

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052219\
 Data File : VL033747.D
 Acq On : 22 May 2019 16:52
 Operator : SY/AP
 Sample : K2929-10
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 BPS1-ODA-3002-04

Manual Integrations
 APPROVED

MMDadoda
 5/28/2019 2:50:52 AM

Quant Time: May 23 05:14:55 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 18 2019
 QLast Update : Fri May 17 08:15:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.75	49	946524	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	2216002	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.23	117	2273345	10.00	ppbv	-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.56	95	1778694	9.65	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.50%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.07	85	28406	0.142	ppbv	96
3) Chlorodifluoromethane	3.01	51	24454m	0.226	ppbv	
4) Chloromethane	3.17	50	93910	1.514	ppbv	99
5) Vinyl Chloride	3.28	62	2284	0.036	ppbv #	87
9) Propene	3.03	41	135509	2.938	ppbv	96
11) Trichlorofluoromethane	4.00	101	44948	0.236	ppbv	87
12) 1,1,2-Trichlorotrifluoroet	4.54	101	64610	0.486	ppbv	98
13) Ethanol	3.66	45	1563857	104.920	ppbv	99
15) Acetone	3.89	43	4482142	34.130	ppbv	90
17) tert-Butyl alcohol	4.37	59	504690	4.753	ppbv	99
20) Methylene Chloride	4.40	84	95387	1.886	ppbv	93
26) Hexane	5.77	57	96379	0.972	ppbv #	13
34) 2-Butanone	5.32	43	311694	2.269	ppbv	99
35) Carbon Tetrachloride	7.12	117	9977m	0.056	ppbv	
36) Benzene	7.00	78	26218m	0.130	ppbv	
38) Trichloroethene	7.94	130	17290m	0.231	ppbv	
53) Toluene	9.93	91	156207	0.718	ppbv	96

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

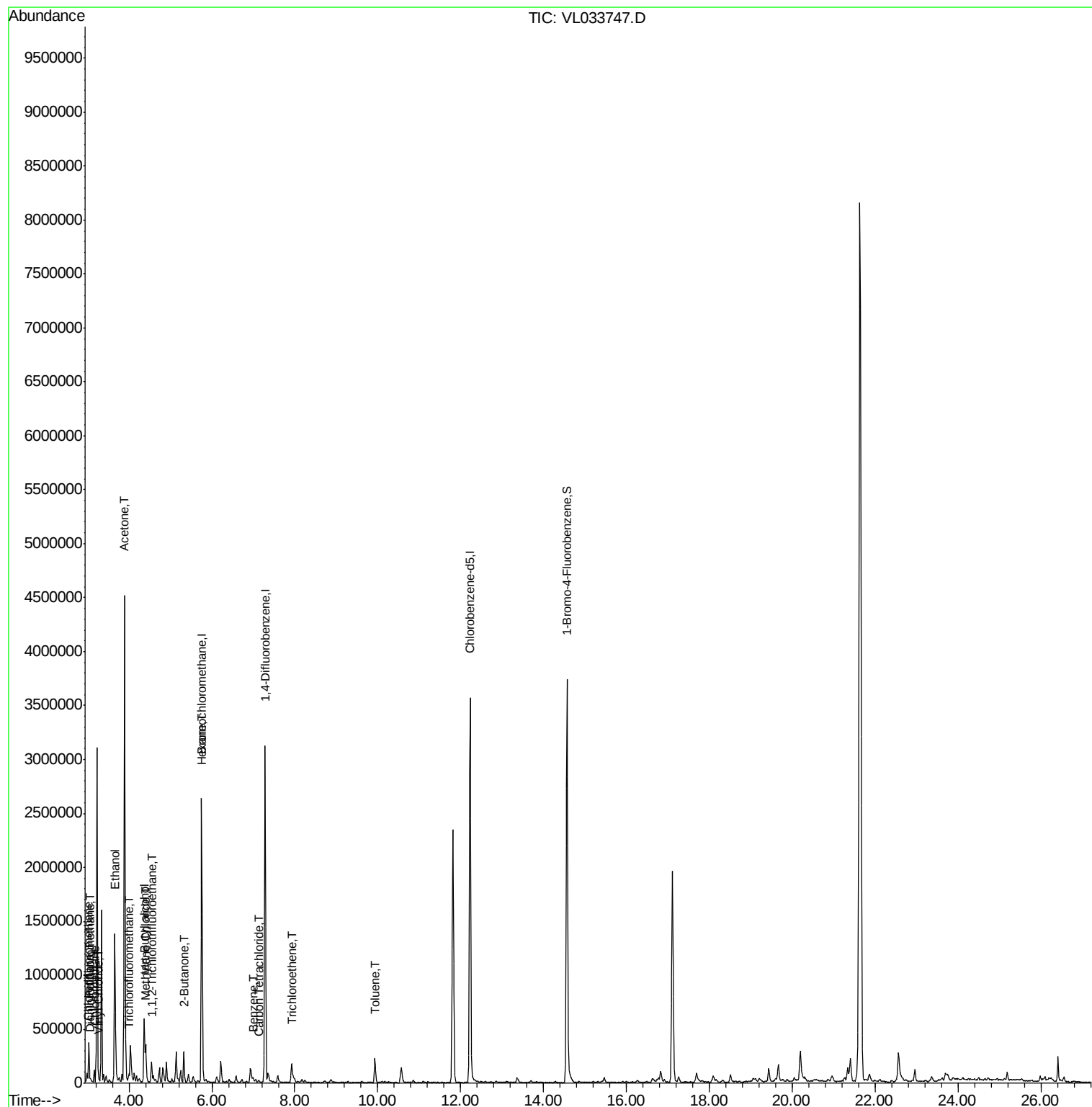
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL052219\
Data File : VL033747.D
Acq On : 22 May 2019 16:52
Operator : SY/AP
Sample : K2929-10
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

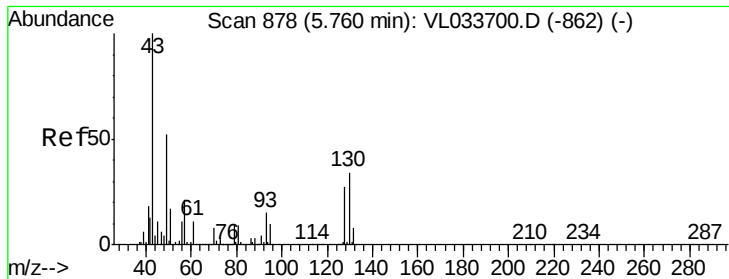
Instrument :
MSVOA_L
ClientSampleId :
BPS1-ODA-3002-04

Manual Integrations
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5/28/2019 2:50:52 AM

Quant Time: May 23 05:14:55 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL051719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May
QLast Update : Fri May 17 08:15:41 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.75 min Scan# 875

Delta R.T. -0.01 min

Lab File: VL033747.D

Acq: 22 May 2019 16:52

Instrument :

MSVOA_L

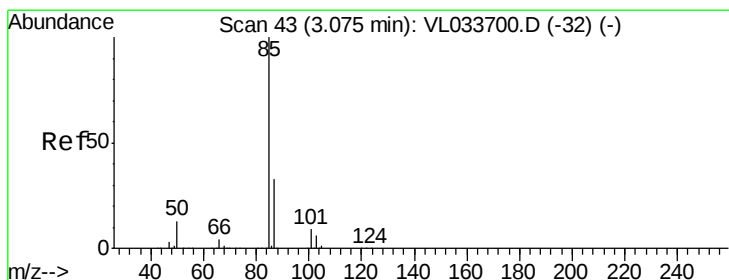
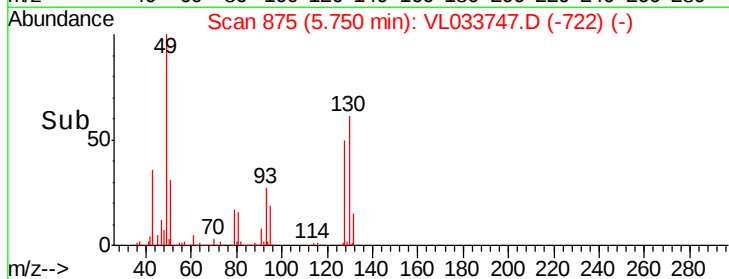
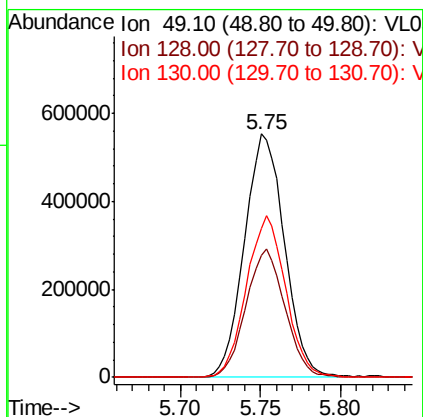
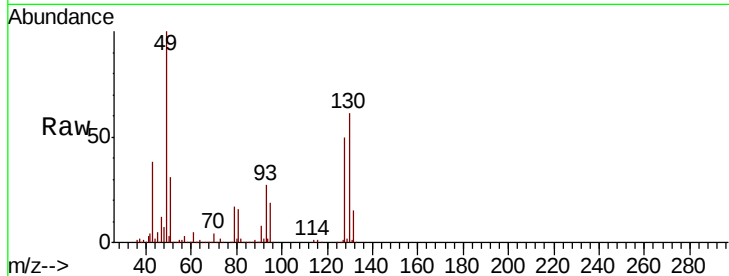
ClientSampleId :

BPS1-ODA-3002-04

Tot Ion:	49	Resp:	946524
Ion	Ratio	Lower	Upper
49	100		
128	51.7	25.2	75.6
130	65.6	32.5	97.5

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#2

Dichlorodifluoromethane

Concen: 0.142 ppbv

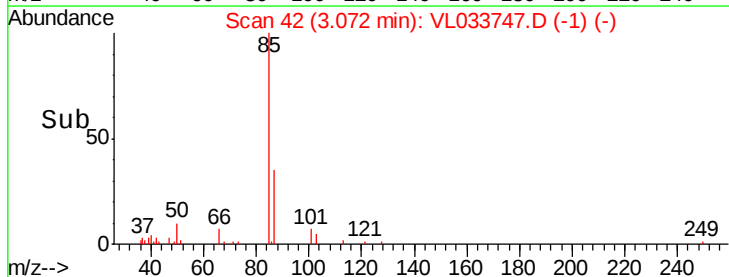
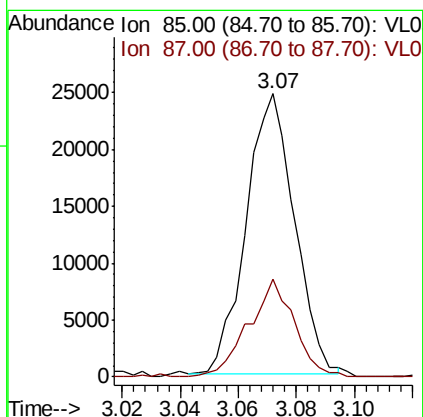
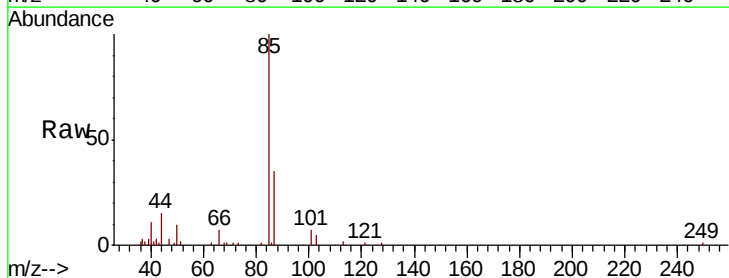
RT: 3.07 min Scan# 42

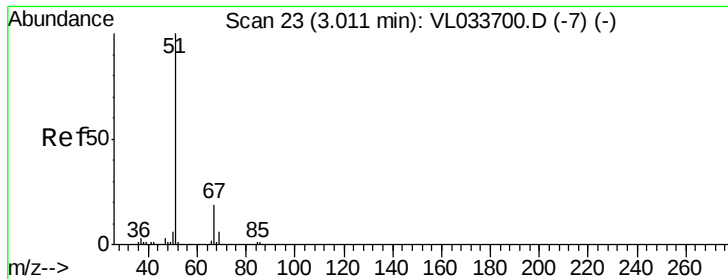
Delta R.T. -0.00 min

Lab File: VL033747.D

Acq: 22 May 2019 16:52

Tgt Ion:	85	Resp:	28406
Ion	Ratio	Lower	Upper
85	100		
87	35.1	26.3	39.5





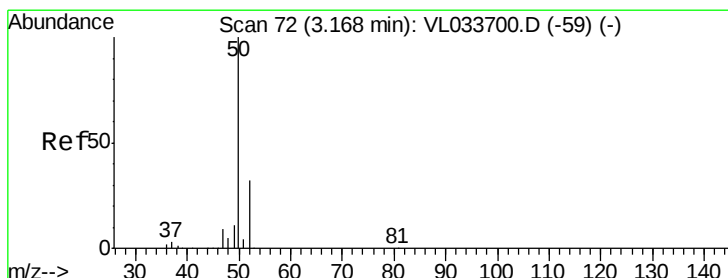
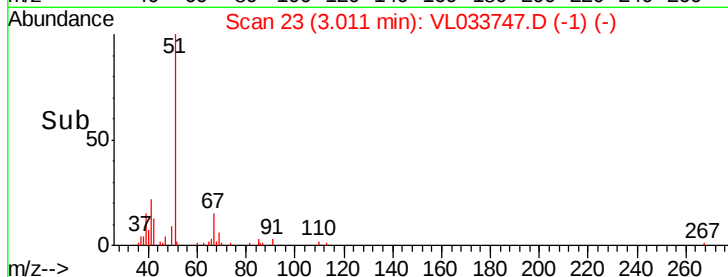
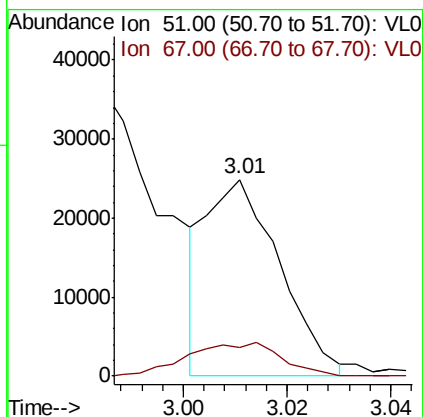
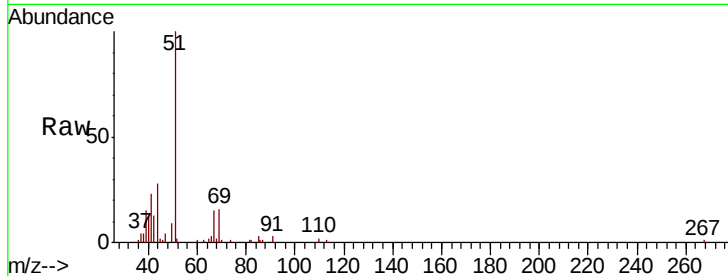
#3
Chlorodifluoromethane
Concen: 0.226 ppbv
RT: 3.01 min Scan# 23
Delta R.T. 0.00 min
Lab File: VL033747.D
Acq: 22 May 2019 16:52

Instrument :
MSVOA_L
ClientSampleId :
BPS1-ODA-3002-04

Tot Ion	51	Resp	24454
Ion Ratio	100	Lower	Upper
51	100		
67	21.8	15.6	23.4

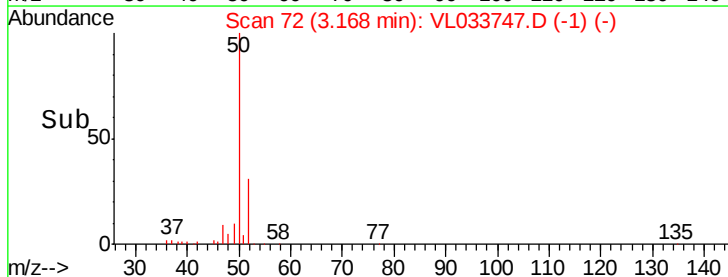
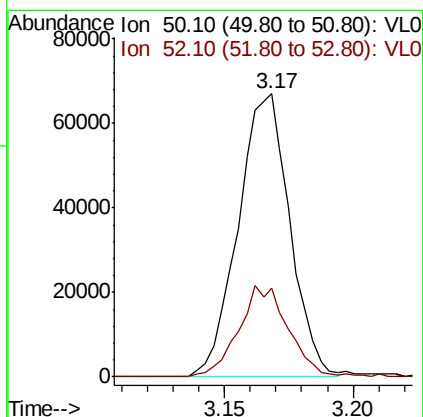
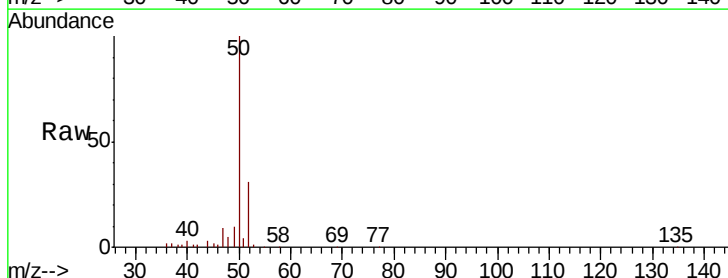
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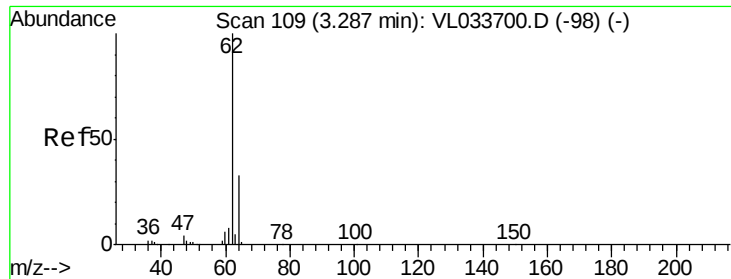
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#4
Chloromethane
Concen: 1.514 ppbv
RT: 3.17 min Scan# 72
Delta R.T. 0.00 min
Lab File: VL033747.D
Acq: 22 May 2019 16:52

Tgt Ion	50	Resp	93910
Ion Ratio	100	Lower	Upper
50	100		
52	31.3	25.7	38.5





#5

Vinyl Chloride

Concen: 0.036 ppbv

RT: 3.28 min Scan# 107

Delta R.T. -0.01 min

Lab File: VL033747.D

Acq: 22 May 2019 16:52

Instrument :

MSVOA_L

ClientSampleId :

BPS1-ODA-3002-04

Tot Ion: 62 Resp: 2284

Ion Ratio Lower Upper

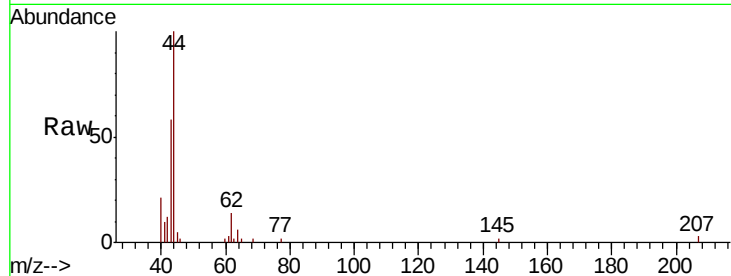
62 100

64 40.5 26.4 39.6#

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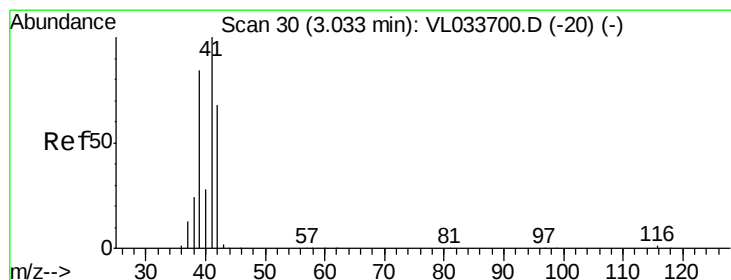
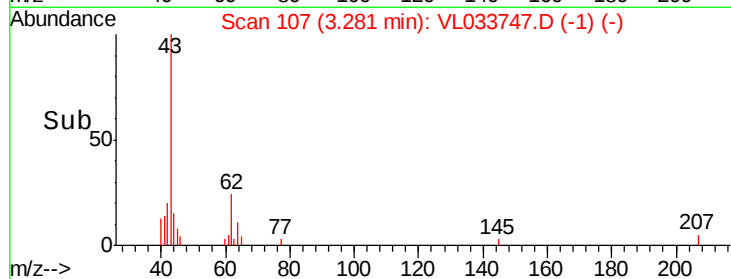
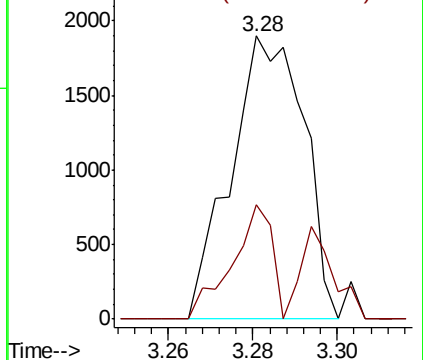
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#9

Propene

Concen: 2.938 ppbv

RT: 3.03 min Scan# 29

Delta R.T. -0.00 min

Lab File: VL033747.D

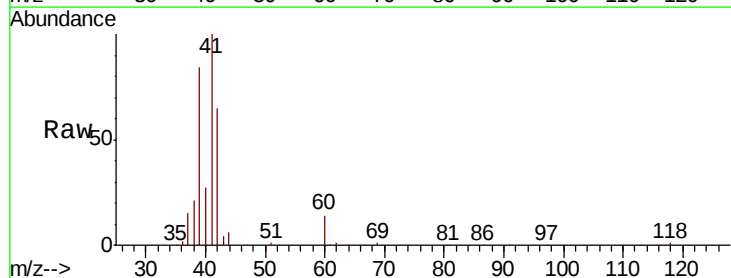
Acq: 22 May 2019 16:52

Tgt Ion: 41 Resp: 135509

Ion Ratio Lower Upper

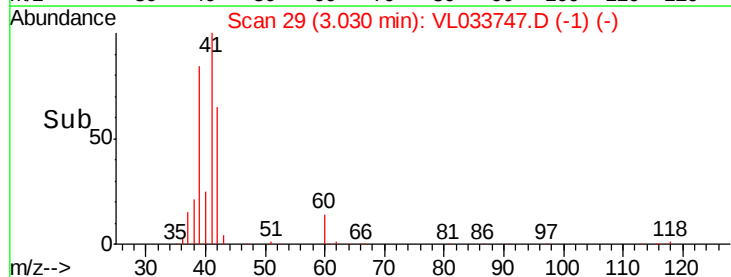
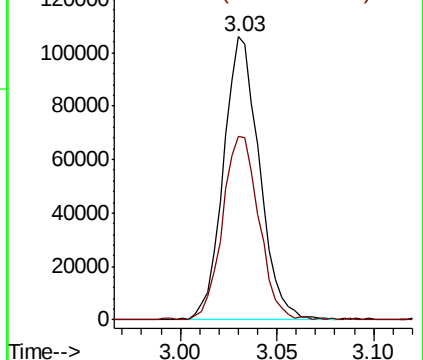
41 100

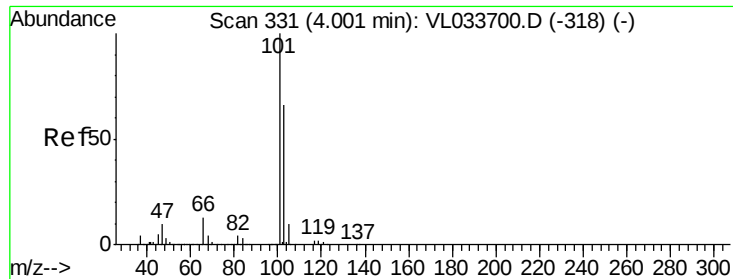
42 67.0 56.1 84.1



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#11

Trichlorofluoromethane

Concen: 0.236 ppbv

RT: 4.00 min Scan# 331

Delta R.T. 0.00 min

Lab File: VL033747.D

Acq: 22 May 2019 16:52

Instrument :

MSVOA_L

ClientSampleId :

BPS1-ODA-3002-04

Tot Ion:101 Resp: 44948

Ion Ratio Lower Upper

101 100

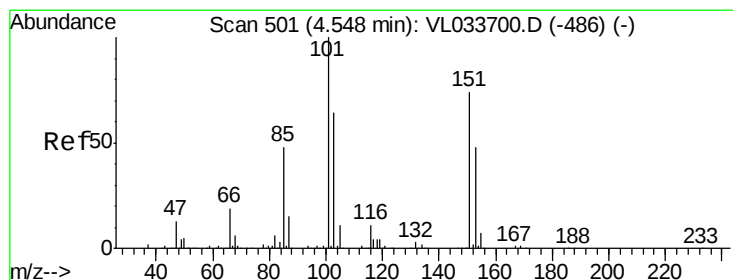
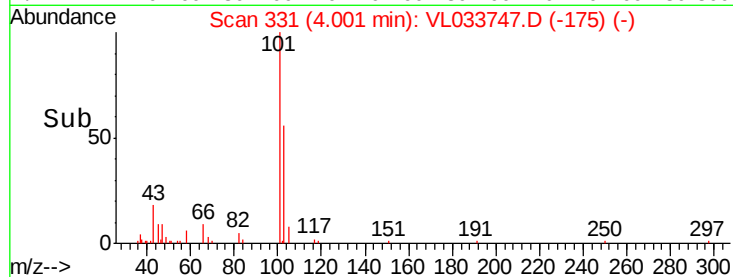
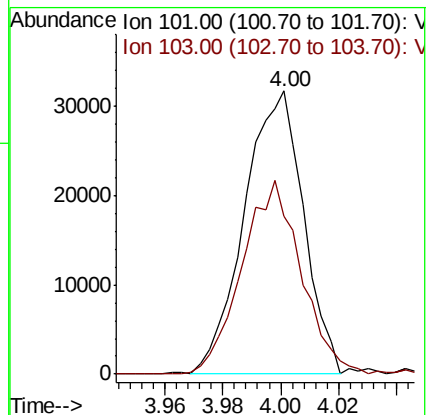
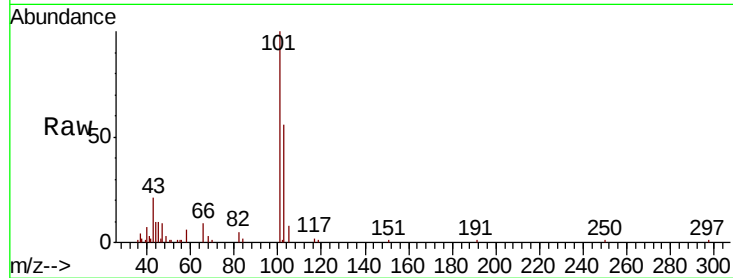
103 55.3 52.6 78.8

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#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.486 ppbv

RT: 4.54 min Scan# 499

Delta R.T. -0.01 min

Lab File: VL033747.D

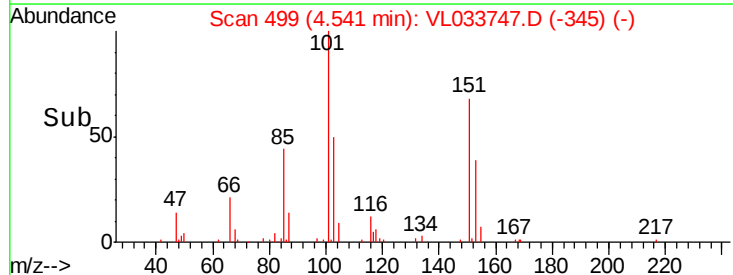
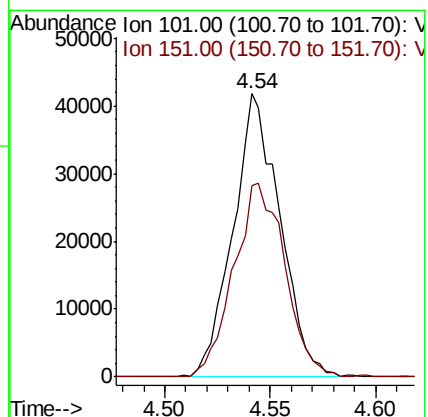
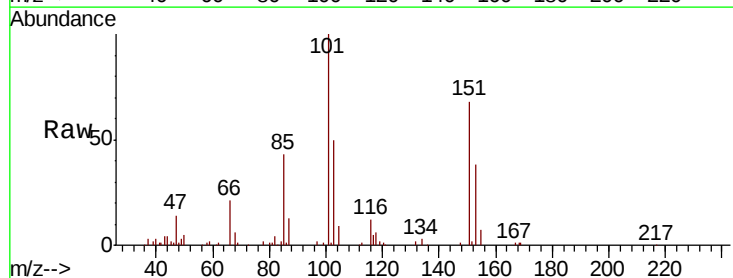
Acq: 22 May 2019 16:52

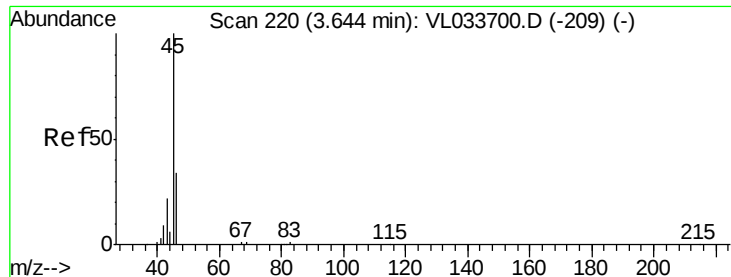
Tgt Ion:101 Resp: 64610

Ion Ratio Lower Upper

101 100

151 74.5 58.2 87.4





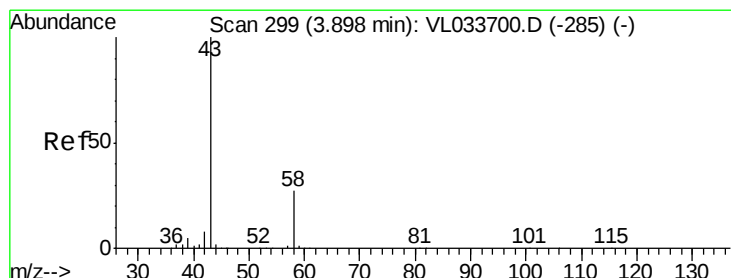
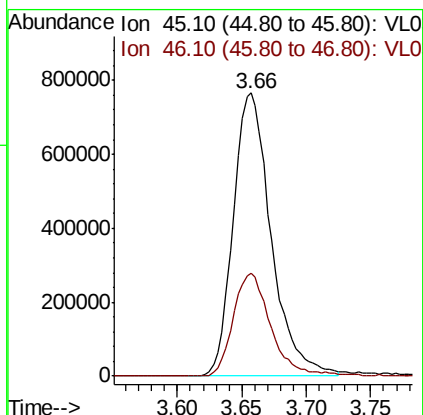
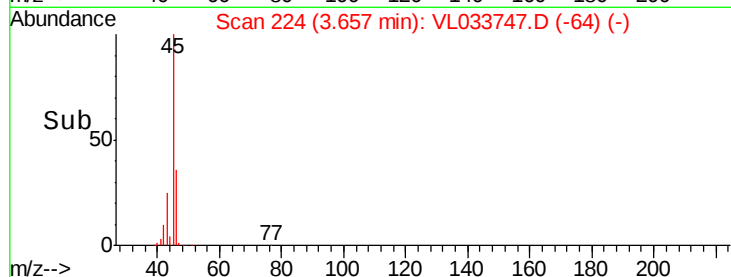
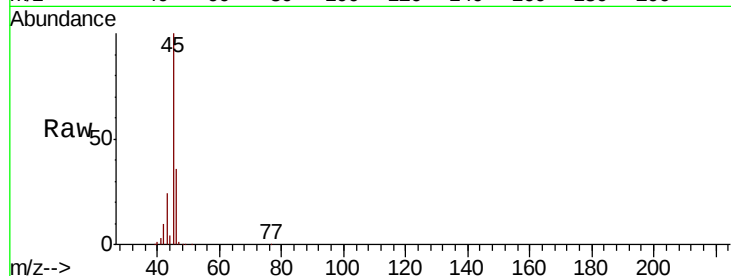
#13
Ethanol
Concen: 104.920 ppbv
RT: 3.66 min Scan# 224
Delta R.T. 0.01 min
Lab File: VL033747.D
Acq: 22 May 2019 16:52

Instrument :
MSVOA_L
ClientSampleId :
BPS1-ODA-3002-04

Tot Ion: 45 Resp: 1563857
Ion Ratio Lower Upper
45 100
46 36.5 14.8 59.0

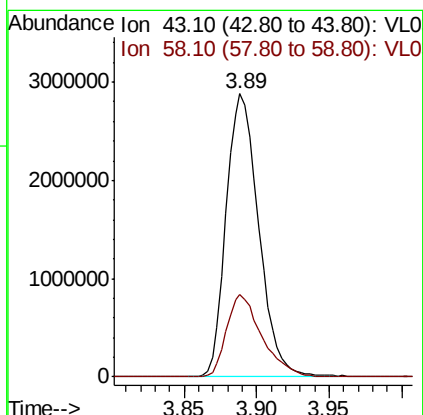
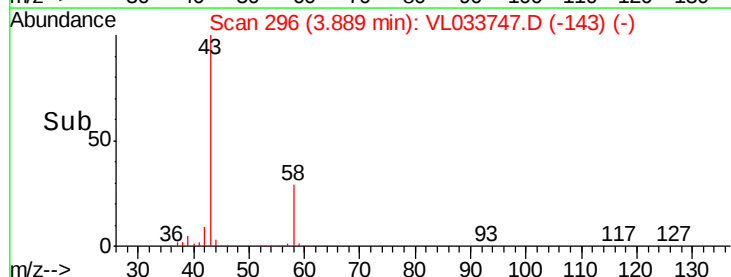
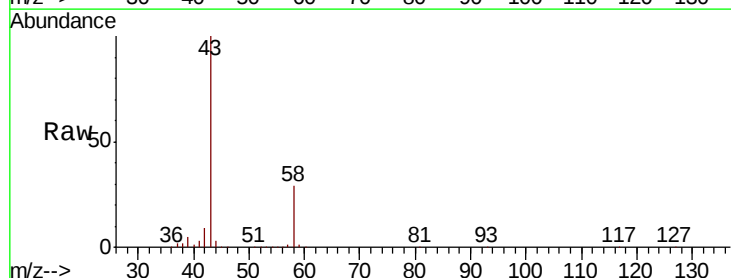
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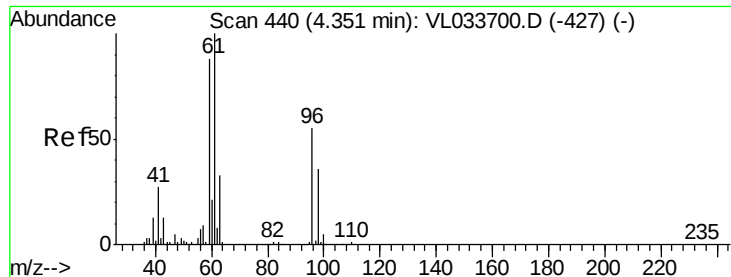
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#15
Acetone
Concen: 34.130 ppbv
RT: 3.89 min Scan# 296
Delta R.T. -0.01 min
Lab File: VL033747.D
Acq: 22 May 2019 16:52

Tgt Ion: 43 Resp: 4482142
Ion Ratio Lower Upper
43 100
58 31.7 21.3 31.9





#17

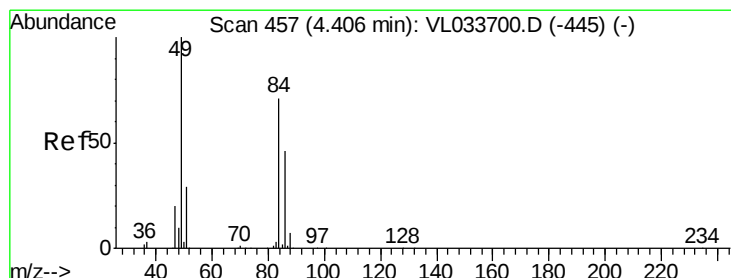
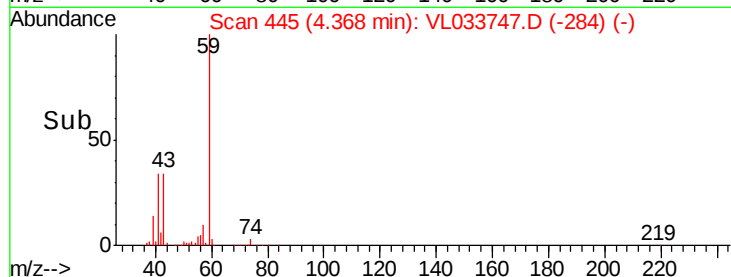
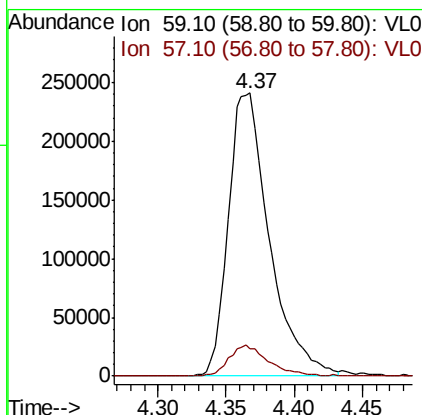
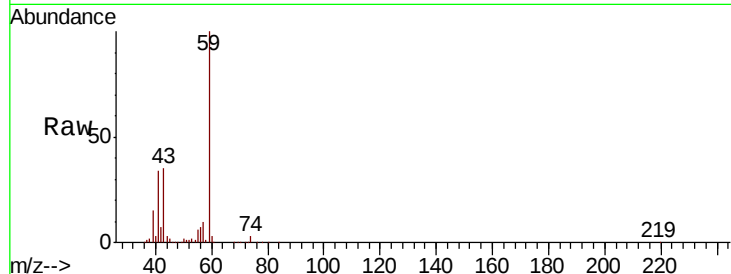
tert-Butyl alcohol
 Concen: 4.753 ppbv
 RT: 4.37 min Scan# 445
 Delta R.T. 0.02 min
 Lab File: VL033747.D
 Acq: 22 May 2019 16:52

Instrument :
 MSVOA_L
 ClientSampleId :
 BPS1-ODA-3002-04

Tot Ion: 59 Resp: 504690
 Ion Ratio Lower Upper
 59 100
 57 10.8 8.4 12.6

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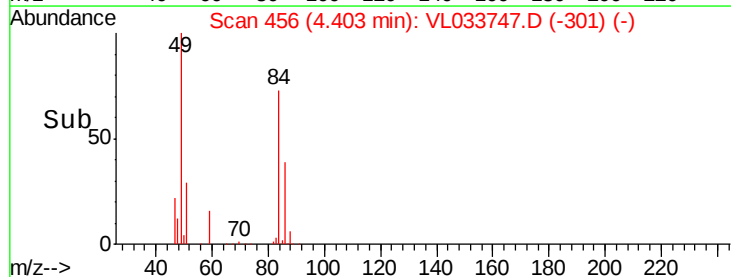
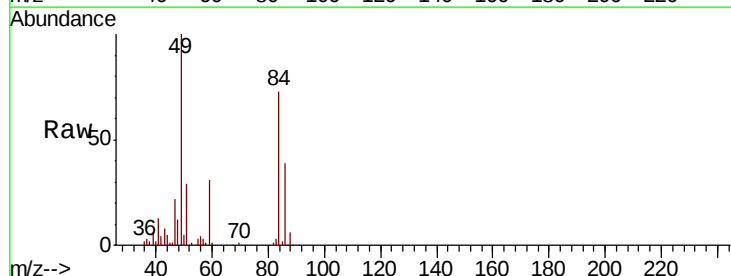
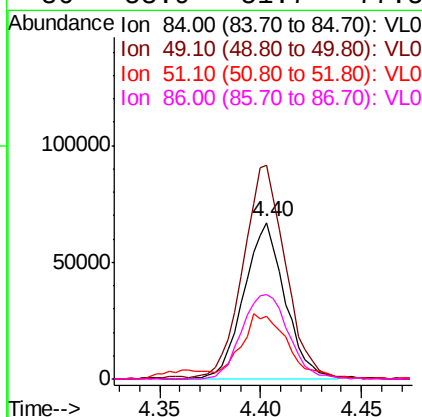
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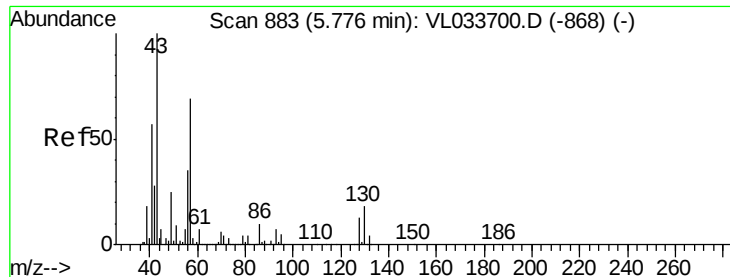


#20

Methylene Chloride
 Concen: 1.886 ppbv
 RT: 4.40 min Scan# 456
 Delta R.T. -0.00 min
 Lab File: VL033747.D
 Acq: 22 May 2019 16:52

Tgt Ion: 84 Resp: 95387
 Ion Ratio Lower Upper
 84 100
 49 135.2 112.8 169.2
 51 38.7 33.4 50.0
 86 53.9 51.7 77.5





#26

Hexane

Concen: 0.972 ppbv

RT: 5.77 min Scan# 880

Delta R.T. -0.01 min

Lab File: VL033747.D

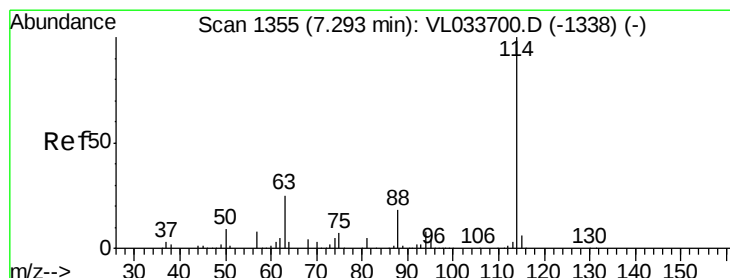
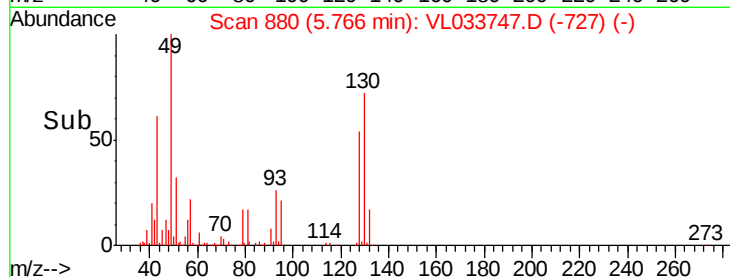
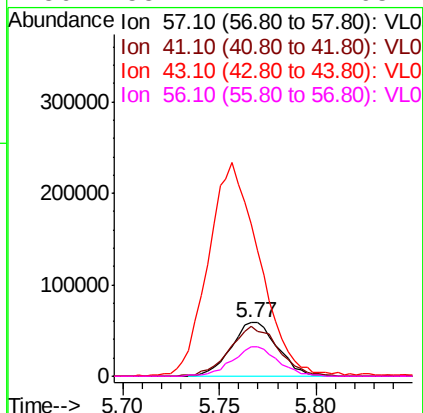
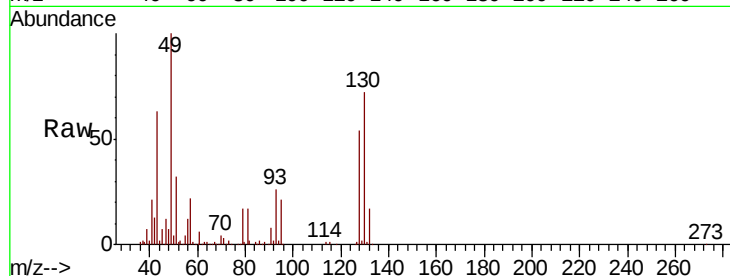
Acq: 22 May 2019 16:52

Instrument :
MSVOA_L
ClientSampleId :
BPS1-ODA-3002-04

Tot Ion	57	Resp	96379
Ion	Ratio	Lower	Upper
57	100		
41	100.2	69.8	104.6
43	447.6	181.8	272.6#
56	55.4	42.1	63.1

Manual Integrations
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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

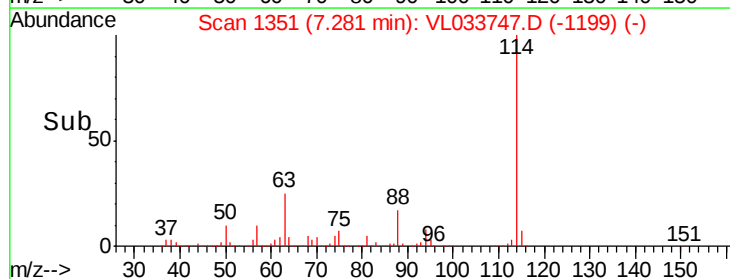
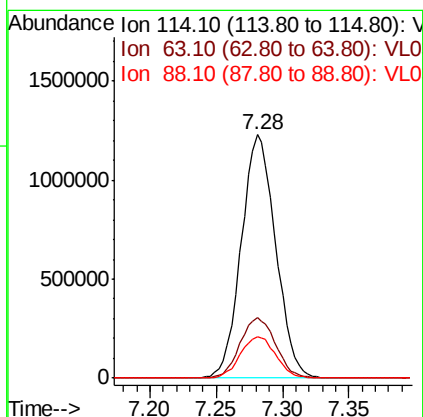
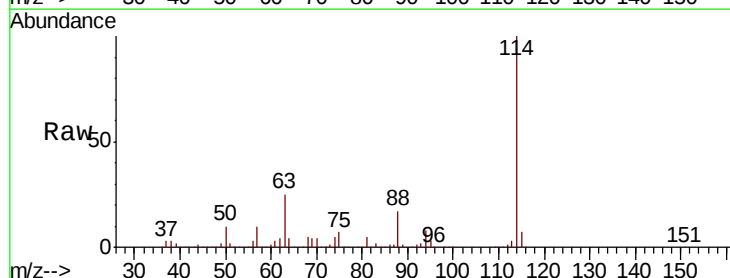
RT: 7.28 min Scan# 1351

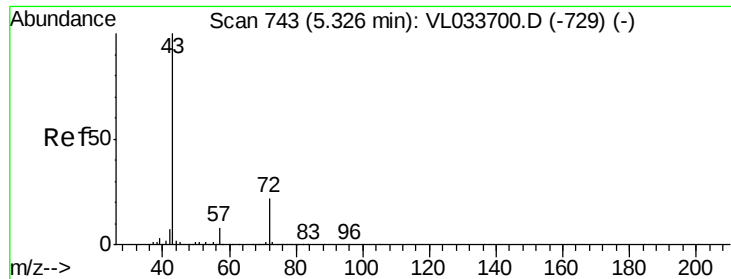
Delta R.T. -0.01 min

Lab File: VL033747.D

Acq: 22 May 2019 16:52

Tgt Ion	114	Resp	2216002
Ion	Ratio	Lower	Upper
114	100		
63	25.6	20.9	31.3
88	17.7	14.3	21.5





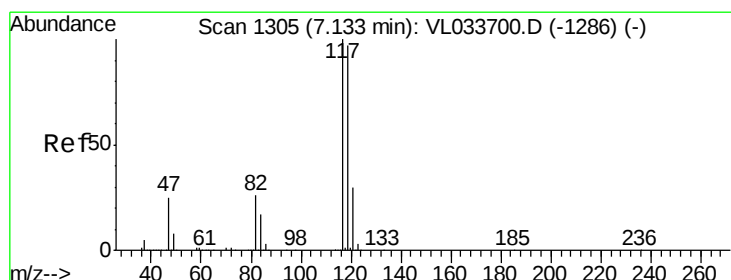
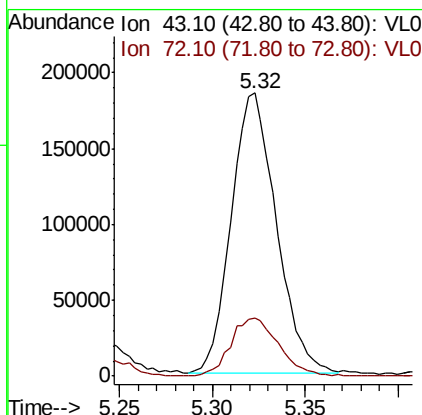
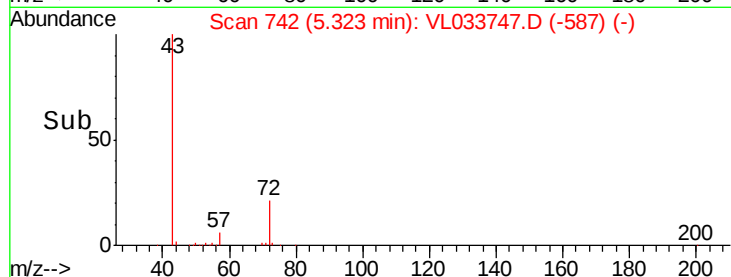
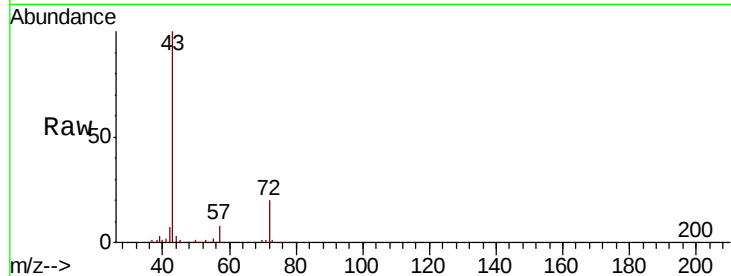
#34
2-Butanone
Concen: 2.269 ppbv
RT: 5.32 min Scan# 742
Delta R.T. -0.00 min
Lab File: VL033747.D
Acq: 22 May 2019 16:52

Instrument :
MSVOA_L
ClientSampleId :
BPS1-ODA-3002-04

Tot Ion: 43 Resp: 311694
Ion Ratio Lower Upper
43 100
72 22.5 17.8 26.6

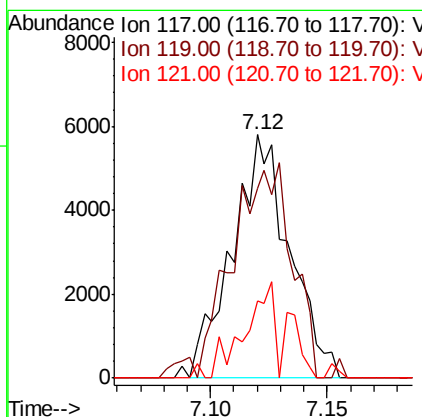
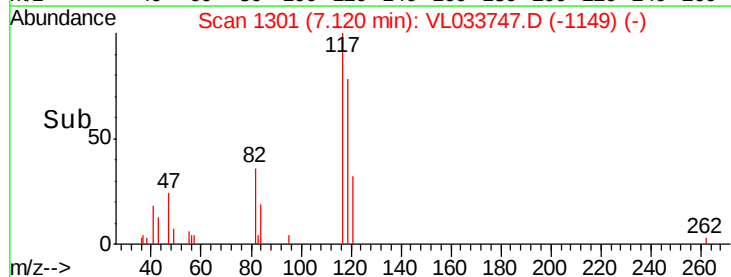
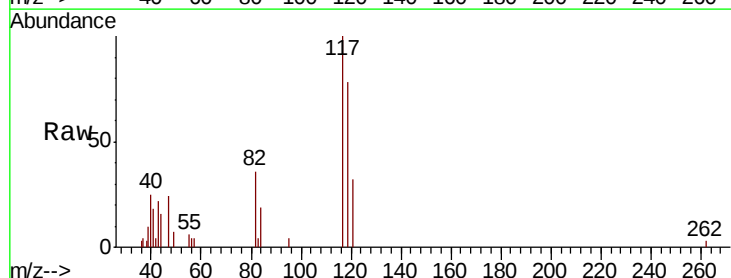
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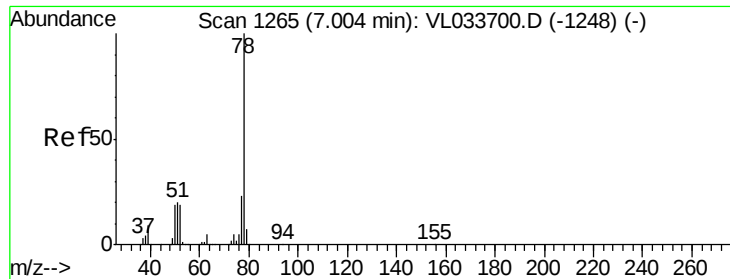
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5/28/2019 2:50:52 AM



#35
Carbon Tetrachloride
Concen: 0.056 ppbv m
RT: 7.12 min Scan# 1301
Delta R.T. -0.01 min
Lab File: VL033747.D
Acq: 22 May 2019 16:52

Tgt Ion: 117 Resp: 9977
Ion Ratio Lower Upper
117 100
119 77.8 77.2 115.8
121 32.0 24.1 36.1





#36

Benzene

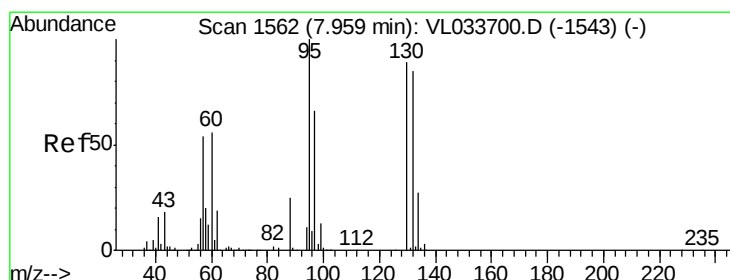
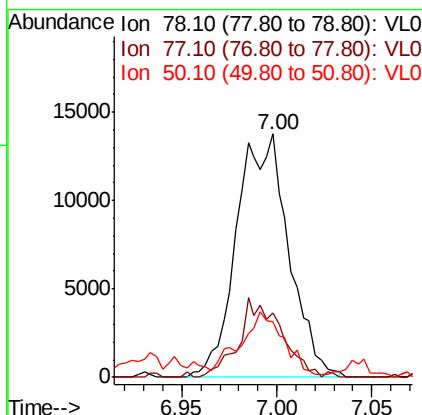
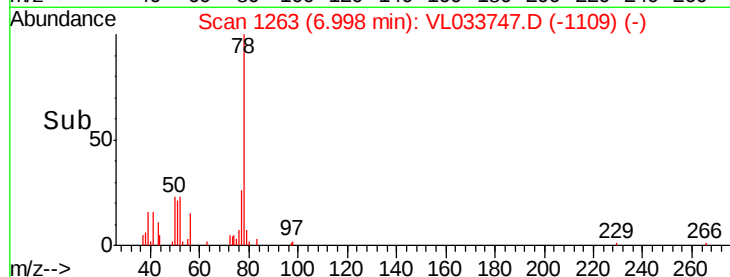
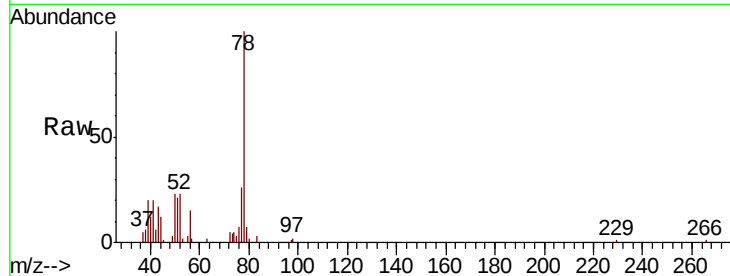
Concen: 0.130 ppbv m
RT: 7.00 min Scan# 1263
Delta R.T. -0.01 min
Lab File: VL033747.D
Acq: 22 May 2019 16:52

Instrument :
MSVOA_L
ClientSampleId :
BPS1-ODA-3002-04

Tot Ion	Ratio	Lower	Upper
78	100		
77	26.2	18.4	27.6
50	22.9	15.5	23.3

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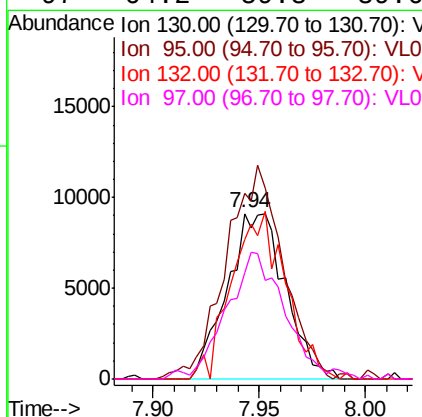
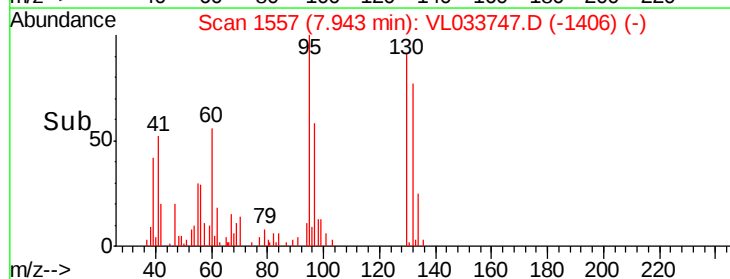
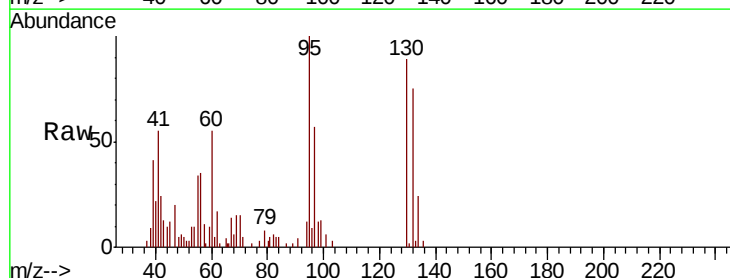


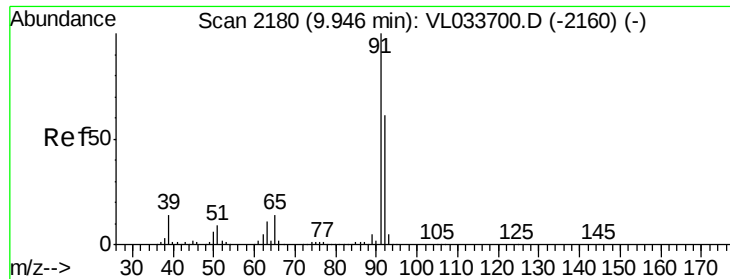
#38

Trichloroethene

Concen: 0.231 ppbv m
RT: 7.94 min Scan# 1557
Delta R.T. -0.02 min
Lab File: VL033747.D
Acq: 22 May 2019 16:52

Tgt Ion	Ratio	Lower	Upper
130	100		
95	112.8	90.2	135.4
132	84.5	76.4	114.6
97	64.2	59.8	89.6





#53

Toluene

Concen: 0.718 ppbv

RT: 9.93 min Scan# 2176

Delta R.T. -0.01 min

Lab File: VL033747.D

Acq: 22 May 2019 16:52

Instrument :

MSVOA_L

ClientSampleId :

BPS1-ODA-3002-04

Tot Ion: 91 Resp: 156207

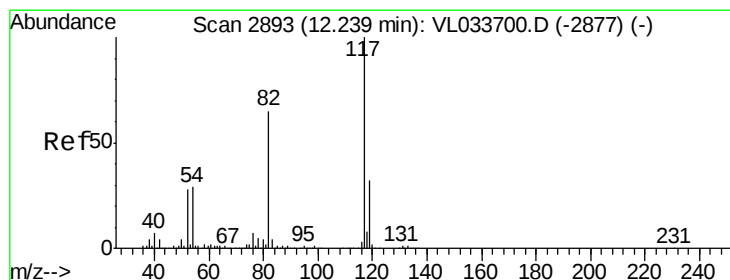
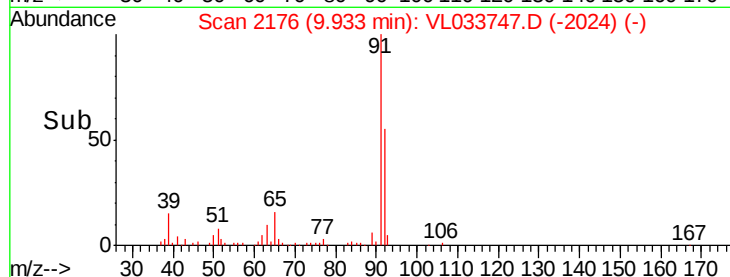
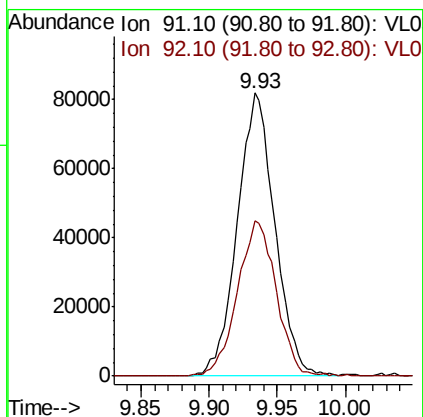
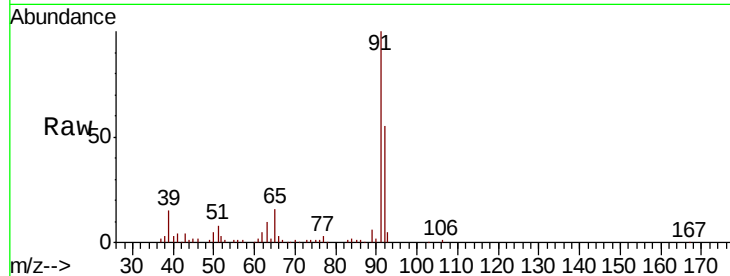
Ion Ratio Lower Upper

91 100

92 56.7 47.6 71.4

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.23 min Scan# 2889

Delta R.T. -0.01 min

Lab File: VL033747.D

Acq: 22 May 2019 16:52

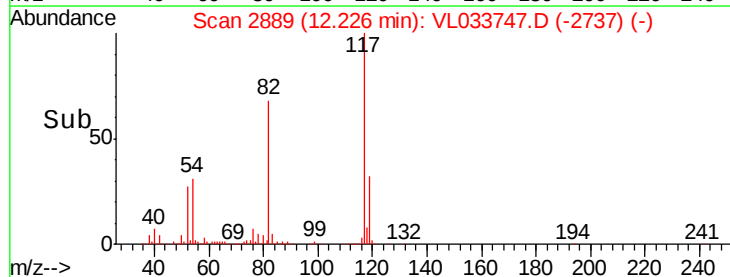
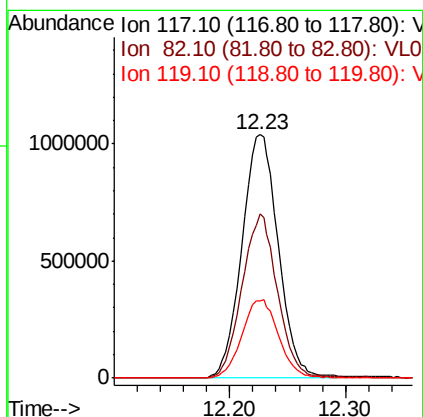
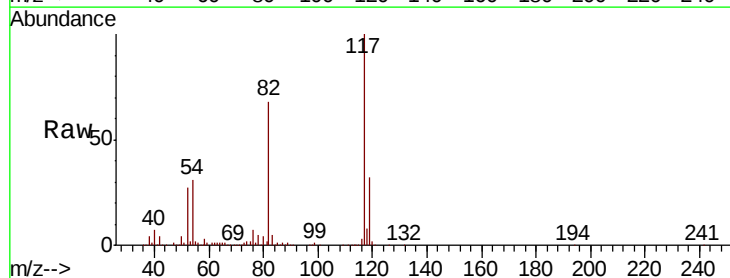
Tgt Ion: 117 Resp: 2273345

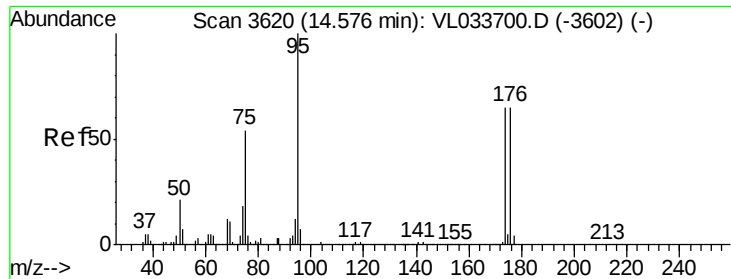
Ion Ratio Lower Upper

117 100

82 66.3 49.4 74.0

119 32.8 24.9 37.3





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.651 ppbv
 RT: 14.56 min Scan# 3616
 Delta R.T. -0.01 min
 Lab File: VL033747.D
 Acq: 22 May 2019 16:52

Instrument :
 MSVOA_L
 ClientSampleId :
 BPS1-ODA-3002-04

Tot Ion	Ion	Ratio	Lower	Upper
95	100			
174	67.6	53.9	80.9	
175	4.8	3.8	5.8	

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