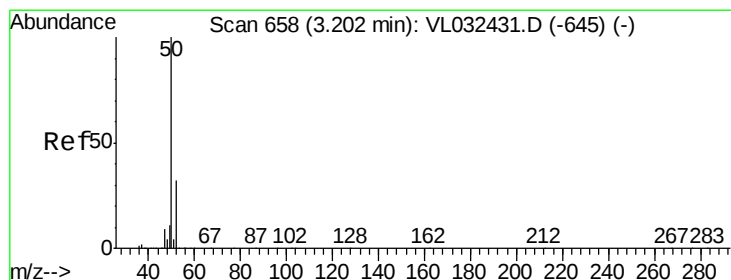
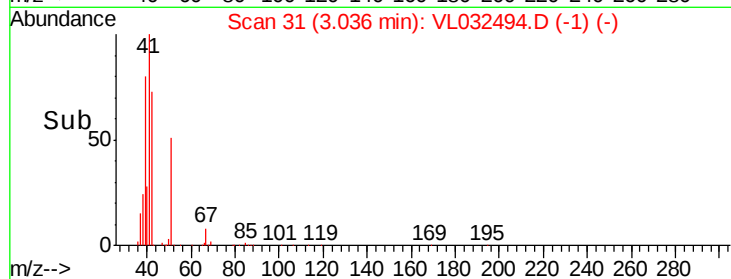
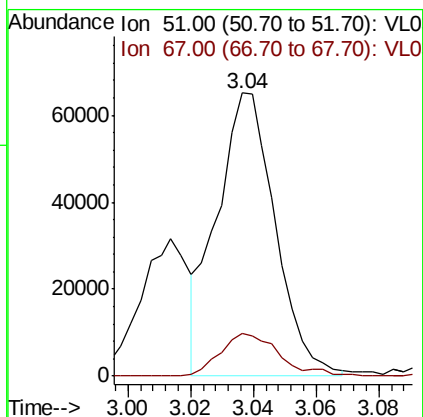
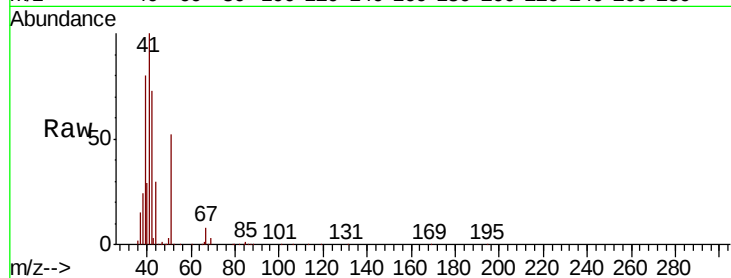
#3
Chlorodifluoromethane
Concen: 0.67 ppbv m
RT: 3.04 min Scan# 31
Delta R.T. -0.01 min
Lab File: VL032494.D
Acq: 11 Sep 2018 1:22

Instrument :
MSVOA_L
ClientSampleId :
249-BERRY

Tot Ion: 51 Resp: 84462
Ion Ratio Lower Upper
51 100
67 15.5 13.8 20.8

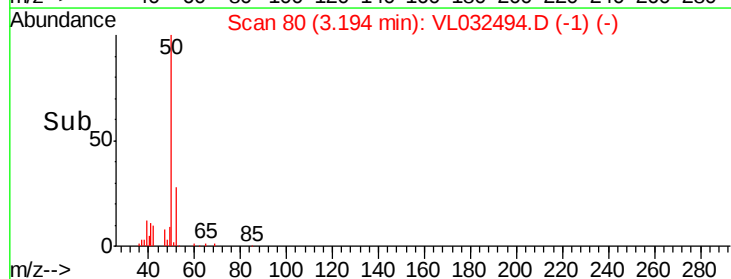
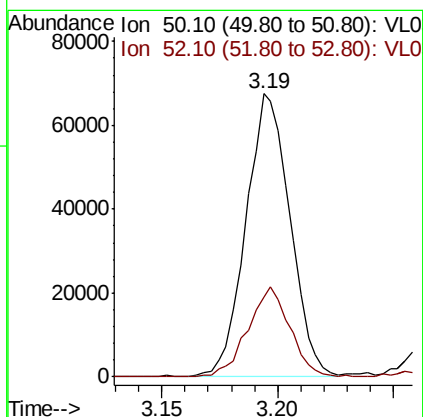
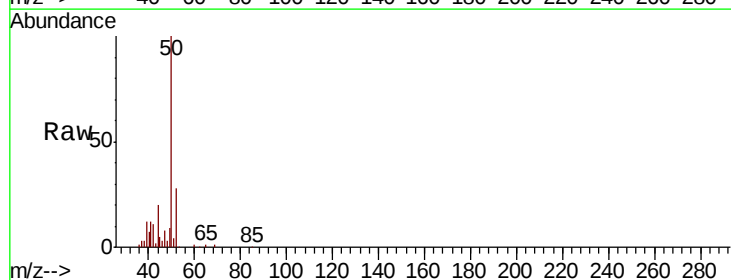
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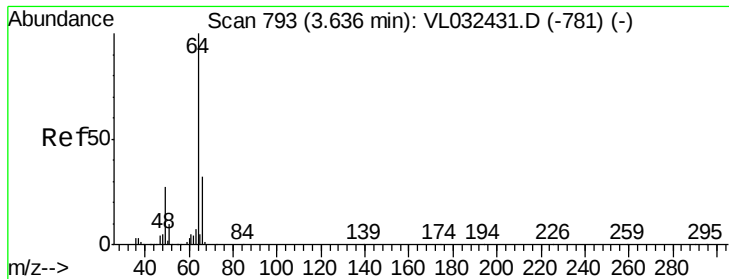
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#4
Chloromethane
Concen: 1.17 ppbv
RT: 3.19 min Scan# 80
Delta R.T. -0.01 min
Lab File: VL032494.D
Acq: 11 Sep 2018 1:22

Tgt Ion: 50 Resp: 89286
Ion Ratio Lower Upper
50 100
52 28.1 25.6 38.4





#7

Chloroethane

Concen: 0.31 ppbv

RT: 3.63 min Scan# 217

Delta R.T. -0.00 min

Lab File: VL032494.D

Acq: 11 Sep 2018 1:22

Instrument :

MSVOA_L

ClientSampleId :

249-BERRY

Tot Ion: 64 Resp: 8195

Ion Ratio Lower Upper

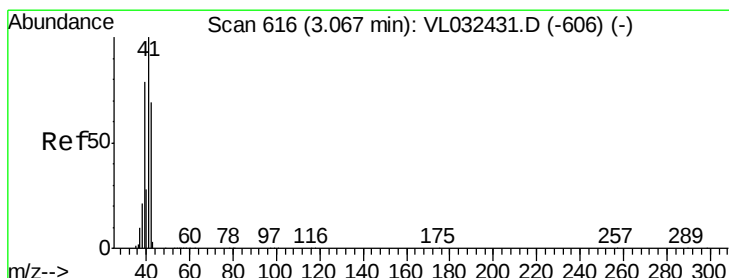
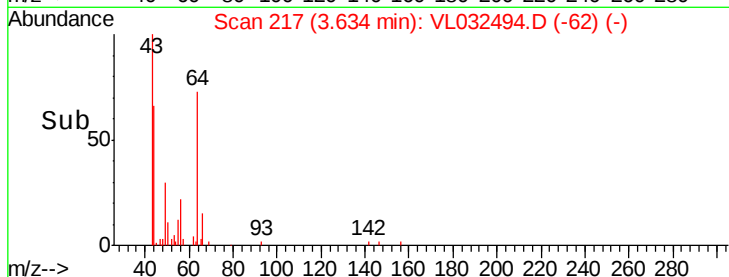
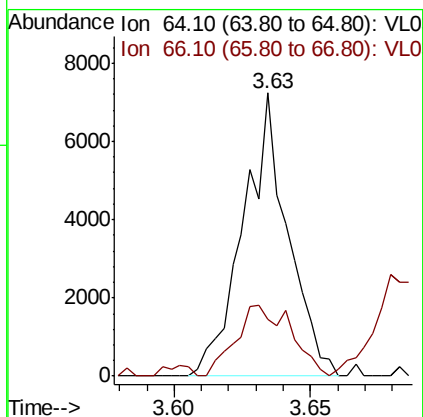
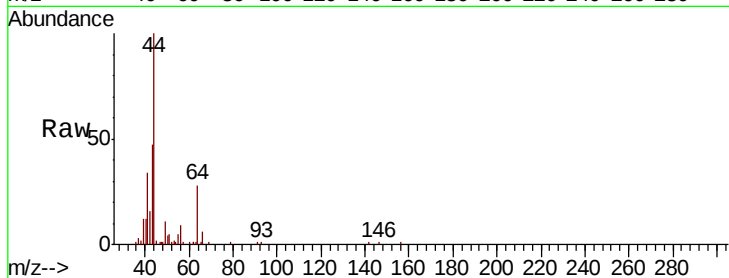
64 100

66 19.9 25.8 38.6#

Manual Integrations
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#9

Propene

Concen: 154.51 ppbv

RT: 3.06 min Scan# 38

Delta R.T. -0.01 min

Lab File: VL032494.D

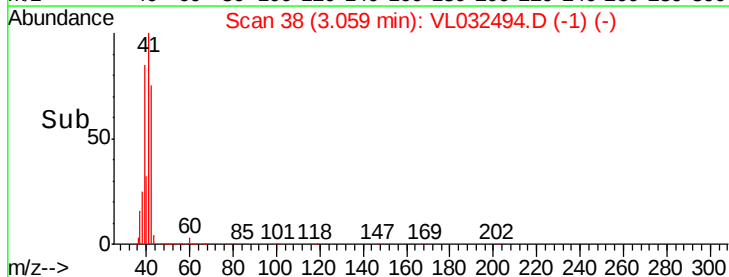
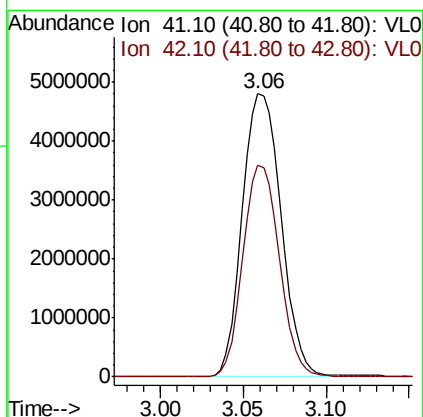
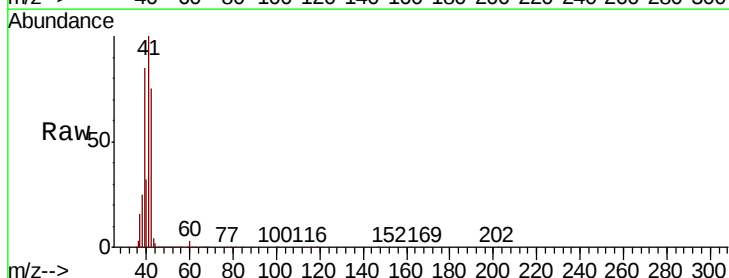
Acq: 11 Sep 2018 1:22

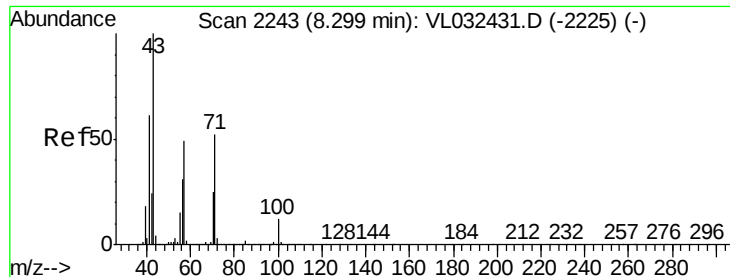
Tgt Ion: 41 Resp: 7857116

Ion Ratio Lower Upper

41 100

42 70.5 56.6 84.8





#10

Heptane

Concen: 1.93 ppbv

RT: 8.30 min Scan# 1667

Delta R.T. -0.00 min

Lab File: VL032494.D

Acq: 11 Sep 2018 1:22

Instrument :

MSVOA_L

ClientSampleId :

249-BERRY

Tot Ion: 43 Resp: 352053

Ion Ratio Lower Upper

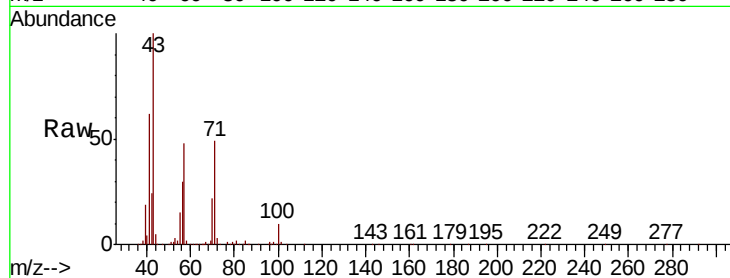
43 100

57 52.6 39.6 59.4

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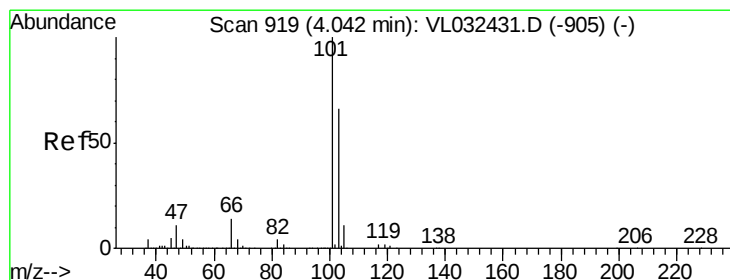
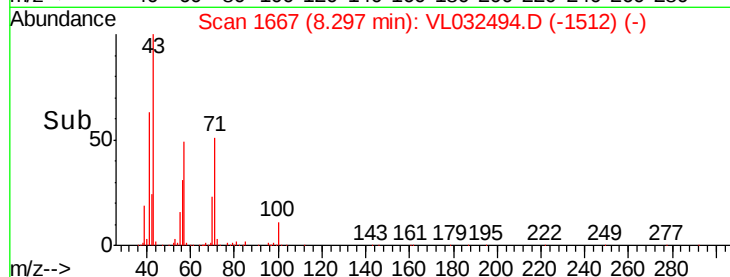
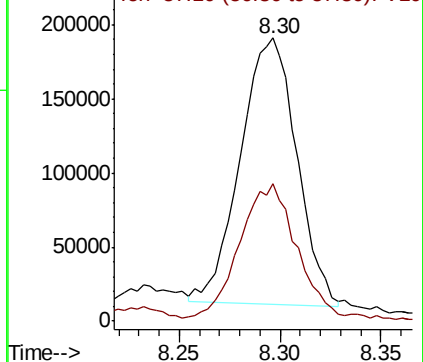
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#11

Trichlorofluoromethane

Concen: 5.31 ppbv

RT: 4.04 min Scan# 343

Delta R.T. -0.00 min

Lab File: VL032494.D

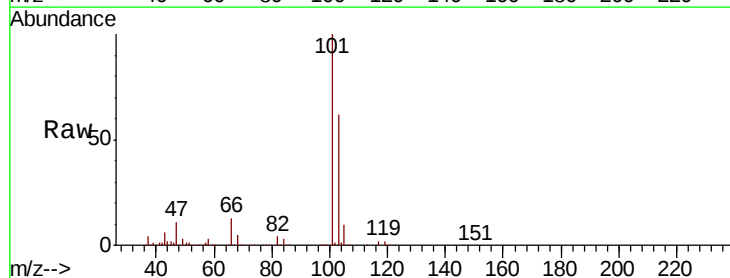
Acq: 11 Sep 2018 1:22

Tgt Ion: 101 Resp: 852541

Ion Ratio Lower Upper

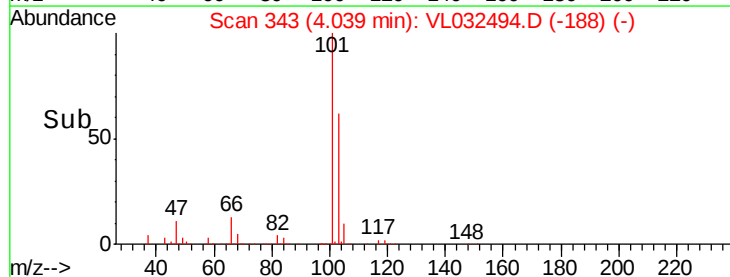
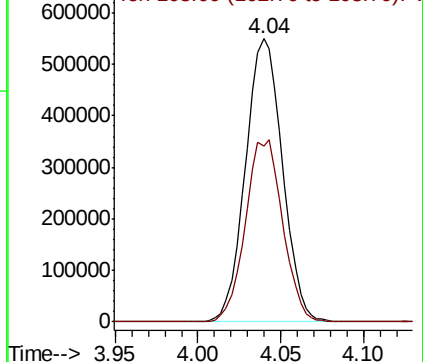
101 100

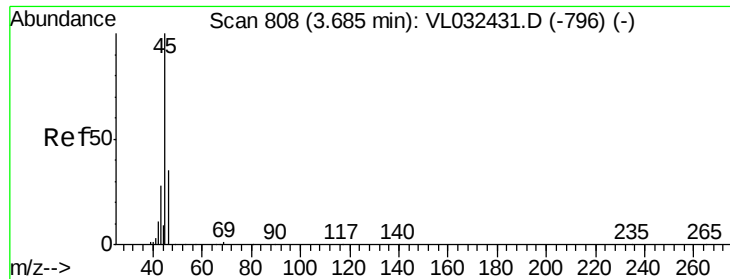
103 62.1 52.8 79.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#13

Ethanol

Concen: 92.31 ppbv

RT: 3.71 min Scan# 242

Delta R.T. 0.03 min

Lab File: VL032494.D

Acq: 11 Sep 2018 1:22

Instrument :

MSVOA_L

ClientSampleId :

249-BERRY

Tot Ion: 45 Resp: 1463150

Ion Ratio Lower Upper

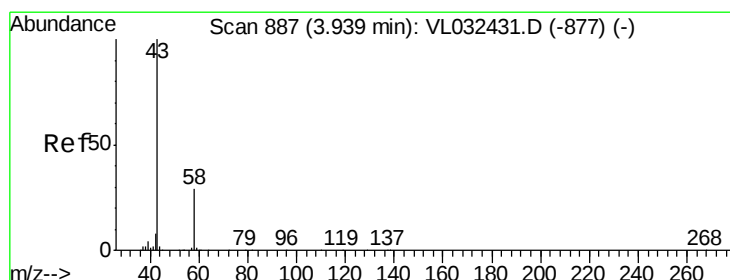
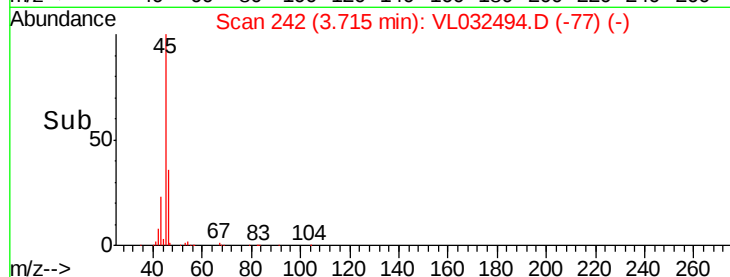
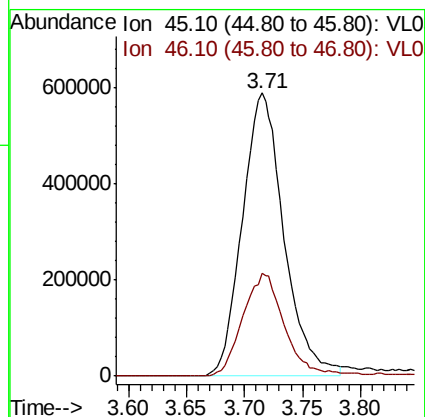
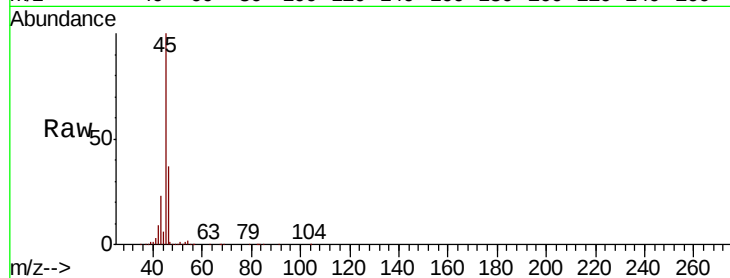
45 100

46 37.0 14.2 56.8

Manual Integrations
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#15

Acetone

Concen: 104.52 ppbv m

RT: 3.95 min Scan# 314

Delta R.T. 0.01 min

Lab File: VL032494.D

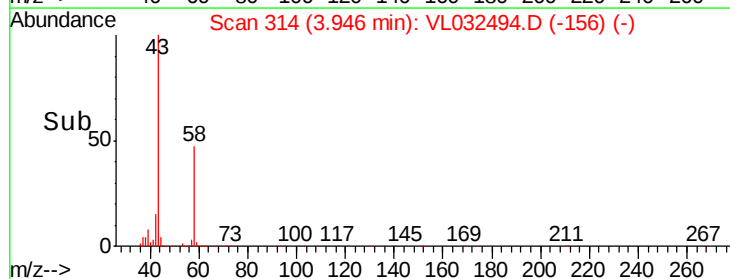
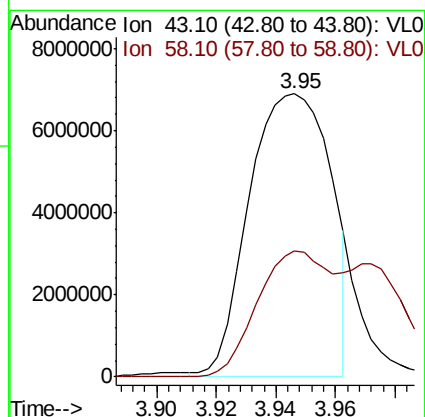
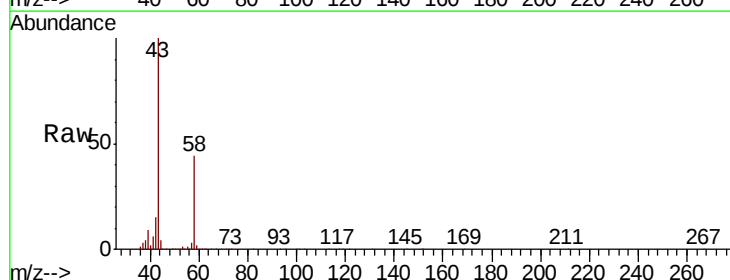
Acq: 11 Sep 2018 1:22

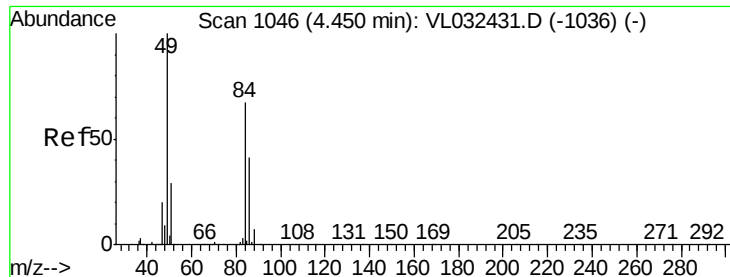
Tgt Ion: 43 Resp: 13107106

Ion Ratio Lower Upper

43 100

58 70.3 22.6 33.8#





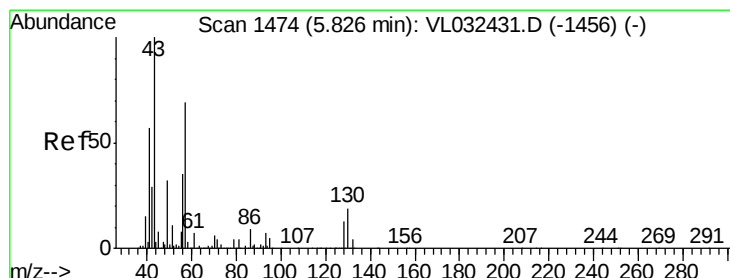
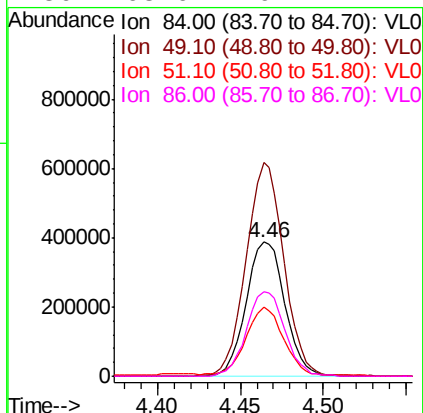
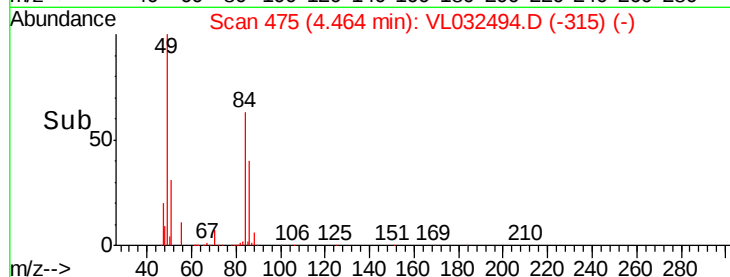
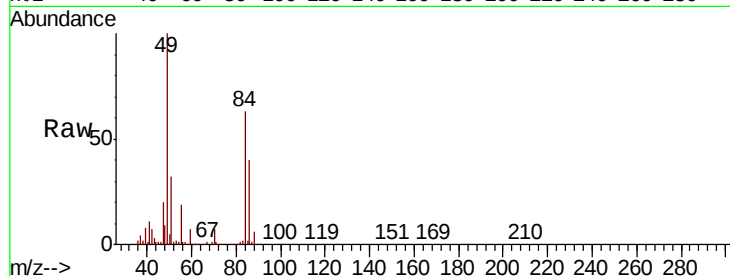
#20
Methvlene Chloride
Concen: 13.17 ppbv
RT: 4.46 min Scan# 475
Delta R.T. 0.01 min
Lab File: VL032494.D
Acq: 11 Sep 2018 1:22

Instrument :
MSVOA_L
ClientSampleId :
249-BERRY

Tot Ion	Ratio	Lower	Upper
84	100		
49	159.4	119.1	178.7
51	50.1	35.2	52.8
86	63.6	49.4	74.2

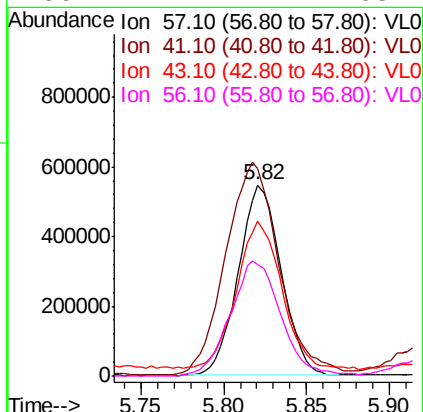
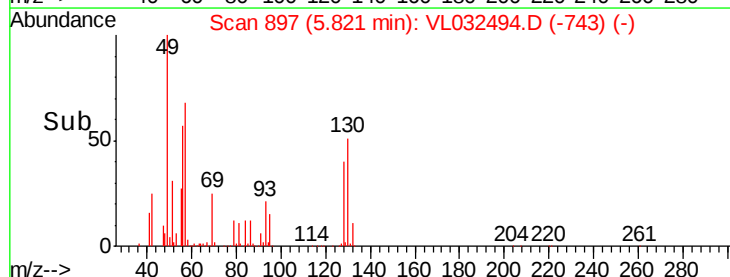
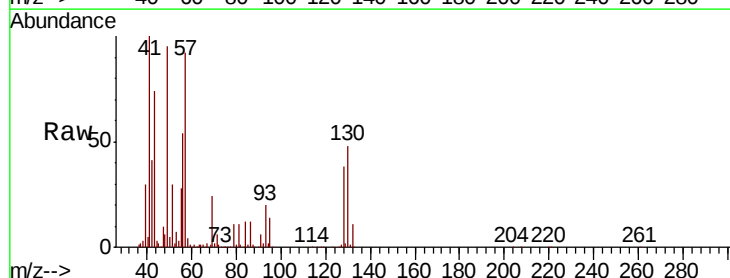
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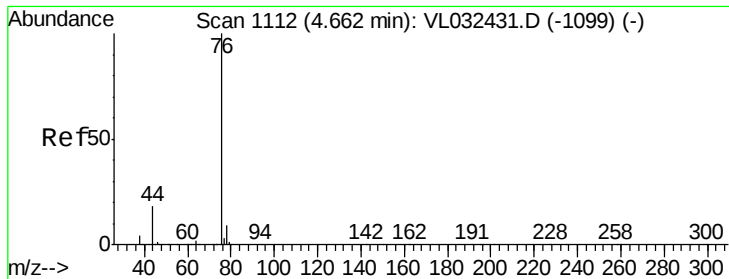
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#26
Hexane
Concen: 7.35 ppbv
RT: 5.82 min Scan# 897
Delta R.T. -0.01 min
Lab File: VL032494.D
Acq: 11 Sep 2018 1:22

Tgt Ion	Ratio	Lower	Upper
57	100		
41	140.2	69.0	103.4#
43	83.4	172.1	258.1#
56	71.4	42.2	63.2#





#27

Carbon Disulfide

Concen: 4.46 ppbv

RT: 4.66 min Scan# 535

Delta R.T. -0.01 min

Lab File: VL032494.D

Acq: 11 Sep 2018 1:22

Instrument :

MSVOA_L

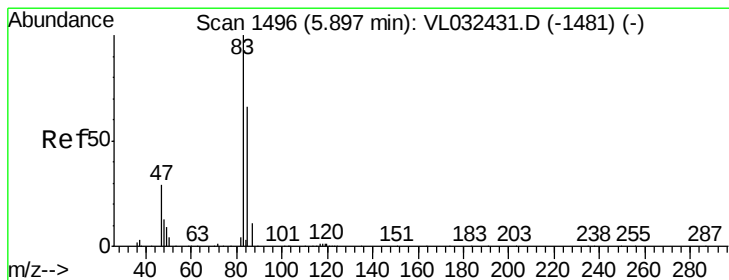
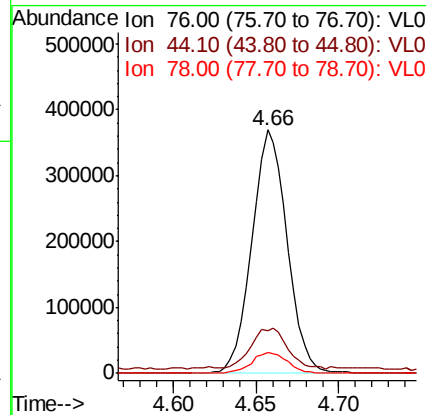
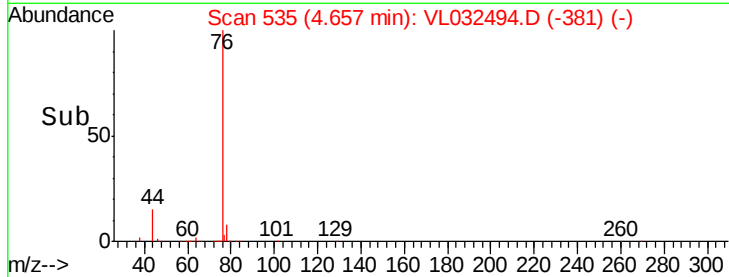
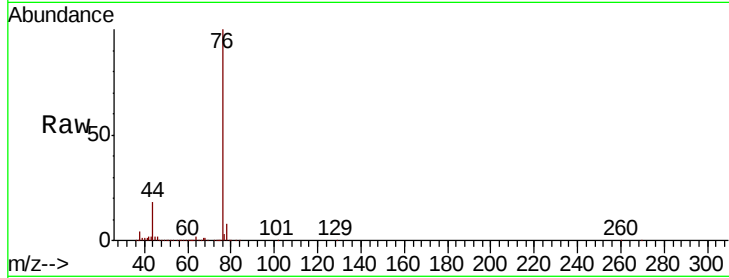
ClientSampleId :

249-BERRY

Tot Ion:	76	Resp:	546116
Ion Ratio	Lower	Upper	
76	100		
44	21.6	14.0	21.0#
78	8.8	7.5	11.3

Manual Integrations
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#29

Chloroform

Concen: 20.58 ppbv

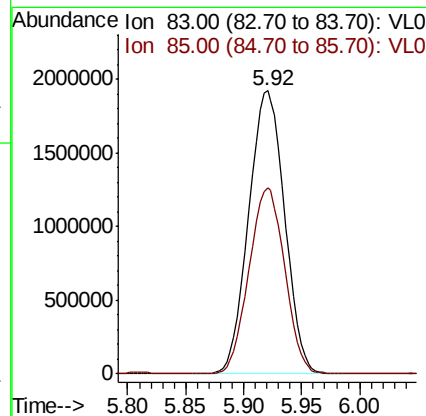
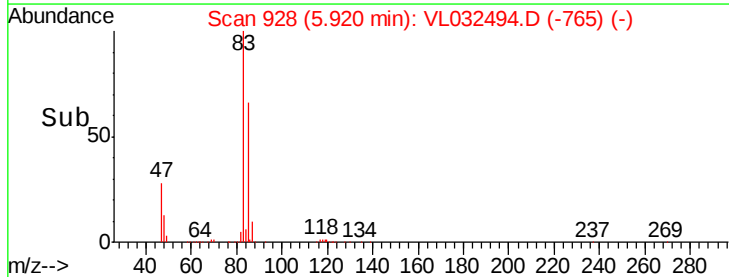
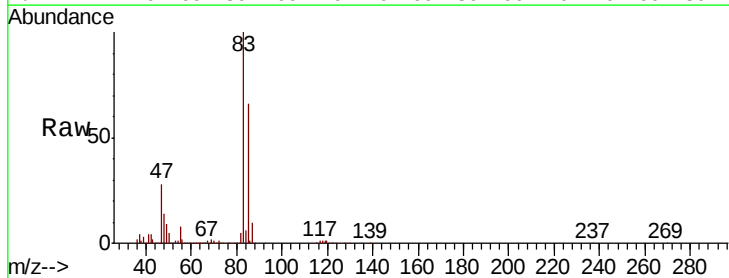
RT: 5.92 min Scan# 928

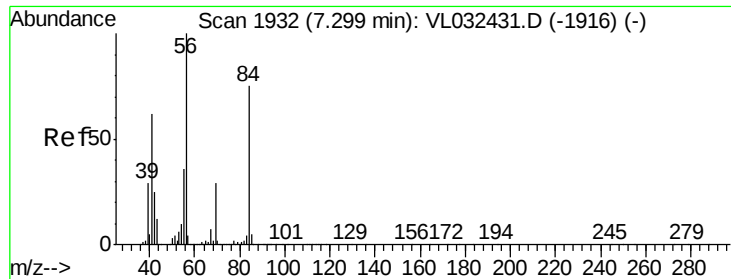
Delta R.T. 0.02 min

Lab File: VL032494.D

Acq: 11 Sep 2018 1:22

Tgt Ion:	83	Resp:	4160334
Ion Ratio	Lower	Upper	
83	100		
85	65.7	52.5	78.7





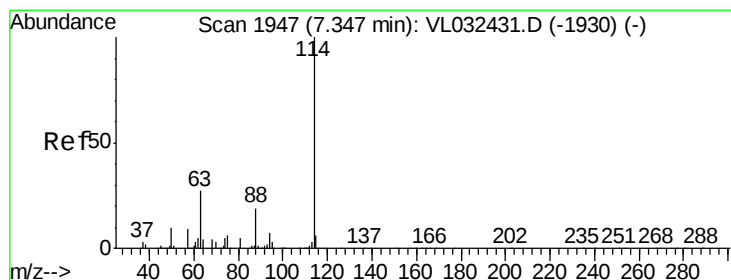
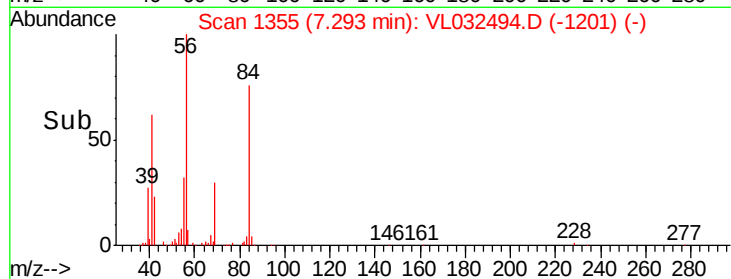
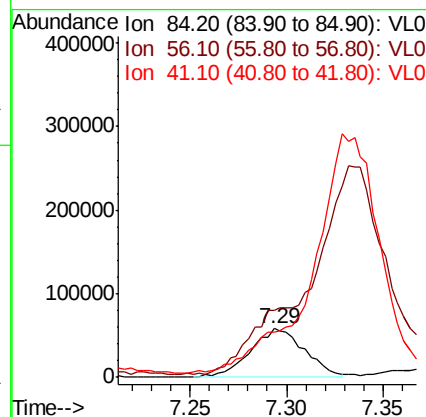
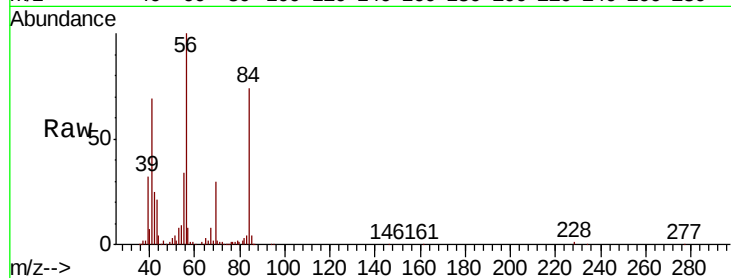
#30
Cvclohexane
Concen: 1.18 ppbv m
RT: 7.29 min Scan# 1355
Delta R.T. -0.01 min
Lab File: VL032494.D
Acq: 11 Sep 2018 1:22

Instrument :
MSVOA_L
ClientSampleId :
249-BERRY

Tot Ion	Ratio	Lower	Upper
84	100		
56	0.0	113.5	170.3#
41	0.0	68.1	102.1#

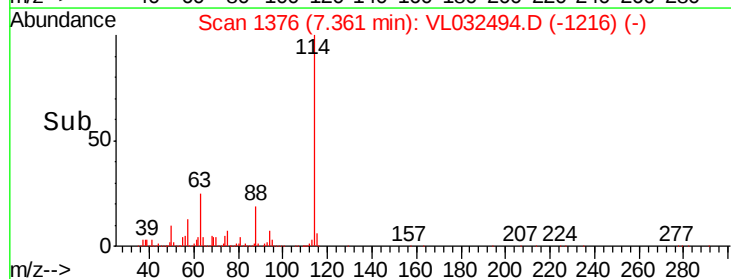
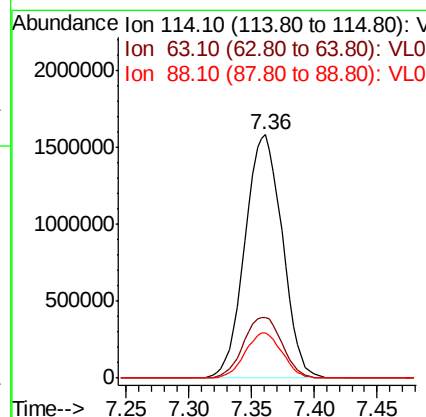
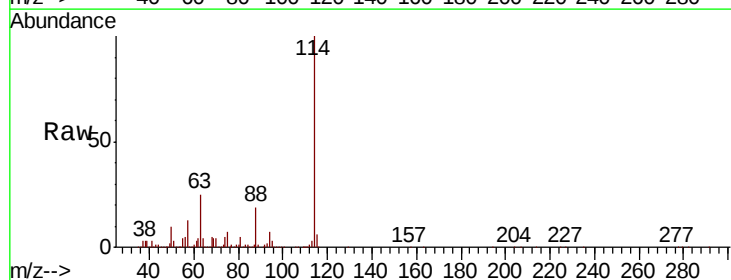
Manual Integrations
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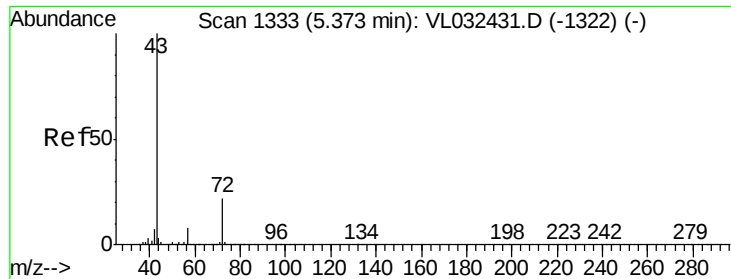
MMDadoda
9/12/2018 3:59:44 PM



#33
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 7.36 min Scan# 1376
Delta R.T. 0.01 min
Lab File: VL032494.D
Acq: 11 Sep 2018 1:22

Tgt Ion	Ratio	Lower	Upper
114	100		
63	26.0	22.2	33.4
88	18.5	15.0	22.4





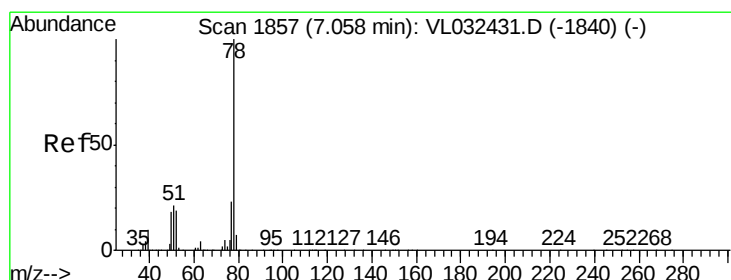
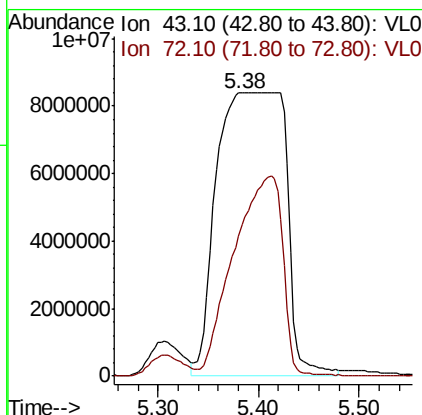
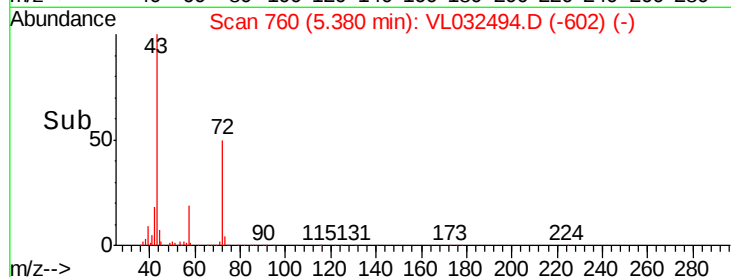
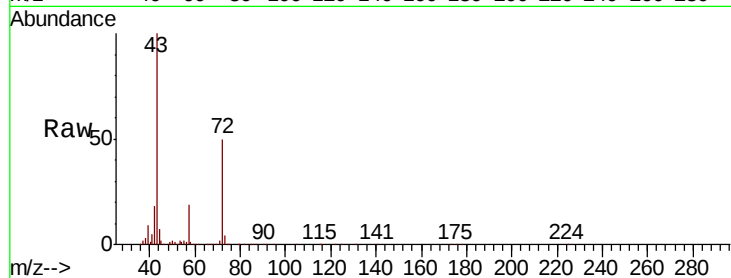
#34
2-Butanone
Concen: 184.25 ppbv m
RT: 5.38 min Scan# 760
Delta R.T. 0.01 min
Lab File: VL032494.D
Acq: 11 Sep 2018 1:22

Instrument :
MSVOA_L
ClientSampleId :
249-BERRY

Tot Ion: 43 Resp: 40020758
Ion Ratio Lower Upper
43 100
72 50.3 17.8 26.6#

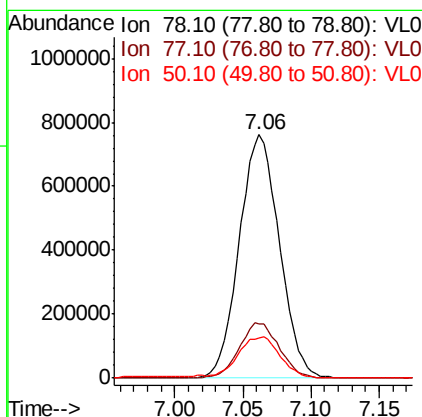
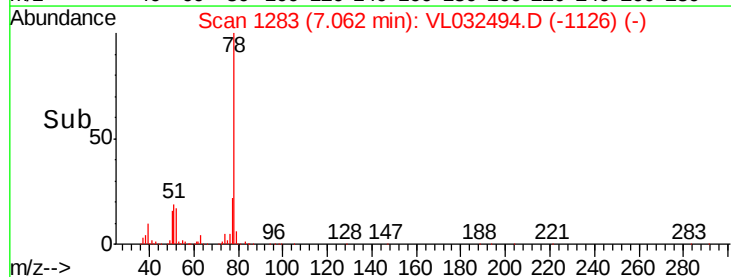
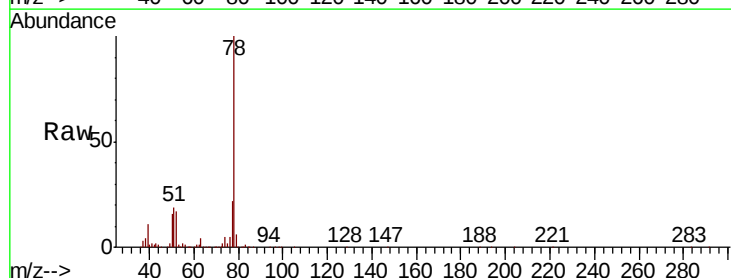
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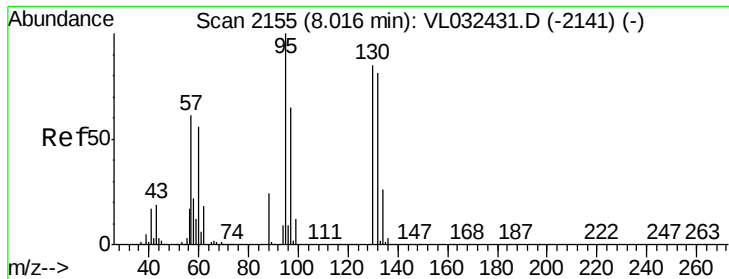
MMDadoda
9/12/2018 3:59:44 PM



#36
Benzene
Concen: 5.58 ppbv
RT: 7.06 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VL032494.D
Acq: 11 Sep 2018 1:22

Tgt Ion: 78 Resp: 1551450
Ion Ratio Lower Upper
78 100
77 22.1 18.4 27.6
50 16.1 14.4 21.6





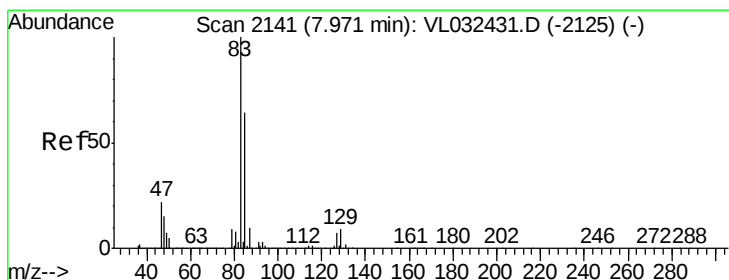
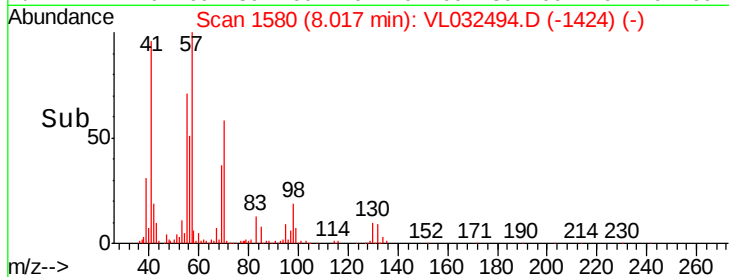
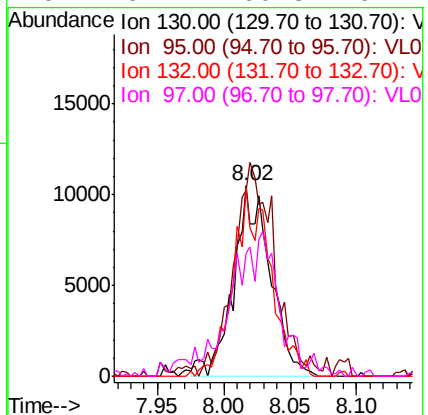
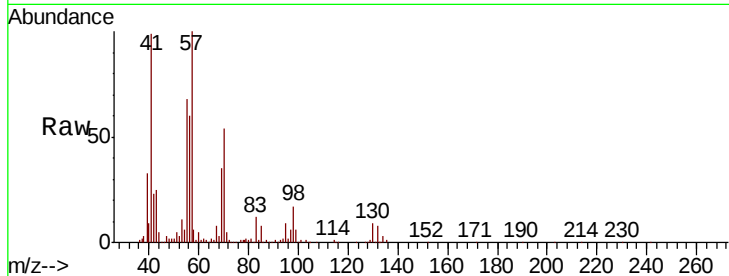
#38
 Trichloroethene
 Concen: 0.19 ppbv m
 RT: 8.02 min Scan# 1580
 Delta R.T. 0.00 min
 Lab File: VL032494.D
 Acq: 11 Sep 2018 1:22

Instrument :
 MSVOA_L
 ClientSampleId :
 249-BERRY

Tot Ion	Ratio	Resp	Lower	Upper
130	100	20071		
95	97.2		94.2	141.4
132	96.7		76.2	114.4
97	64.1		60.8	91.2

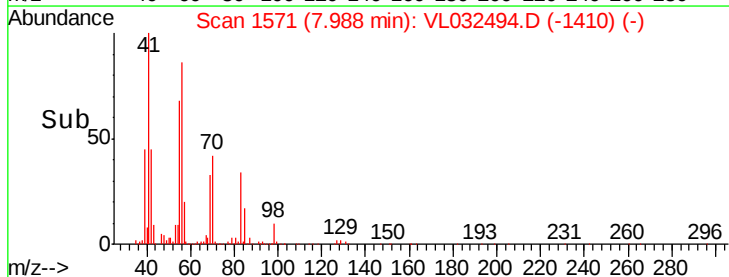
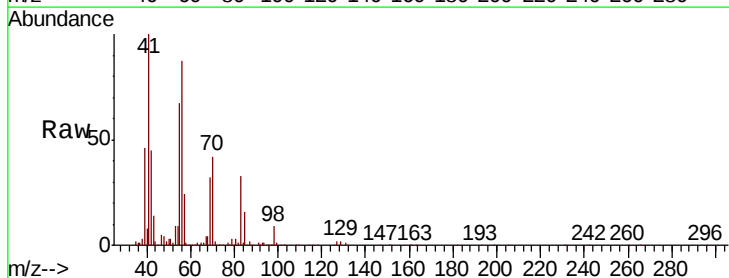
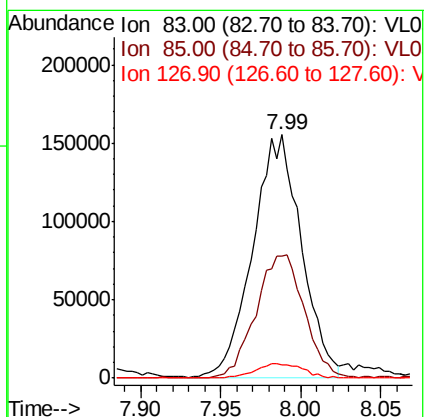
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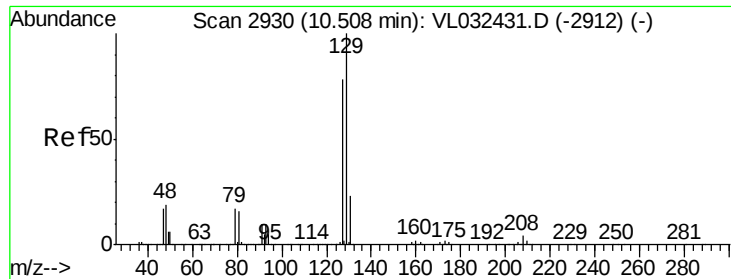
MMDadoda
 9/12/2018 3:59:44 PM



#42
 Bromodichloromethane
 Concen: 1.38 ppbv
 RT: 7.99 min Scan# 1571
 Delta R.T. 0.02 min
 Lab File: VL032494.D
 Acq: 11 Sep 2018 1:22

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	323685		
85	50.1		51.1	76.7#
127	5.3		5.8	8.8#





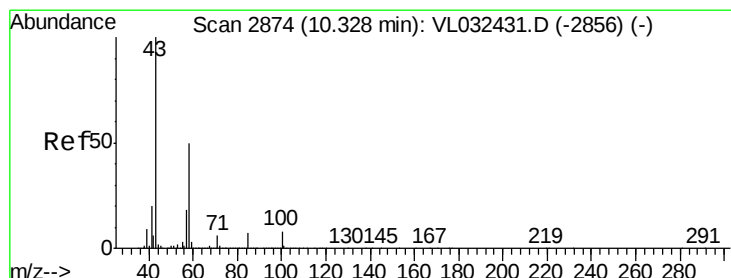
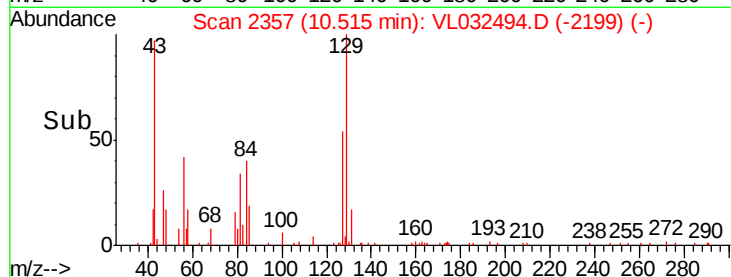
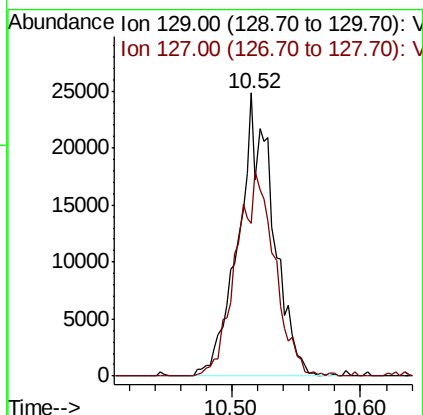
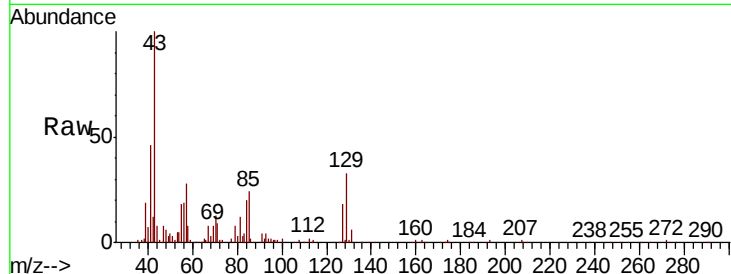
#48
Dibromochloromethane
Concen: 0.27 ppbv m
RT: 10.52 min Scan# 2357
Delta R.T. 0.01 min
Lab File: VL032494.D
Acq: 11 Sep 2018 1:22

Instrument :
MSVOA_L
ClientSampleId :
249-BERRY

Tot Ion:129 Resp: 46804
Ion Ratio Lower Upper
129 100
127 79.4 39.5 118.3

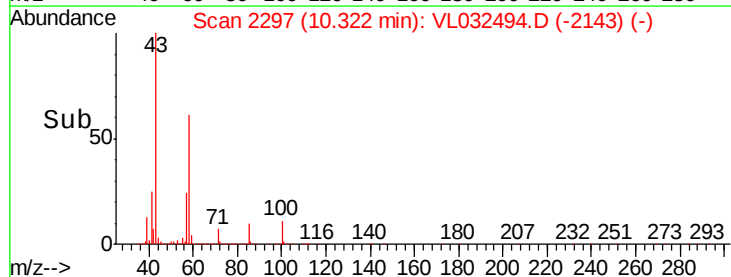
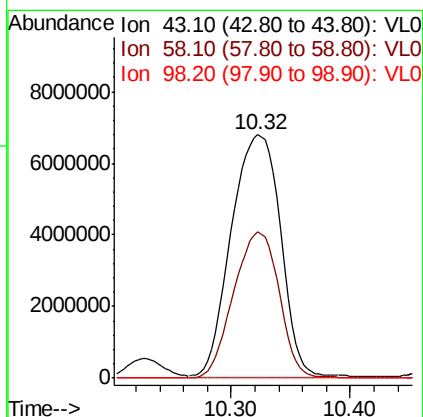
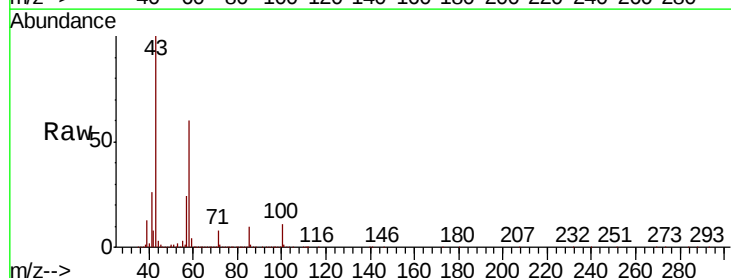
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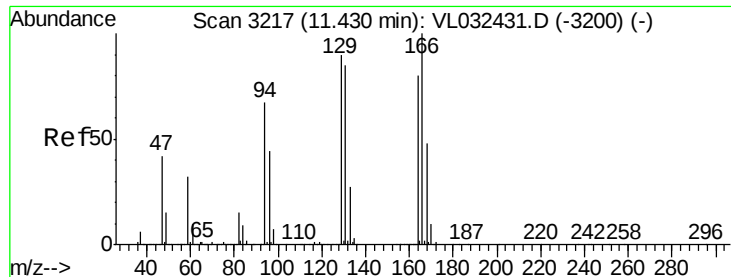
MMDadoda
9/12/2018 3:59:44 PM



#51
2-Hexanone
Concen: 91.23 ppbv
RT: 10.32 min Scan# 2297
Delta R.T. -0.01 min
Lab File: VL032494.D
Acq: 11 Sep 2018 1:22

Tgt Ion: 43 Resp:19227785
Ion Ratio Lower Upper
43 100
58 56.5 39.2 58.8
98 0.1 0.4 0.6#





#52

Tetrachloroethene

Concen: 1.33 ppbv m

RT: 11.43 min Scan# 2640

Delta R.T. -0.01 min

Lab File: VL032494.D

Acq: 11 Sep 2018 1:22

Instrument :

MSVOA_L

ClientSampled :

249-BERRY

Tot Ion:164 Resp: 114890

Ion Ratio Lower Upper

164 100

166 124.4 100.6 150.8

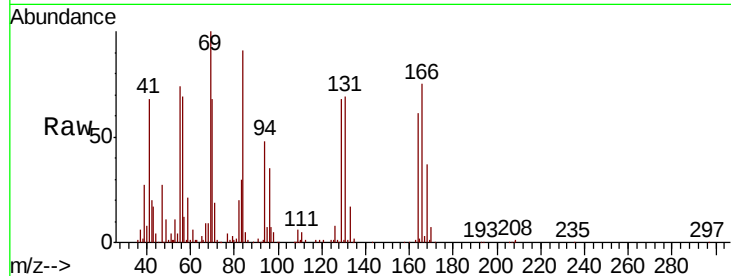
129 111.9 89.9 134.9

131 114.6 85.9 128.9

Manual Integrations
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MMDadoda

9/12/2018 3:59:44 PM

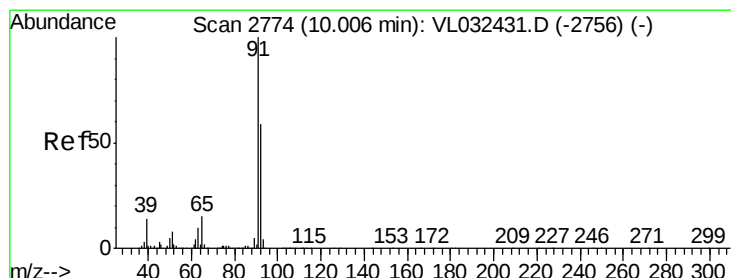
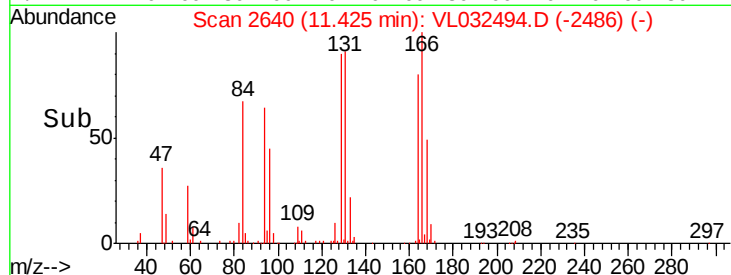
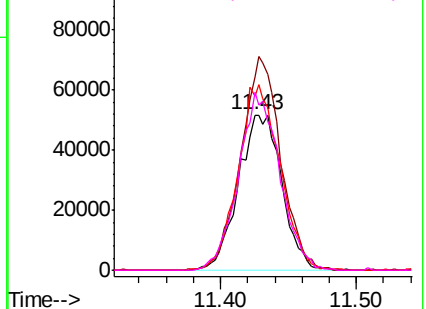


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 4.70 ppbv

RT: 10.00 min Scan# 2198

Delta R.T. -0.00 min

Lab File: VL032494.D

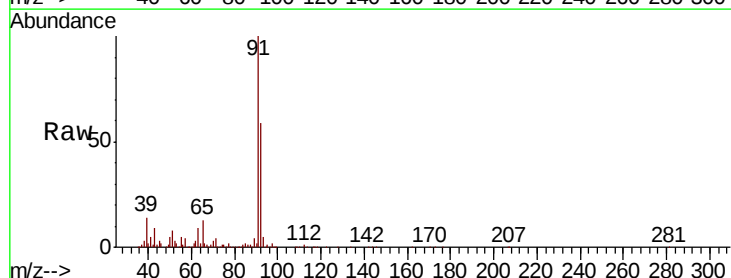
Acq: 11 Sep 2018 1:22

Tgt Ion: 91 Resp: 1366582

Ion Ratio Lower Upper

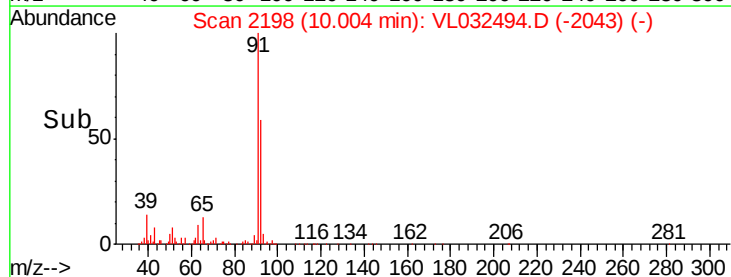
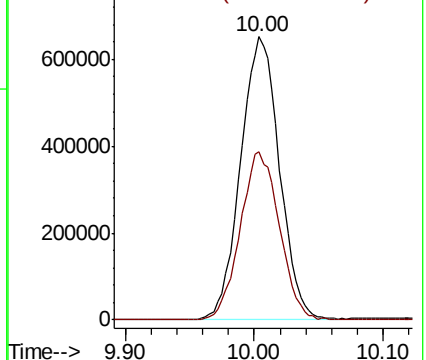
91 100

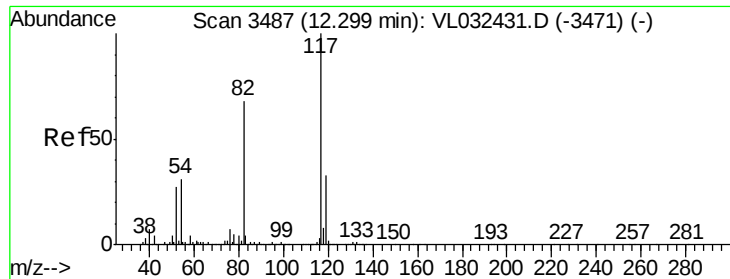
92 59.9 48.1 72.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





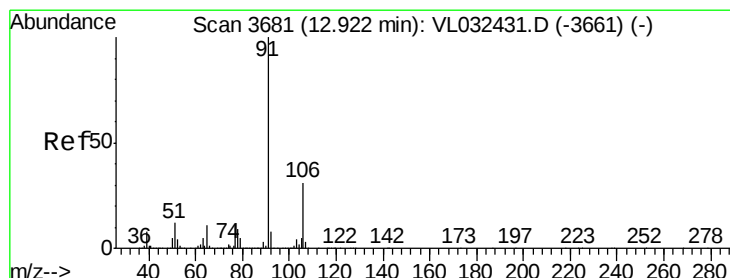
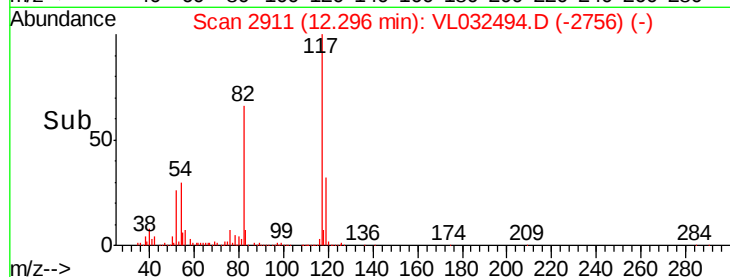
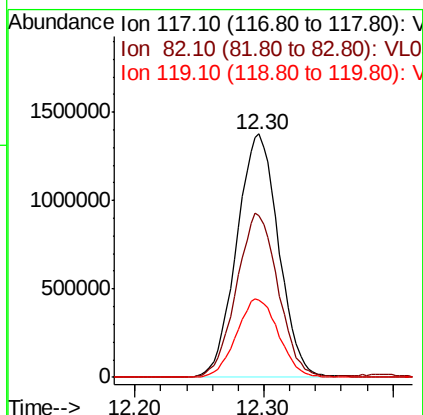
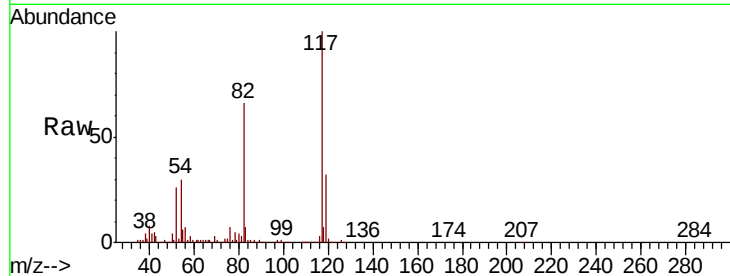
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.30 min Scan# 2911
Delta R.T. -0.00 min
Lab File: VL032494.D
Acq: 11 Sep 2018 1:22

Instrument :
MSVOA_L
ClientSampleId :
249-BERRY

Tot Ion	Ratio	Lower	Upper
117	100		
82	67.2	53.0	79.6
119	32.7	45.9	68.9

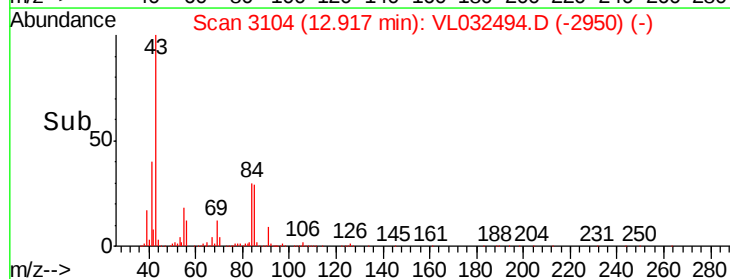
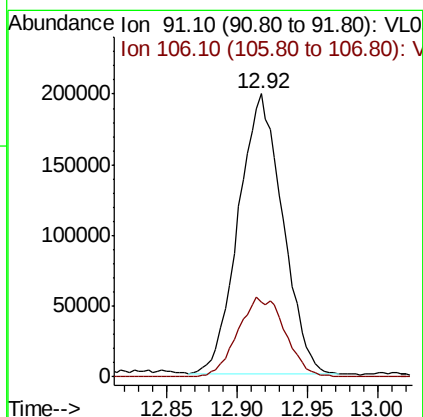
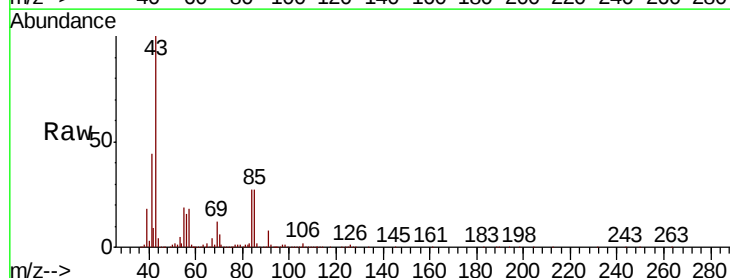
Manual Integrations
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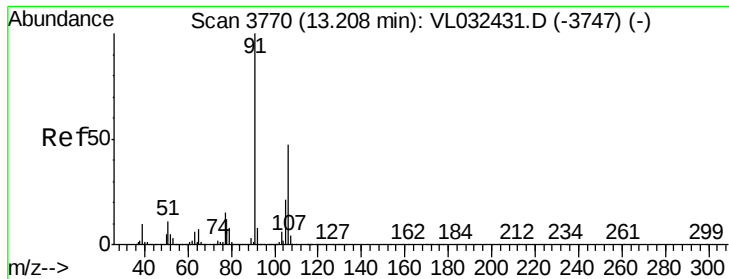
MMDadoda
9/12/2018 3:59:44 PM



#58
Ethyl Benzene
Concen: 1.18 ppbv
RT: 12.92 min Scan# 3104
Delta R.T. -0.01 min
Lab File: VL032494.D
Acq: 11 Sep 2018 1:22

Tgt Ion	Ratio	Lower	Upper
91	100		
106	26.9	24.8	37.2





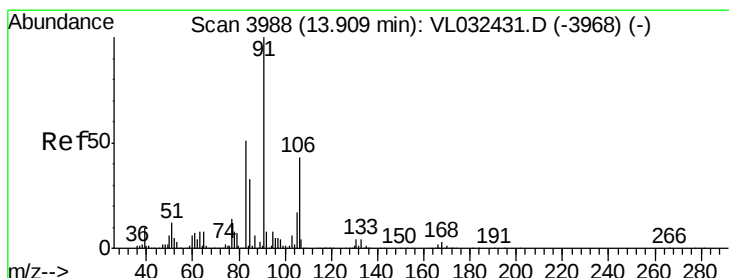
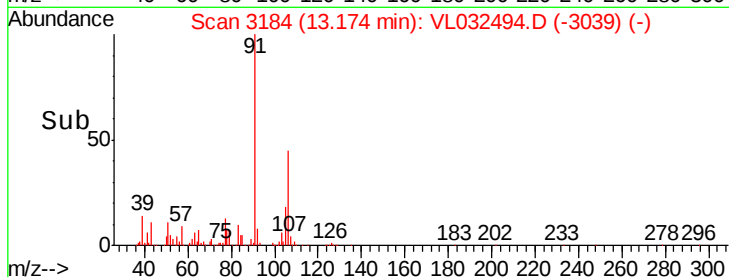
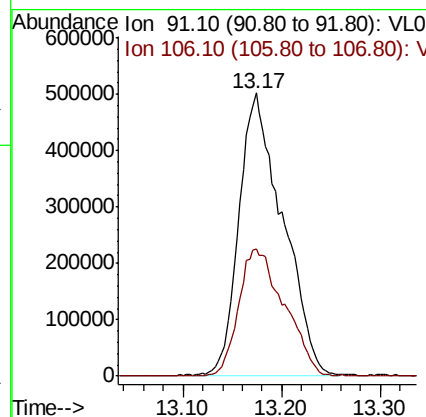
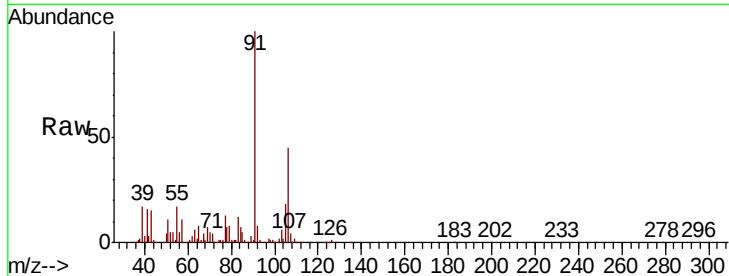
#59
m/p-Xylene
Concen: 4.63 ppbv
RT: 13.17 min Scan# 3184
Delta R.T. -0.03 min
Lab File: VL032494.D
Acq: 11 Sep 2018 1:22

Instrument :
MSVOA_L
ClientSampleId :
249-BERRY

Tot Ion: 91 Resp: 1531328
Ion Ratio Lower Upper
91 100
106 47.2 36.6 55.0

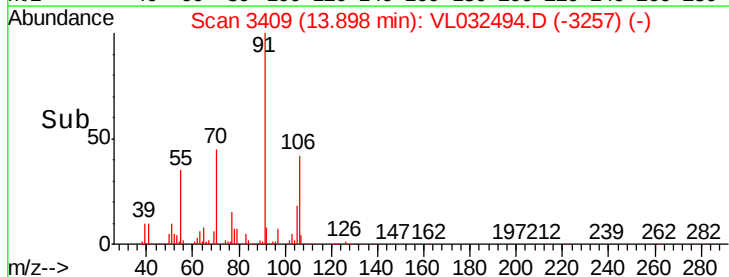
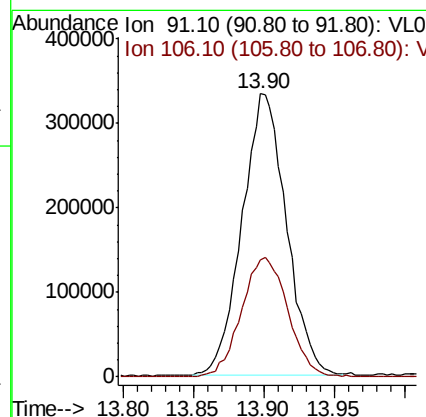
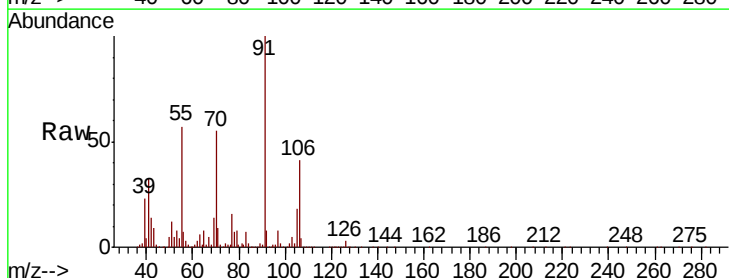
Manual Integrations
APPROVED

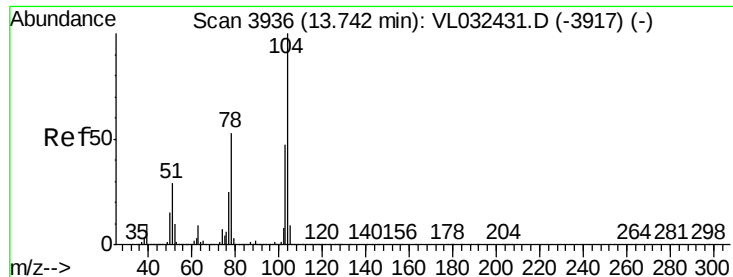
MMDadoda
9/12/2018 3:59:44 PM



#60
o-Xylene
Concen: 2.26 ppbv
RT: 13.90 min Scan# 3409
Delta R.T. -0.01 min
Lab File: VL032494.D
Acq: 11 Sep 2018 1:22

Tgt Ion: 91 Resp: 733804
Ion Ratio Lower Upper
91 100
106 44.4 21.9 65.7





#61

Stvrene

Concen: 3.73 ppbv

RT: 13.74 min Scan# 3359

Delta R.T. -0.01 min

Lab File: VL032494.D

Acq: 11 Sep 2018 1:22

Instrument :

MSVOA_L

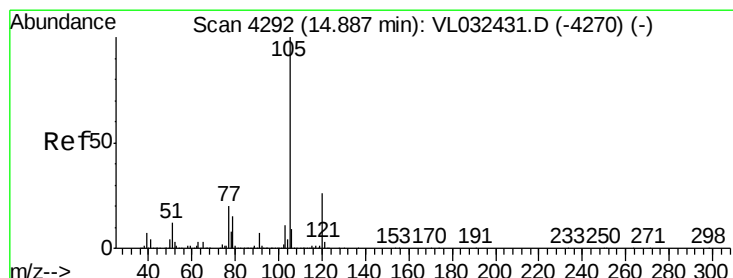
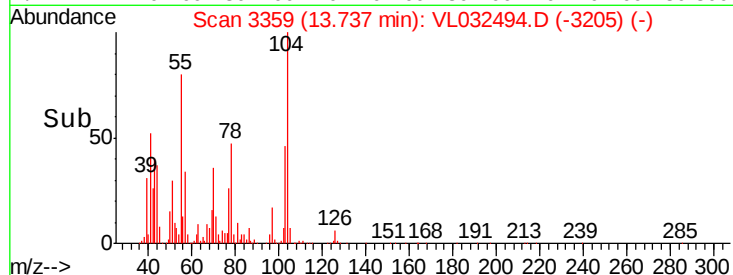
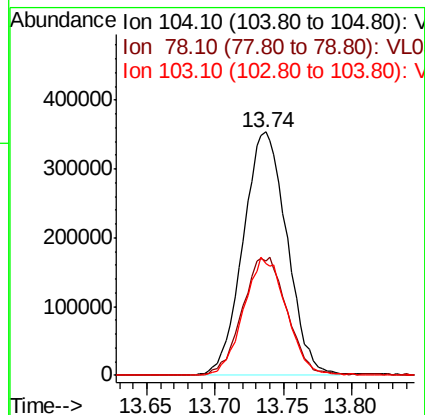
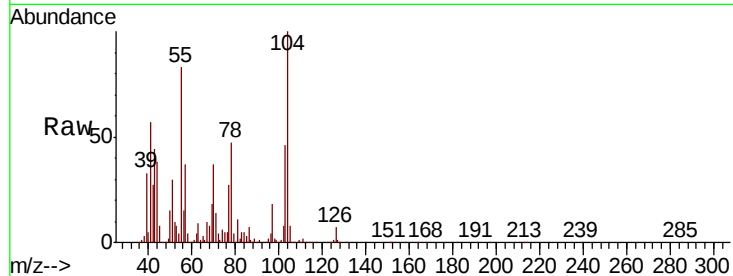
ClientSampleId :

249-BERRY

Tot Ion:	104	Resp:	786011
Ion Ratio	Lower	Upper	
104	100		
78	49.7	41.8	62.8
103	47.6	38.0	57.0

Manual Integrations
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MMDadoda
9/12/2018 3:59:44 PM



#62

Isopropylbenzene

Concen: 1.55 ppbv

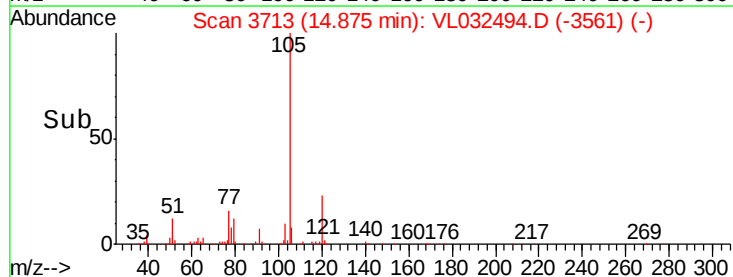
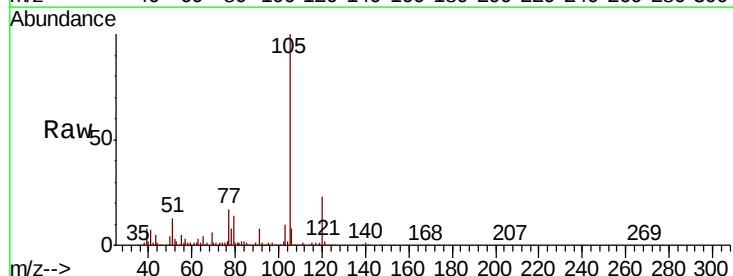
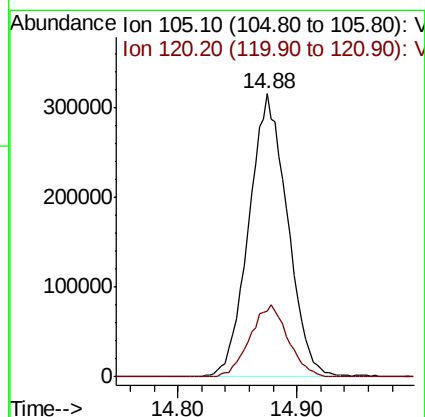
RT: 14.88 min Scan# 3713

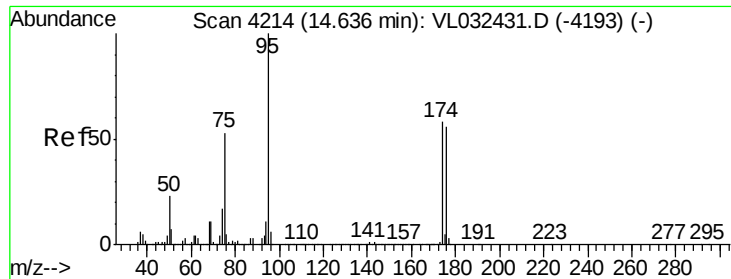
Delta R.T. -0.01 min

Lab File: VL032494.D

Acq: 11 Sep 2018 1:22

Tgt Ion:	105	Resp:	709142
Ion Ratio	Lower	Upper	
105	100		
120	25.1	20.6	31.0





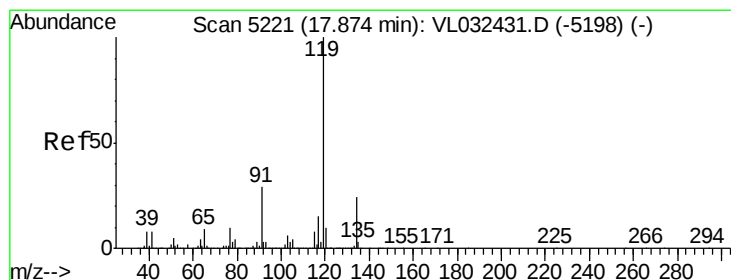
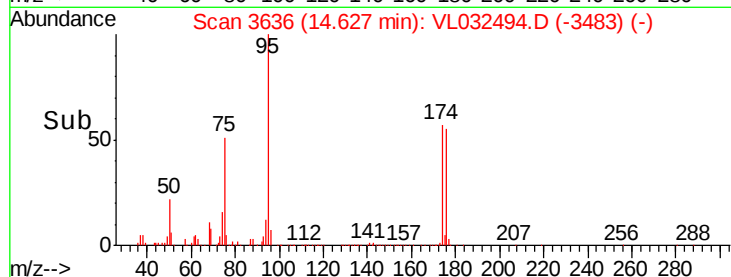
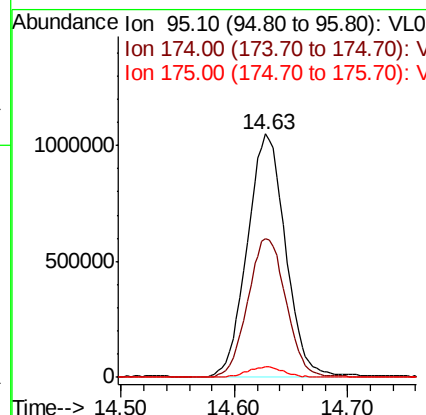
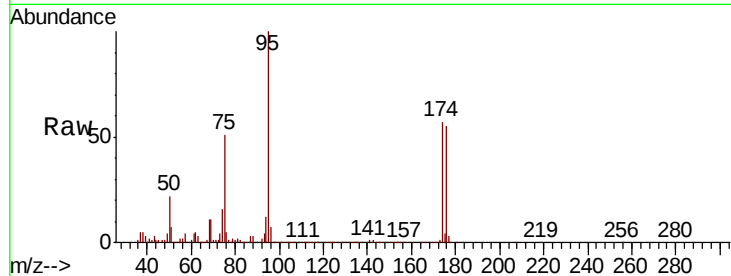
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.69 ppbv
 RT: 14.63 min Scan# 3636
 Delta R.T. -0.01 min
 Lab File: VL032494.D
 Acq: 11 Sep 2018 1:22

Instrument :
 MSVOA_L
 ClientSampled :
 249-BERRY

Tot Ion	Ratio	Lower	Upper
95	100		
174	57.9	46.3	69.5
175	4.3	3.4	5.0

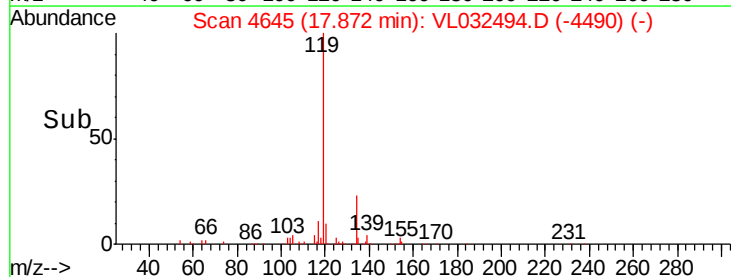
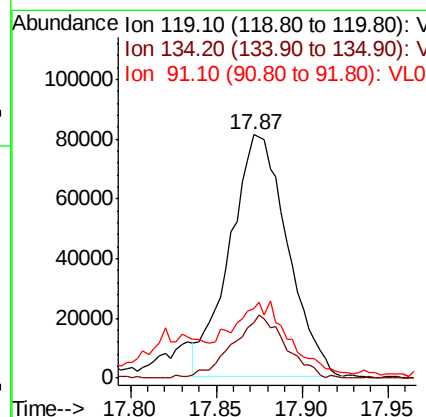
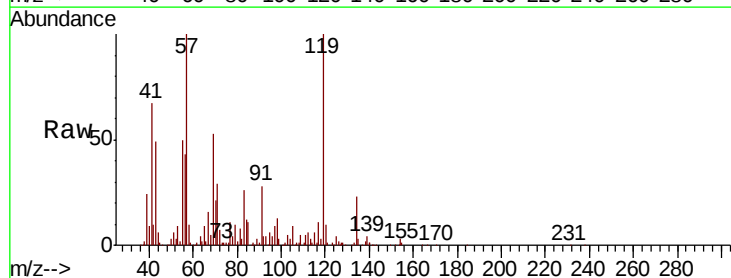
Manual Integrations
 APPROVED

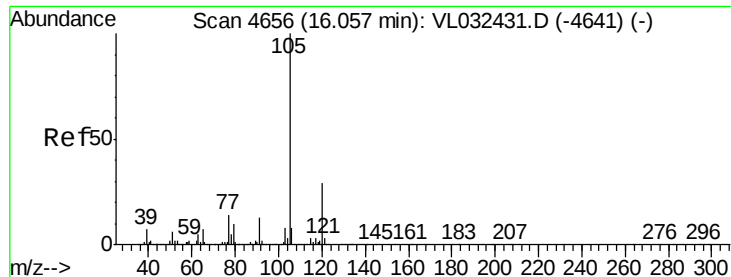
MMDadoda
 9/12/2018 3:59:44 PM



#69
 p-Isopropyltoluene
 Concen: 0.41 ppbv
 RT: 17.87 min Scan# 4645
 Delta R.T. -0.00 min
 Lab File: VL032494.D
 Acq: 11 Sep 2018 1:22

Tgt Ion	Ratio	Lower	Upper
119	100		
134	24.1	20.4	30.6
91	45.9	23.4	35.2





#72

4-Ethyltoluene

Concen: 0.68 ppbv m

RT: 16.05 min Scan# 4079

Delta R.T. -0.01 min

Lab File: VL032494.D

Acq: 11 Sep 2018 1:22

Instrument :

MSVOA_L

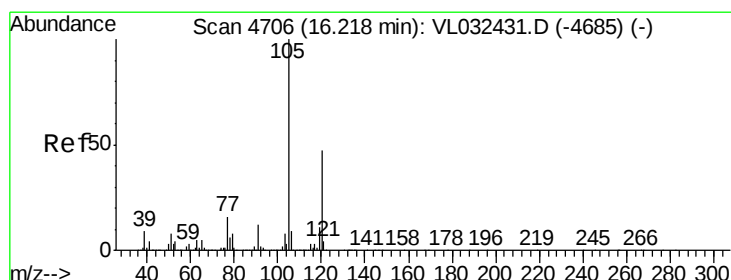
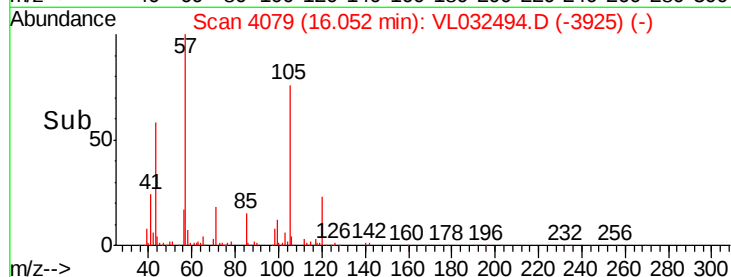
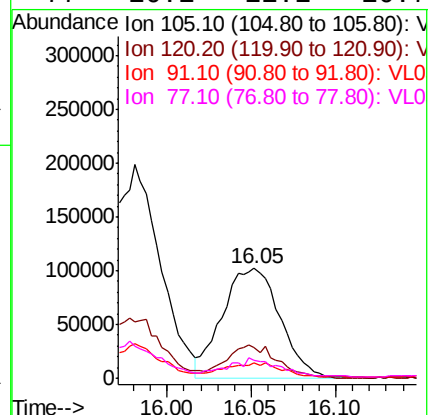
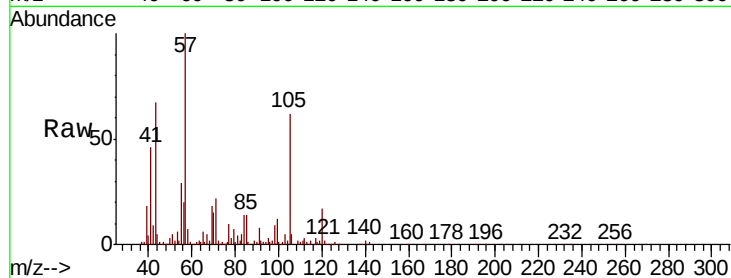
ClientSampleId :

249-BERRY

Tot Ion:	105	Resp:	243079
Ion Ratio	Lower	Upper	
105	100		
120	27.2	23.5	35.3
91	14.1	10.2	15.2
77	16.1	11.1	16.7

Manual Integrations
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9/12/2018 3:59:44 PM



#73

1,3,5-Trimethylbenzene

Concen: 0.74 ppbv

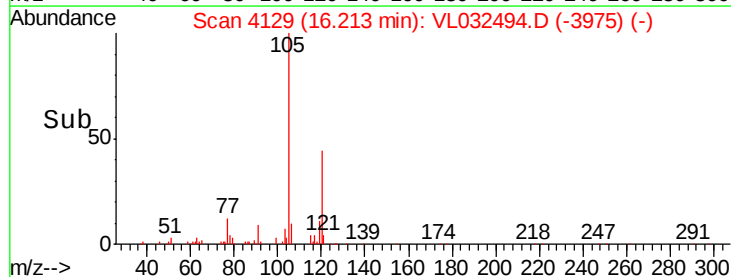
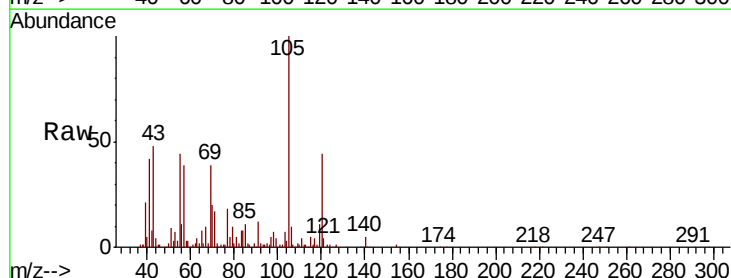
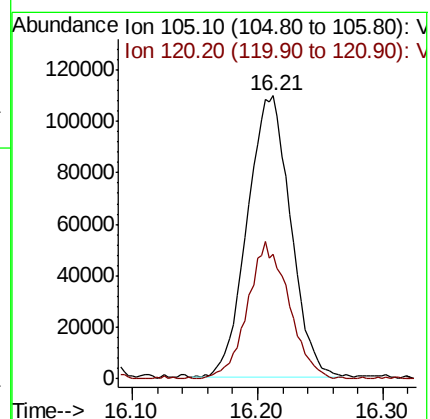
RT: 16.21 min Scan# 4129

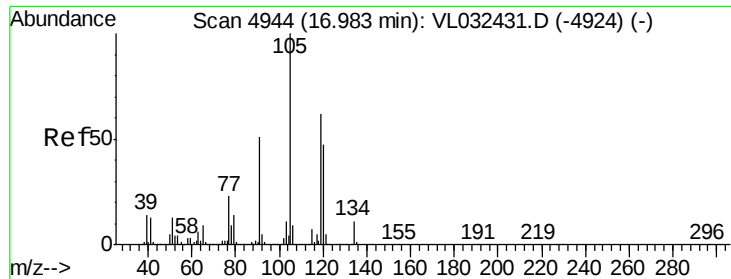
Delta R.T. -0.01 min

Lab File: VL032494.D

Acq: 11 Sep 2018 1:22

Tgt Ion:	105	Resp:	263258
Ion Ratio	Lower	Upper	
105	100		
120	43.9	37.9	56.9





#74

1,2,4-Trimethylbenzene

Concen: 1.91 ppbv

RT: 16.97 min Scan# 4366

Delta R.T. -0.01 min

Lab File: VL032494.D

Acq: 11 Sep 2018 1:22

Instrument :

MSVOA_L

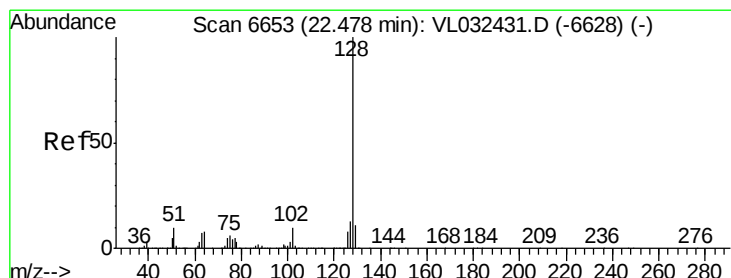
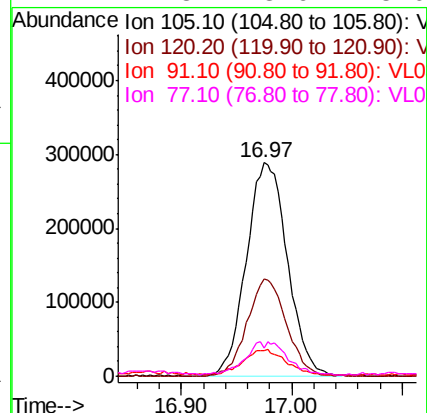
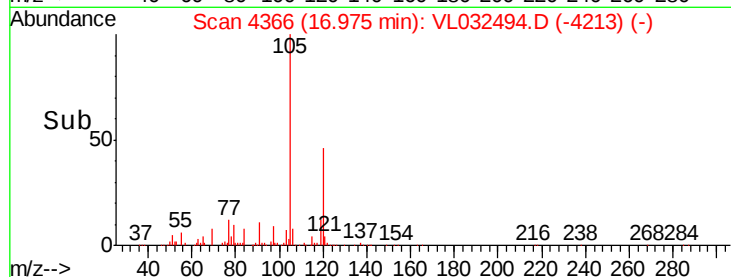
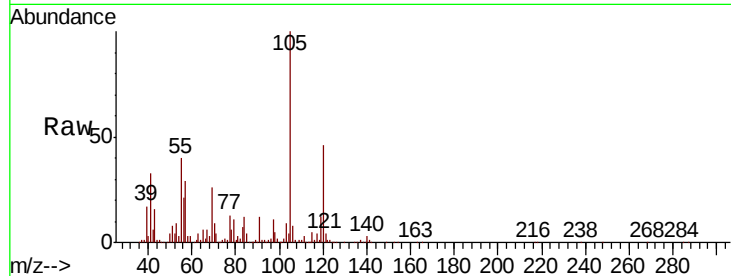
ClientSampleId :

249-BERRY

Tot Ion	Ratio	Resp Lower	Upper
105	100		
120	45.6	37.8	56.8
91	11.6	41.4	62.0
77	12.8	18.6	28.0

Manual Integrations
APPROVED

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9/12/2018 3:59:44 PM



#79

Naphthalene

Concen: 0.34 ppbv m

RT: 22.47 min Scan# 6074

Delta R.T. -0.01 min

Lab File: VL032494.D

Acq: 11 Sep 2018 1:22

Tgt Ion	Ratio	Resp Lower	Upper
128	100		
127	13.3	10.2	15.2
129	11.2	8.5	12.7

