

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051419\
 Data File : VL033694.D
 Acq On : 14 May 2019 16:58
 Operator : SY/AP
 Sample : K2730-02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS02

Manual Integrations
 APPROVED

MMDadoda
 5/16/2019 5:41:12 AM

Quant Time: May 15 22:25:49 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon May 0
 QLast Update : Mon May 06 15:19:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	989977	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2593894	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2452823	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	2178162	10.83	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	108.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	30947	0.133	ppbv	96
4) Chloromethane	3.17	50	30390	0.409	ppbv	98
9) Propene	3.05	41	1570147m	28.808	ppbv	
10) Heptane	8.25	43	36896m	0.274	ppbv	
11) Trichlorofluoromethane	4.01	101	19589	0.090	ppbv #	78
13) Ethanol	3.66	45	303561	18.555	ppbv	98
15) Acetone	3.89	43	6503780	44.160	ppbv #	74
17) tert-Butyl alcohol	4.37	59	96994	0.867	ppbv #	72
19) Isopropyl Alcohol	4.04	45	568203	6.280	ppbv #	93
20) Methylene Chloride	4.41	84	27340	0.489	ppbv	91
26) Hexane	5.79	57	683878	6.640	ppbv #	40
27) Carbon Disulfide	4.62	76	89678	0.637	ppbv	95
30) Cyclohexane	7.25	84	5920989	68.454	ppbv	90
34) 2-Butanone	5.33	43	393043	2.366	ppbv	96
36) Benzene	7.00	78	240770	1.035	ppbv	98
53) Toluene	9.94	91	262040	1.043	ppbv	97
58) Ethyl Benzene	12.86	91	143903	0.450	ppbv	96
59) m/p-Xylene	13.11	91	509216	1.807	ppbv	98
60) o-Xylene	13.84	91	228708	0.802	ppbv	97
62) Isopropylbenzene	14.82	105	1084531	2.786	ppbv	100
73) 1,3,5-Trimethylbenzene	16.15	105	82287	0.254	ppbv	99
74) 1,2,4-Trimethylbenzene	16.92	105	144872	0.402	ppbv #	76
79) Naphthalene	22.41	128	34120m	0.104	ppbv	

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

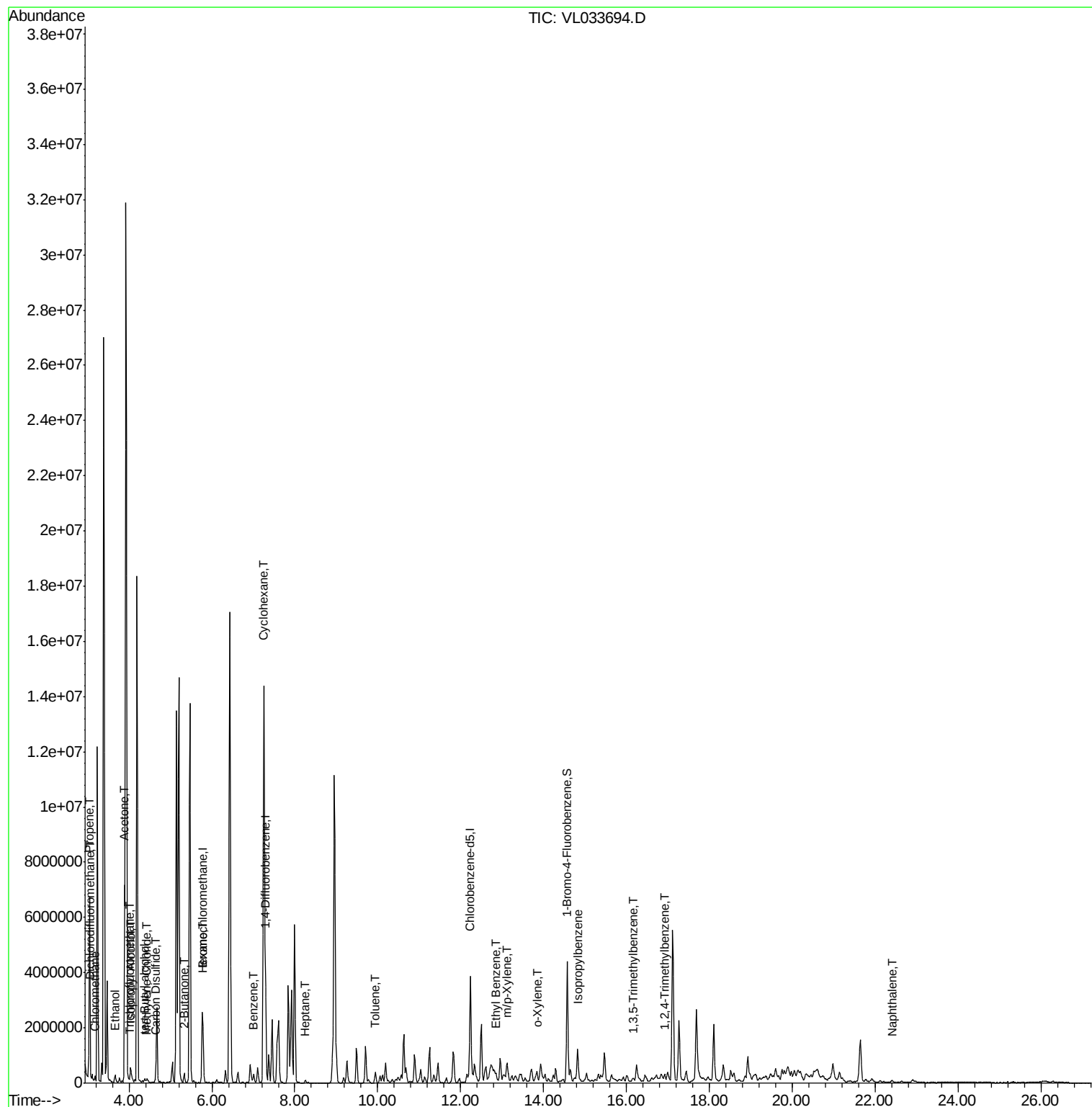
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL051419\
Data File : VL033694.D
Acq On : 14 May 2019 16:58
Operator : SY/AP
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Misc : 400ml/MSVOA L
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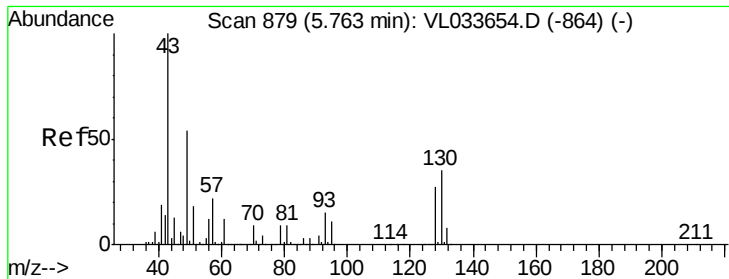
Instrument :
MSVOA_L
ClientSampleId :
SS02

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Quant Time: May 15 22:25:49 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL050619AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon May
QLast Update : Mon May 06 15:19:01 2019
Response via : Initial Calibration





#1

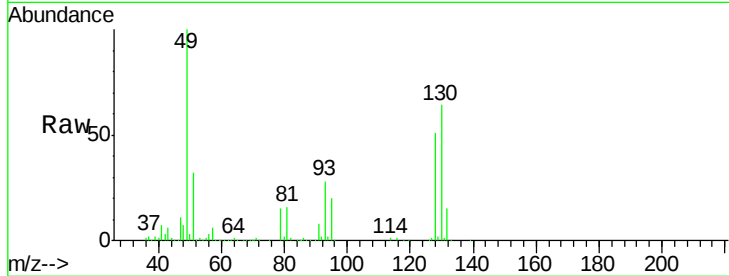
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.76 min Scan# 879
Delta R.T. 0.00 min
Lab File: VL033694.D
Acq: 14 May 2019 16:58

Instrument :
MSVOA_L
ClientSampleId :
SS02

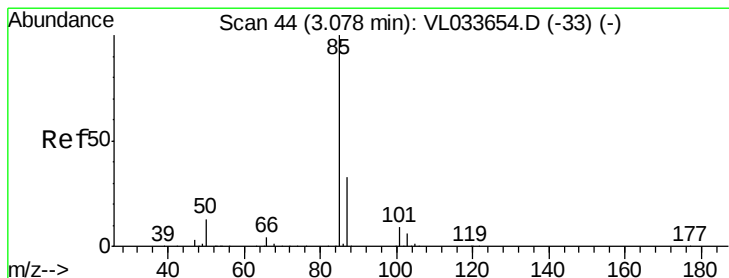
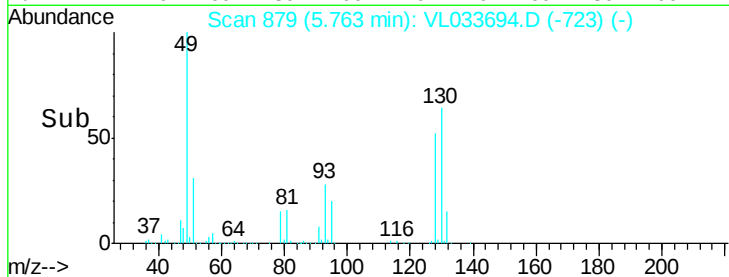
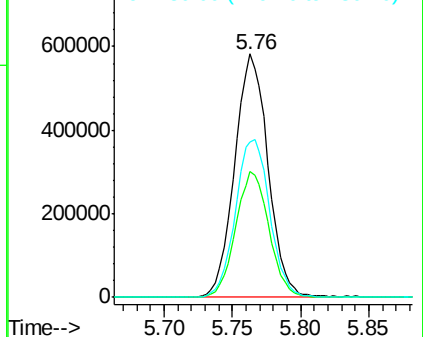
Tot Ion	Ratio	Lower	Upper
49	100		
128	52.0	24.8	74.3
130	67.1	32.1	96.5

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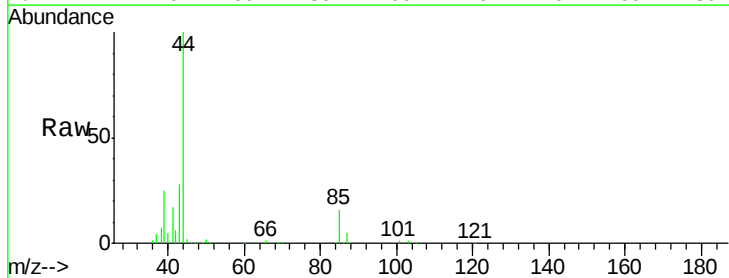
Abundance Ion 49.10 (48.80 to 49.80): VL0
Ion 128.00 (127.70 to 128.70): VL0
Ion 130.00 (129.70 to 130.70): VL0



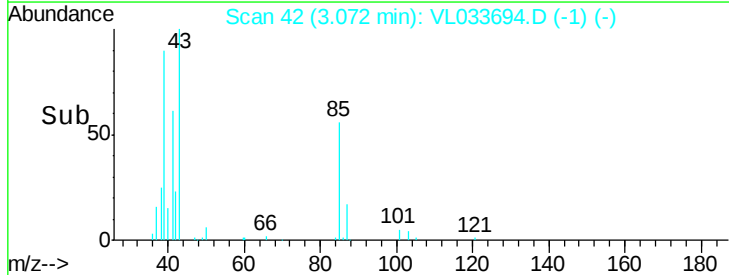
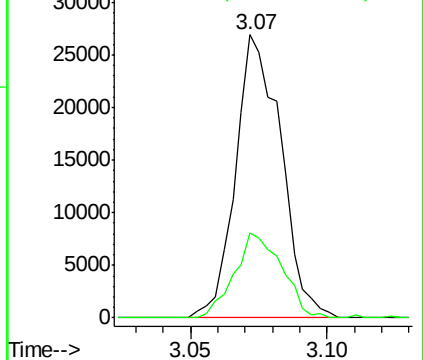
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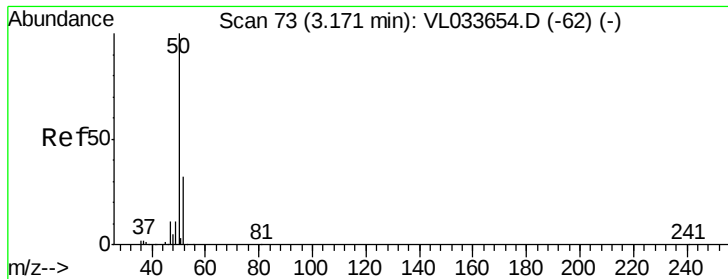
Dichlorodifluoromethane
Concen: 0.133 ppbv
RT: 3.07 min Scan# 42
Delta R.T. -0.01 min
Lab File: VL033694.D
Acq: 14 May 2019 16:58

Tgt Ion	Ratio	Lower	Upper
85	100		
87	30.1	26.0	39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0
Ion 87.00 (86.70 to 87.70): VL0





#4

Chloromethane

Concen: 0.409 ppbv

RT: 3.17 min Scan# 72

Delta R.T. -0.00 min

Lab File: VL033694.D

Acq: 14 May 2019 16:58

Instrument :

MSVOA_L

ClientSampleId :

SS02

Tot Ion: 50 Resp: 30390

Ion Ratio Lower Upper

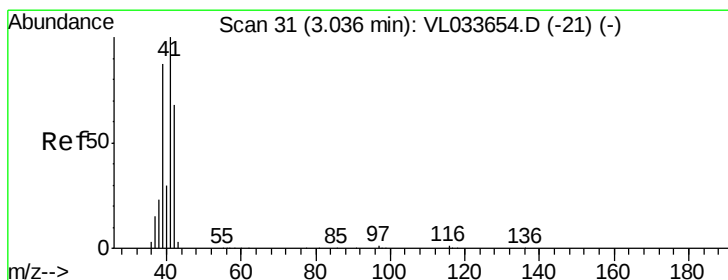
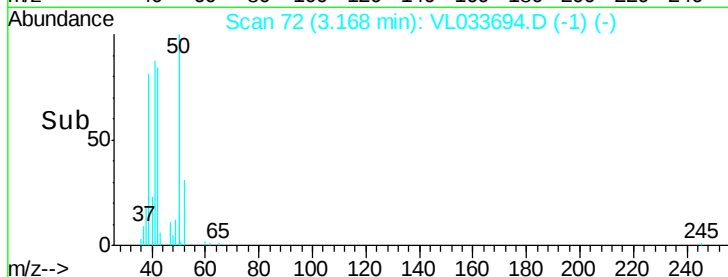
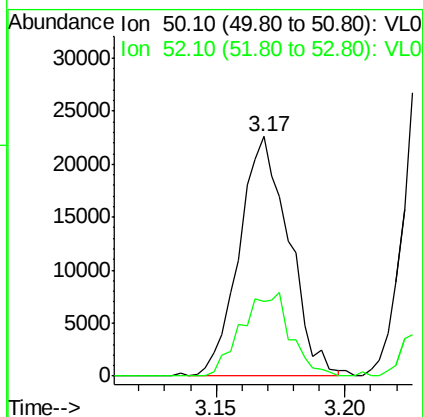
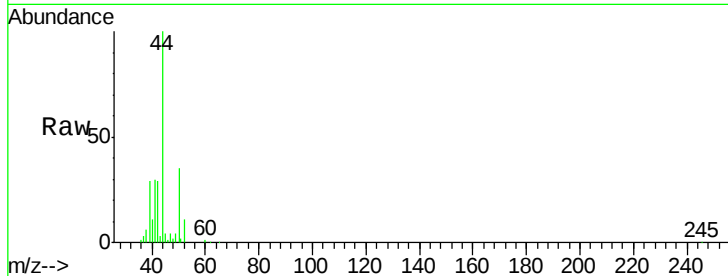
50 100

52 31.3 25.8 38.8

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#9

Propene

Concen: 28.808 ppbv m

RT: 3.05 min Scan# 34

Delta R.T. 0.01 min

Lab File: VL033694.D

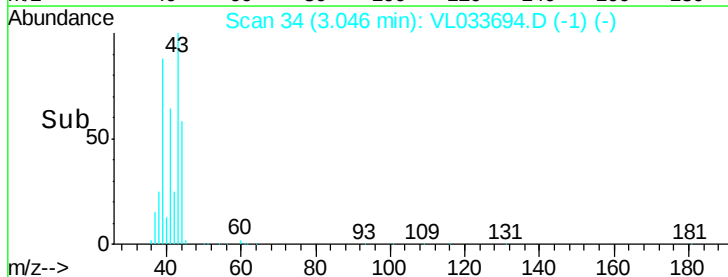
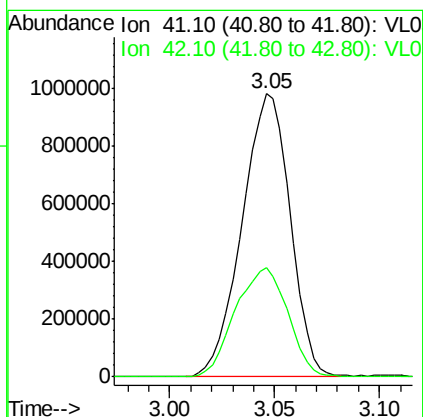
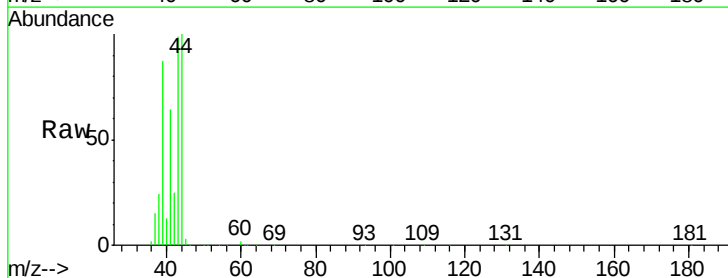
Acq: 14 May 2019 16:58

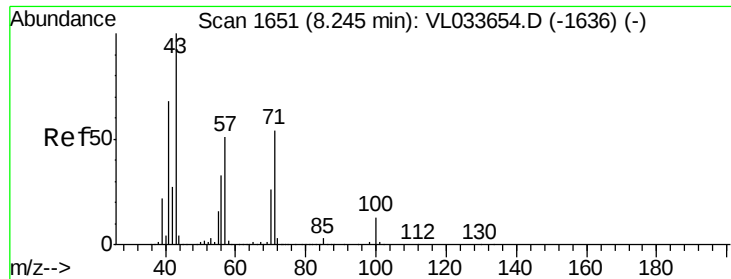
Tgt Ion: 41 Resp: 1570147

Ion Ratio Lower Upper

41 100

42 152.0 55.6 83.4#





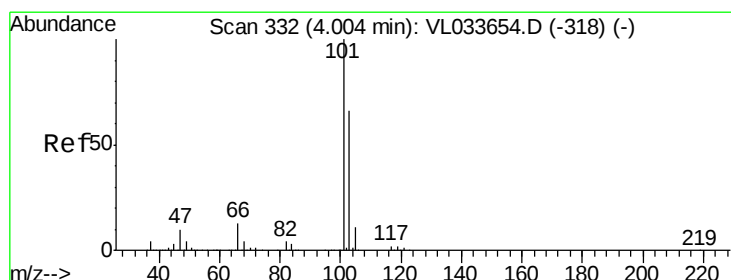
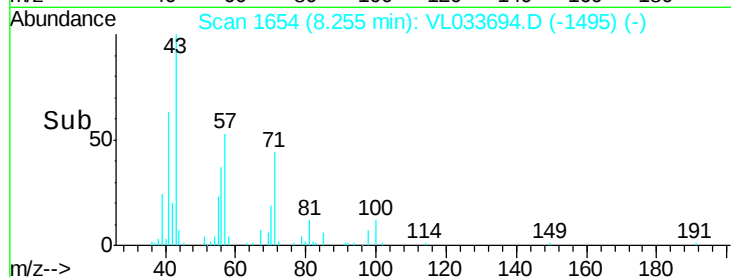
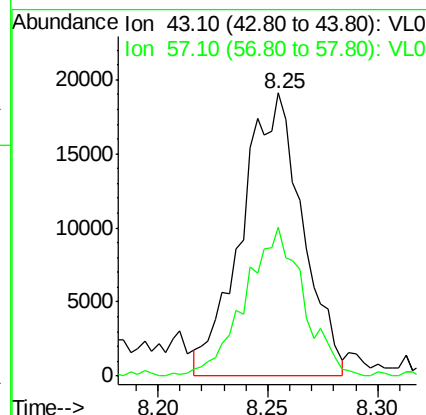
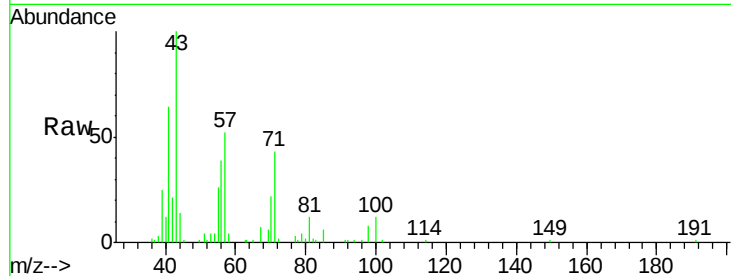
#10
 Heptane
 Concen: 0.274 ppbv m
 RT: 8.25 min Scan# 1654
 Delta R.T. 0.01 min
 Lab File: VL033694.D
 Acq: 14 May 2019 16:58

Instrument :
 MSVOA_L
 ClientSampled :
 SS02

Tot Ion: 43 Resp: 36896
 Ion Ratio Lower Upper
 43 100
 57 0.0 41.8 62.6#

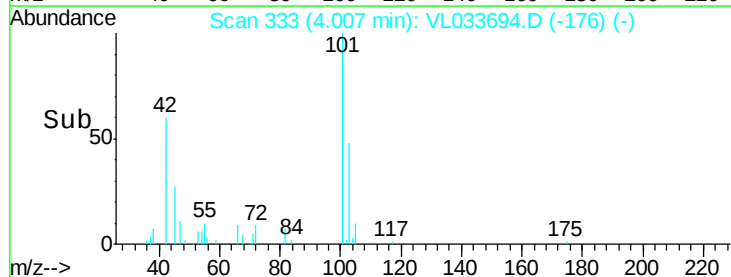
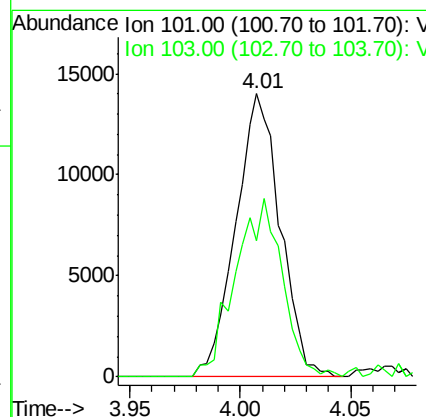
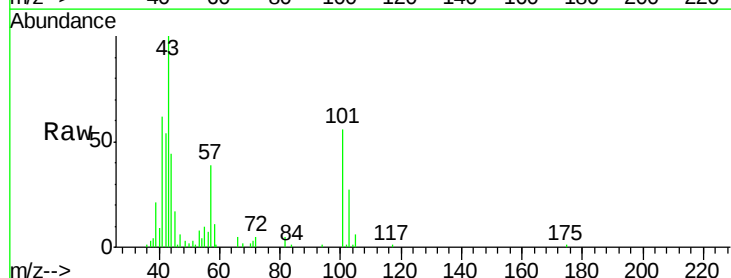
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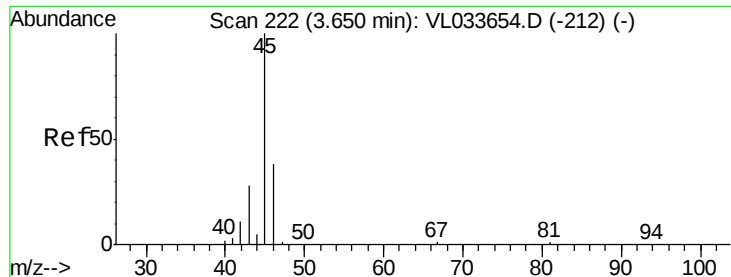
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#11
 Trichlorofluoromethane
 Concen: 0.090 ppbv
 RT: 4.01 min Scan# 333
 Delta R.T. 0.00 min
 Lab File: VL033694.D
 Acq: 14 May 2019 16:58

Tgt Ion: 101 Resp: 19589
 Ion Ratio Lower Upper
 101 100
 103 48.2 52.7 79.1#





#13

Ethanol

Concen: 18.555 ppbv

RT: 3.66 min Scan# 226

Delta R.T. 0.01 min

Lab File: VL033694.D

Acq: 14 May 2019 16:58

Instrument :

MSVOA_L

ClientSampleId :

SS02

Tot Ion: 45 Resp: 303561

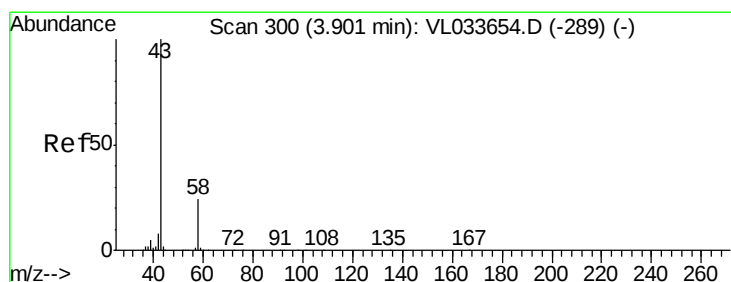
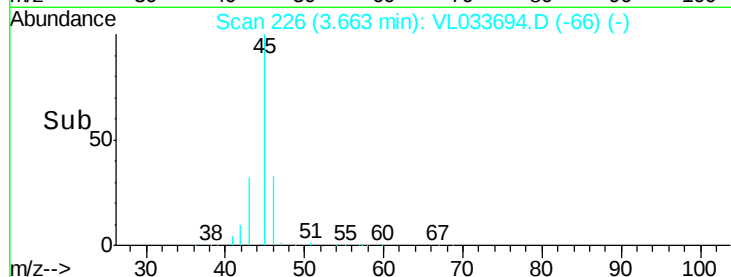
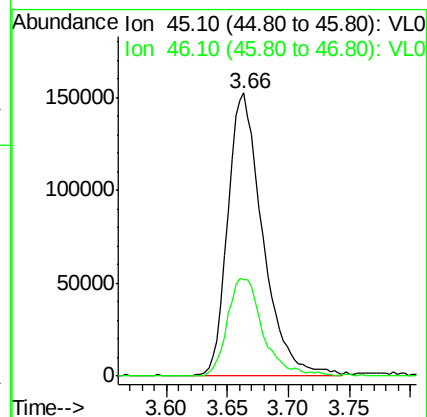
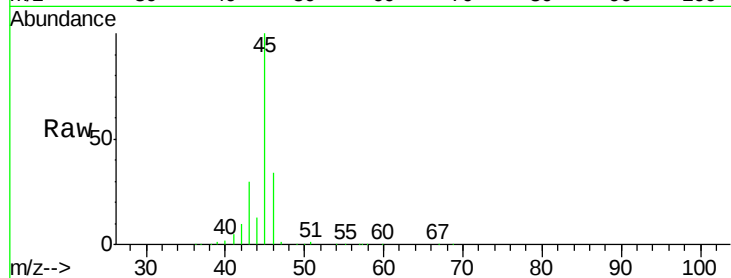
Ion Ratio Lower Upper

45 100

46 36.0 14.9 59.7

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#15

Acetone

Concen: 44.160 ppbv

RT: 3.89 min Scan# 298

Delta R.T. -0.01 min

Lab File: VL033694.D

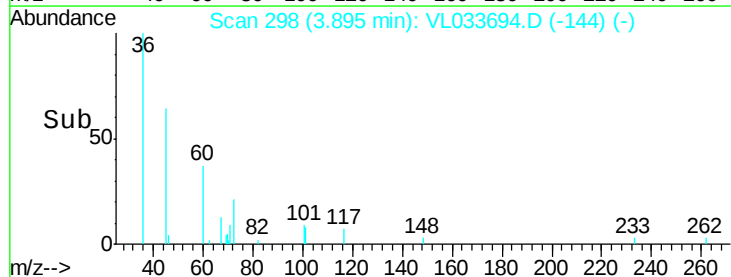
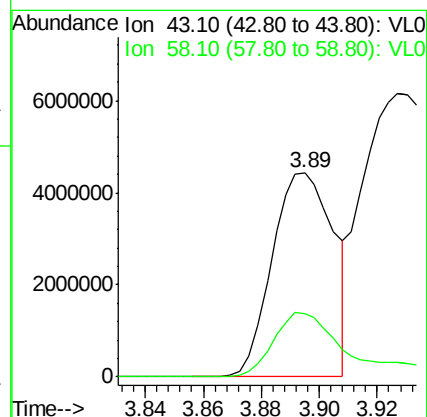
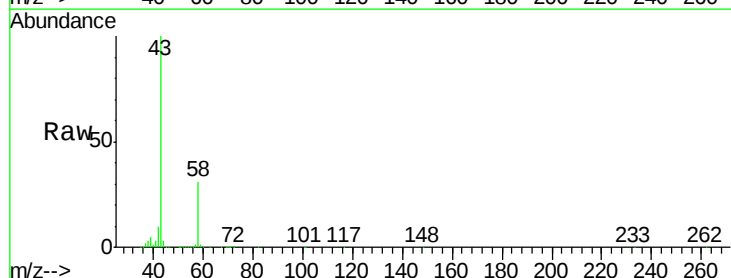
Acq: 14 May 2019 16:58

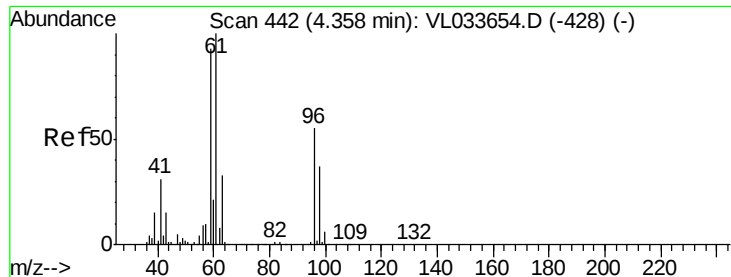
Tgt Ion: 43 Resp: 6503780

Ion Ratio Lower Upper

43 100

58 39.2 20.9 31.3#





#17

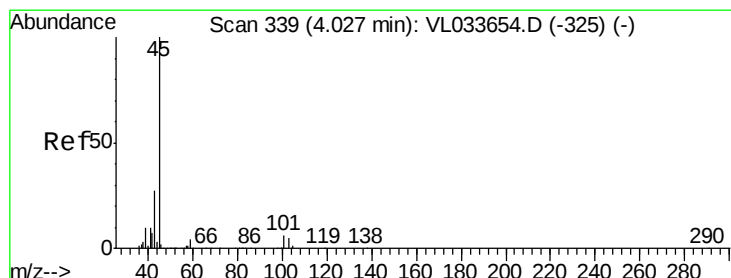
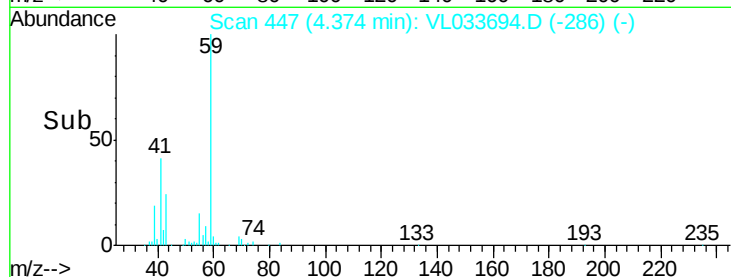
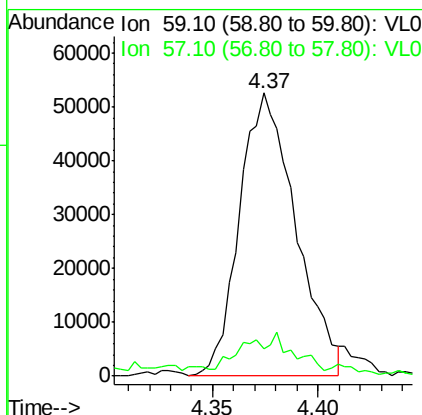
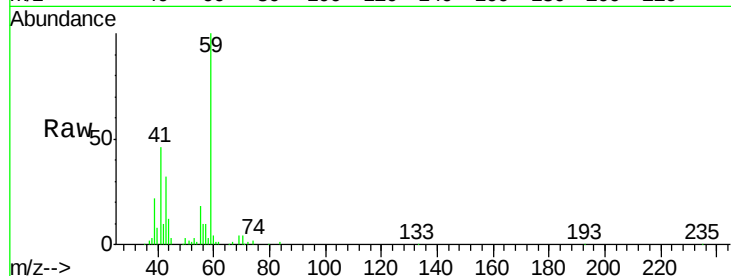
tert-Butyl alcohol
Concen: 0.867 ppbv
RT: 4.37 min Scan# 447
Delta R.T. 0.02 min
Lab File: VL033694.D
Acq: 14 May 2019 16:58

Instrument :
MSVOA_L
ClientSampled :
SS02

Tot Ion	59	Resp	96994
Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.4	12.6#

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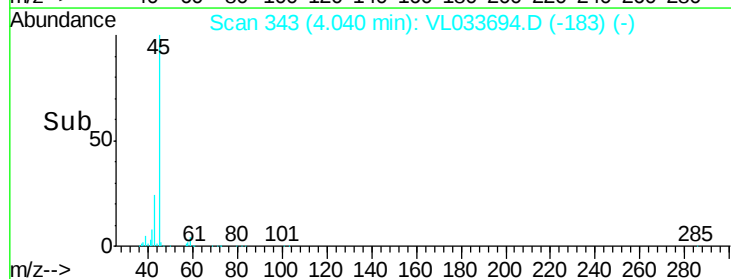
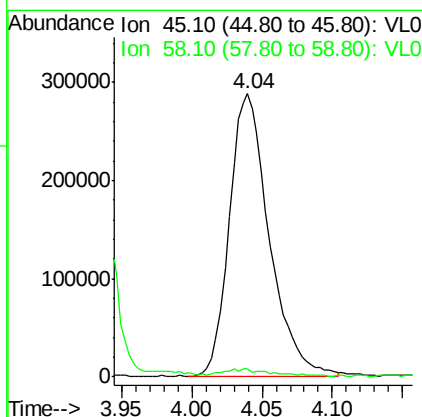
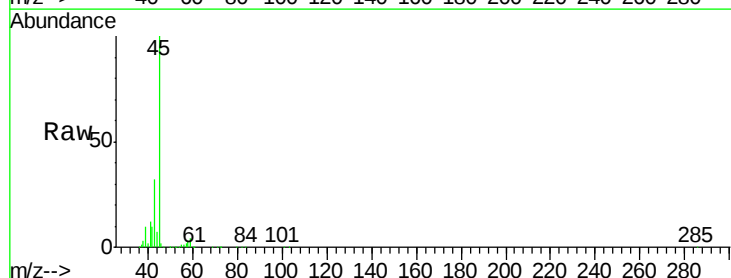
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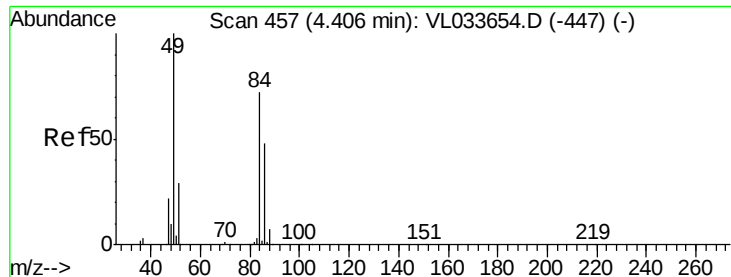


#19

Isopropyl Alcohol
Concen: 6.280 ppbv
RT: 4.04 min Scan# 343
Delta R.T. 0.01 min
Lab File: VL033694.D
Acq: 14 May 2019 16:58

Tgt Ion	45	Resp	568203
Ion	Ratio	Lower	Upper
45	100		
58	0.0	2.0	3.0#





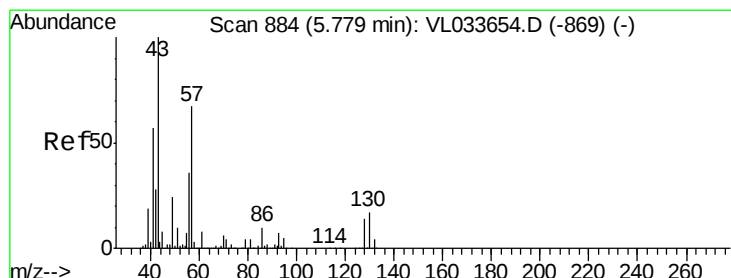
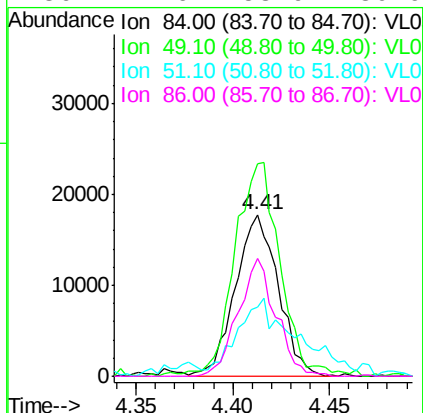
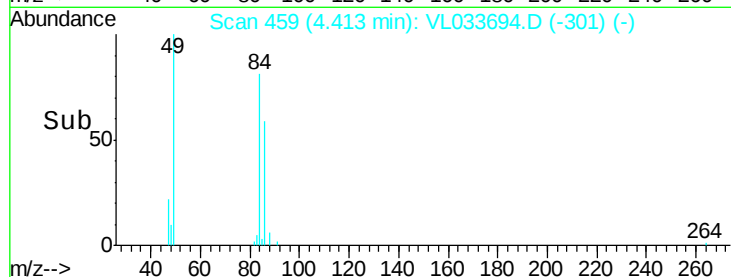
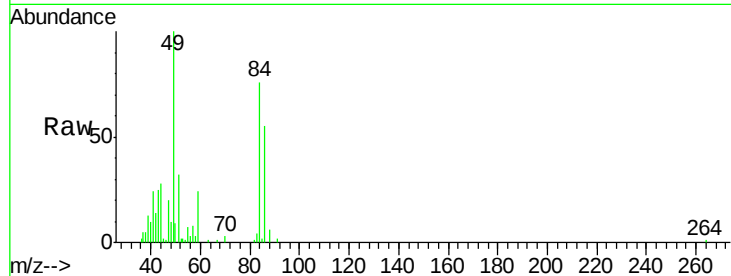
#20
Methvlene Chloride
Concen: 0.489 ppbv
RT: 4.41 min Scan# 459
Delta R.T. 0.01 min
Lab File: VL033694.D
Acq: 14 May 2019 16:58

Instrument :
MSVOA_L
ClientSampleId :
SS02

Tot Ion:	84	Resp:	27340
Ion	Ratio	Lower	Upper
84	100		
49	128.7	111.8	167.6
51	34.0	32.3	48.5
86	72.6	53.9	80.9

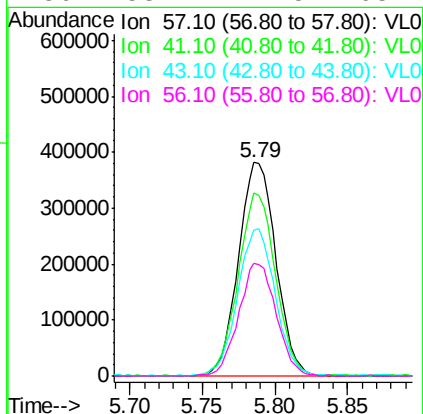
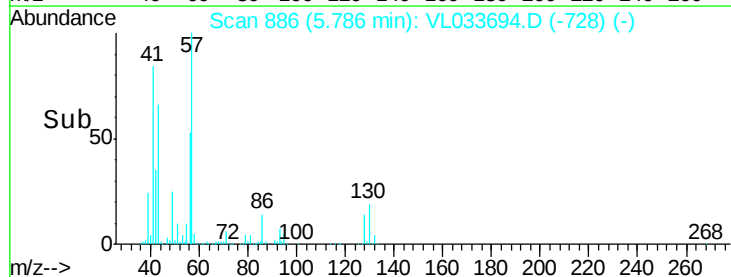
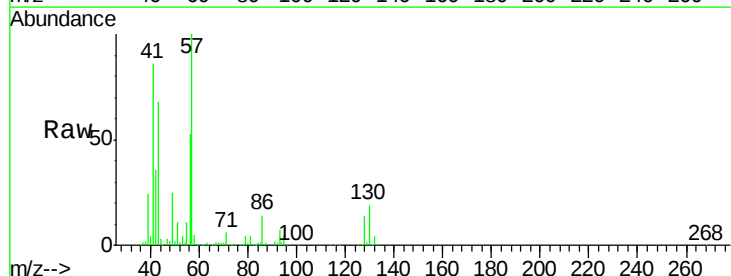
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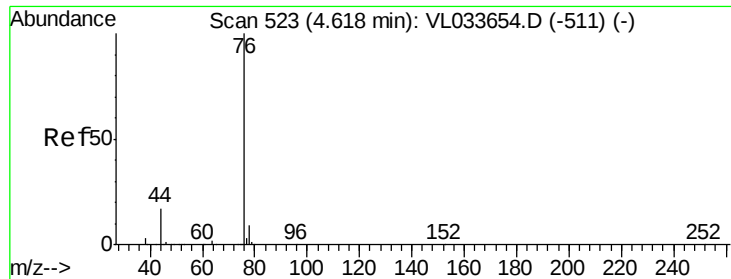
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#26
Hexane
Concen: 6.640 ppbv
RT: 5.79 min Scan# 886
Delta R.T. 0.01 min
Lab File: VL033694.D
Acq: 14 May 2019 16:58

Tgt Ion:	57	Resp:	683878
Ion	Ratio	Lower	Upper
57	100		
41	85.9	69.7	104.5
43	69.2	181.9	272.9#
56	53.1	42.5	63.7





#27

Carbon Disulfide

Concen: 0.637 ppbv

RT: 4.62 min Scan# 525

Delta R.T. 0.01 min

Lab File: VL033694.D

Acq: 14 May 2019 16:58

Instrument :

MSVOA_L

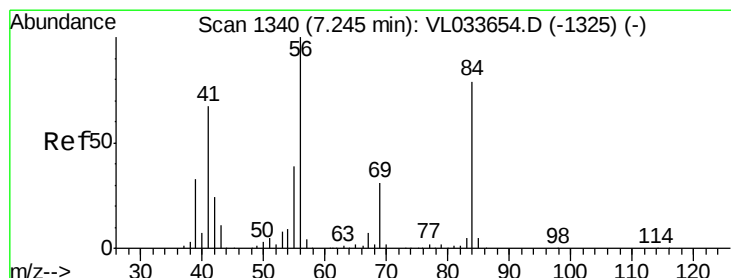
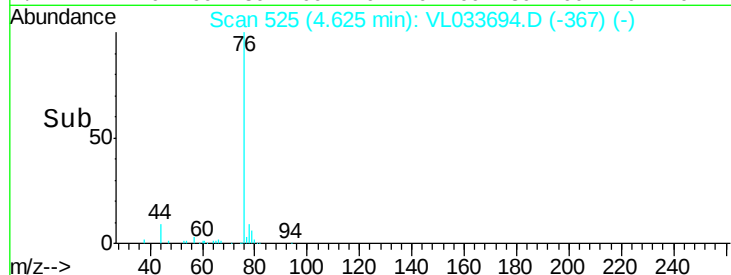
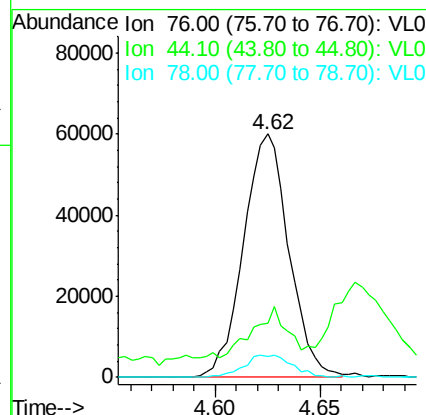
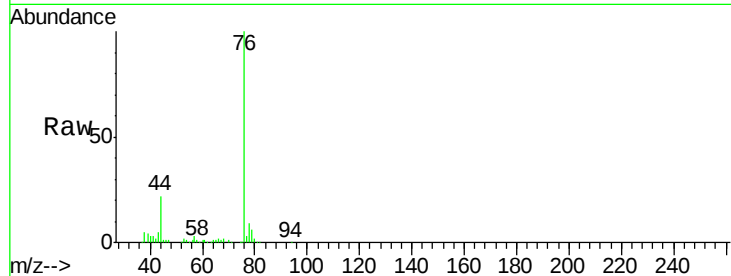
ClientSampleId :

SS02

Tot Ion:	76	Resp:	89678
Ion Ratio	Lower	Upper	
76	100		
44	21.3	14.4	21.6
78	9.9	7.4	11.2

Manual Integrations
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#30

Cyclohexane

Concen: 68.454 ppbv

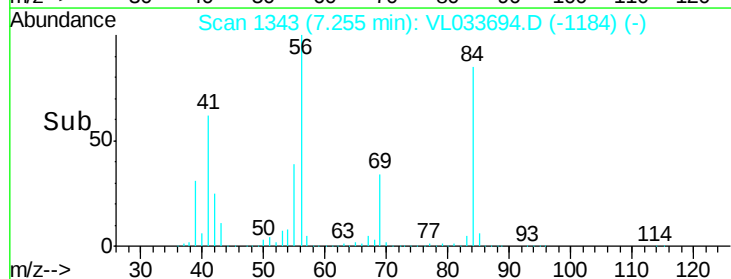
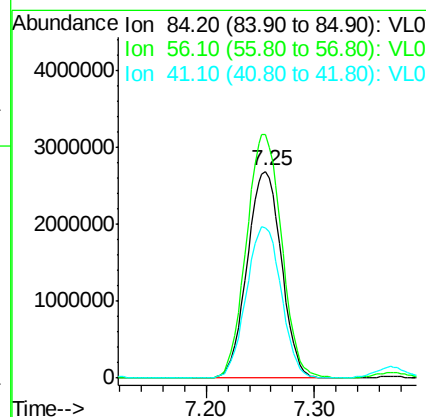
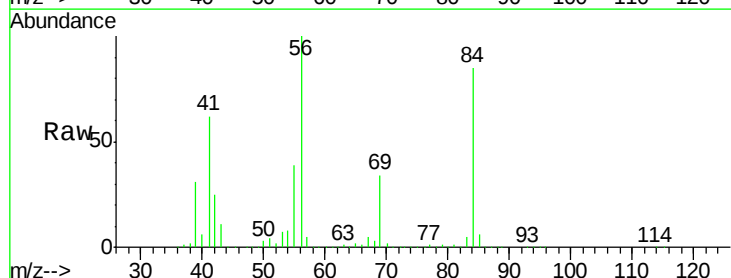
RT: 7.25 min Scan# 1343

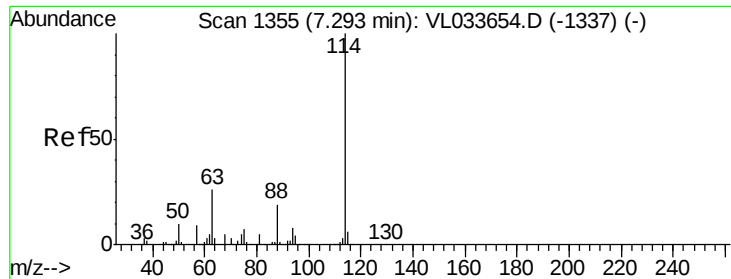
Delta R.T. 0.01 min

Lab File: VL033694.D

Acq: 14 May 2019 16:58

Tgt Ion:	84	Resp:	5920989
Ion Ratio	Lower	Upper	
84	100		
56	121.4	107.0	160.4
41	74.7	66.6	99.8





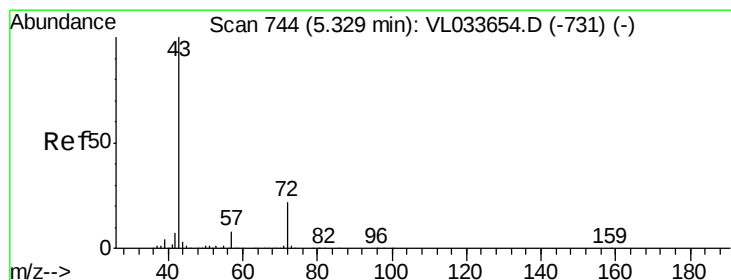
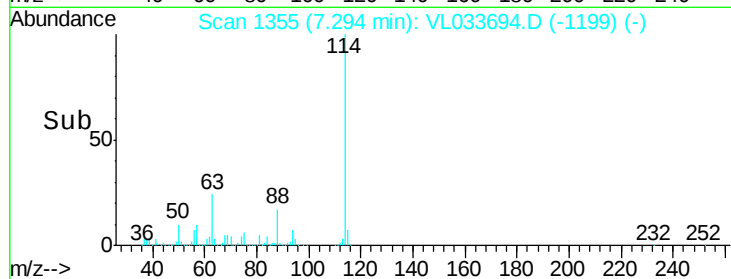
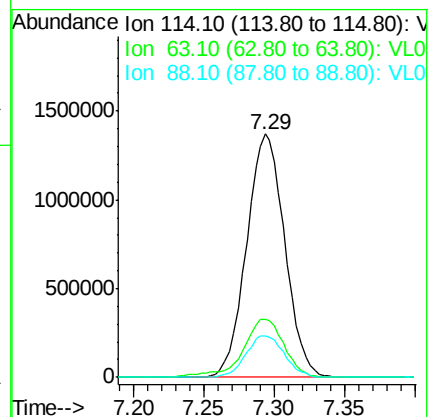
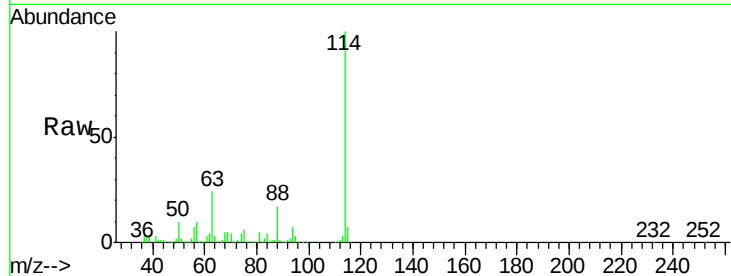
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1355
 Delta R.T. 0.00 min
 Lab File: VL033694.D
 Acq: 14 May 2019 16:58

Instrument :
 MSVOA_L
 ClientSampleId :
 SS02

Tot Ion	Ratio	Lower	Upper
114	100		
63	26.1	21.3	31.9
88	17.3	14.4	21.6

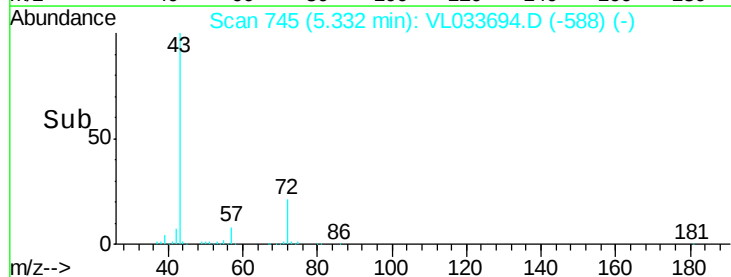
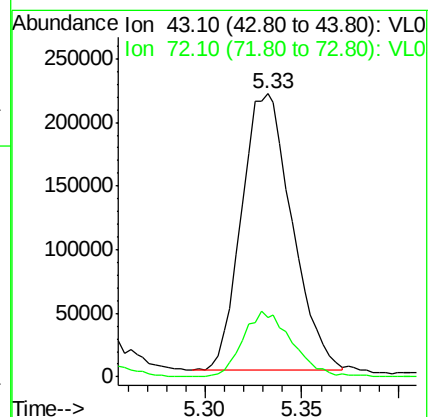
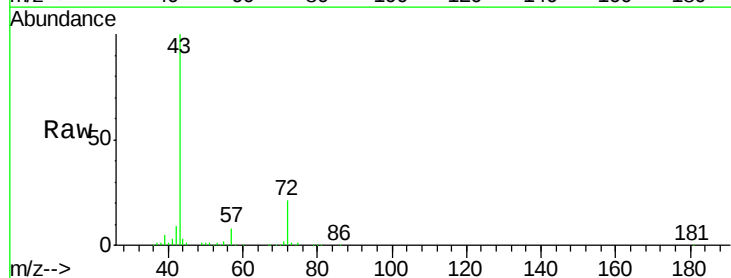
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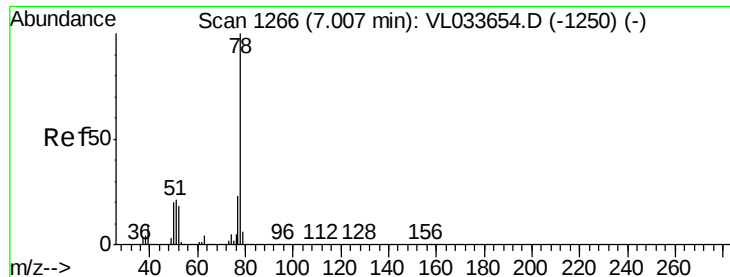
MMDadoda
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#34
 2-Butanone
 Concen: 2.366 ppbv
 RT: 5.33 min Scan# 745
 Delta R.T. 0.00 min
 Lab File: VL033694.D
 Acq: 14 May 2019 16:58

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.6	17.5	26.3





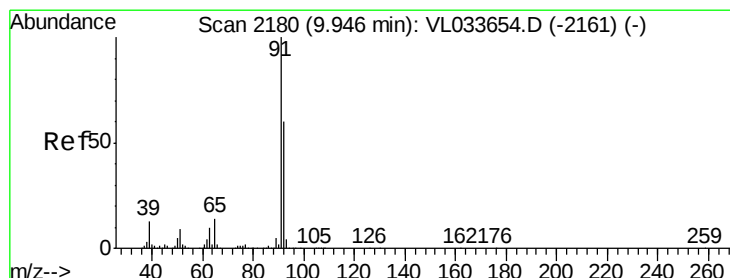
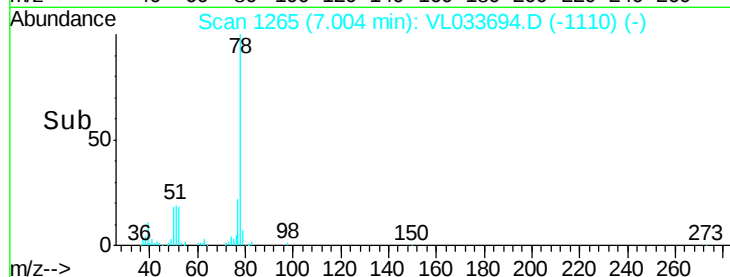
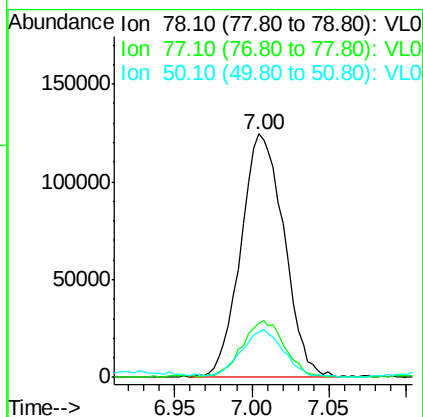
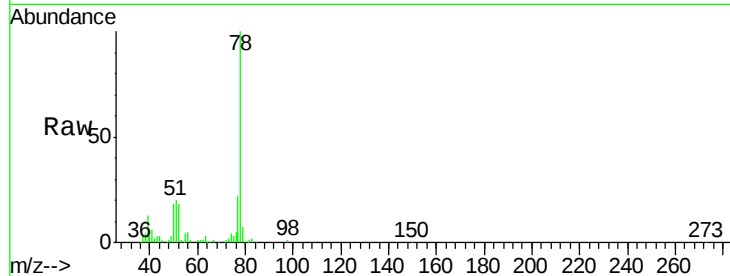
#36
Benzene
Concen: 1.035 ppbv
RT: 7.00 min Scan# 1265
Delta R.T. -0.00 min
Lab File: VL033694.D
Acq: 14 May 2019 16:58

Instrument :
MSVOA_L
ClientSampleId :
SS02

Tot Ion	Ratio	Lower	Upper
78	100		
77	22.3	18.2	27.2
50	18.0	15.8	23.6

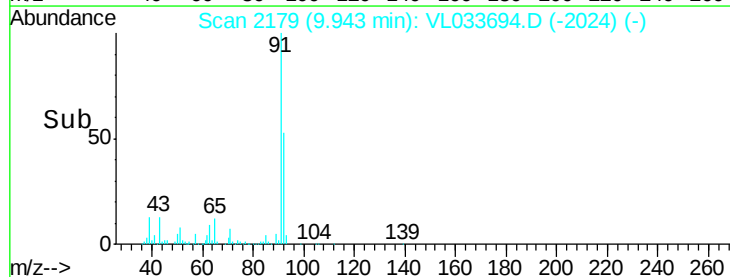
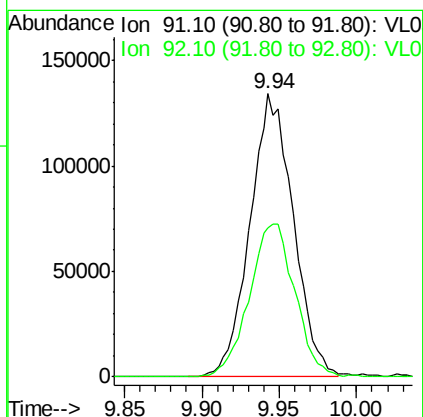
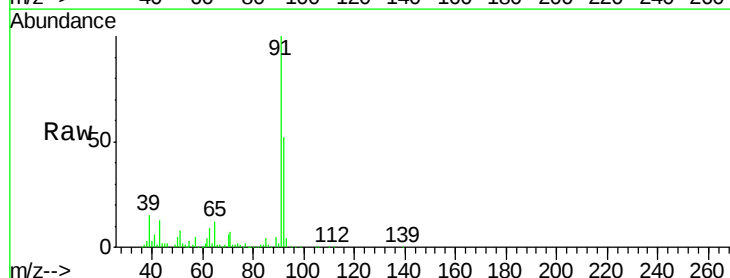
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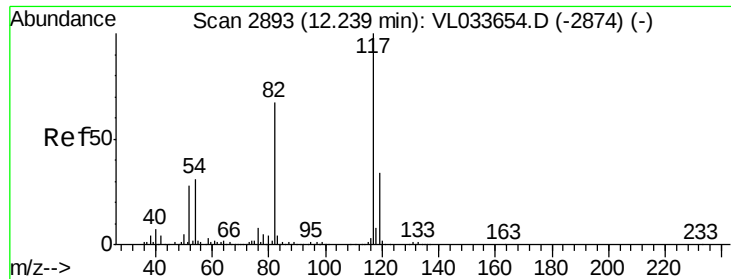
MMDadoda
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#53
Toluene
Concen: 1.043 ppbv
RT: 9.94 min Scan# 2179
Delta R.T. -0.00 min
Lab File: VL033694.D
Acq: 14 May 2019 16:58

Tgt Ion	Ratio	Lower	Upper
91	100		
92	57.2	47.7	71.5





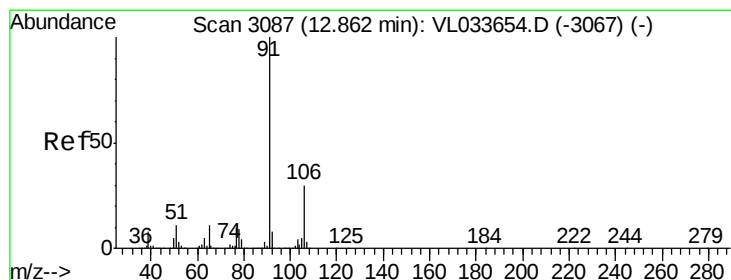
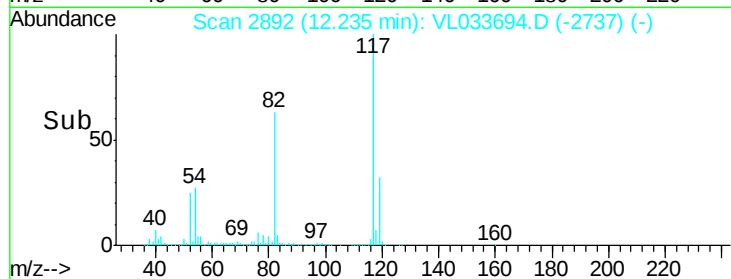
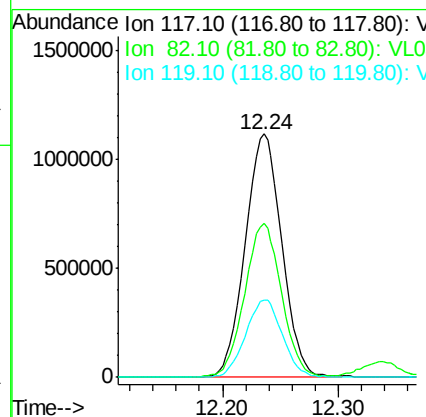
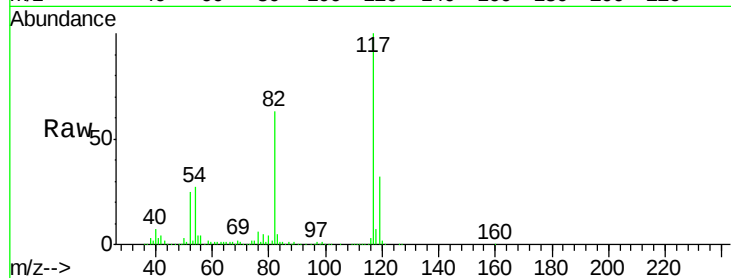
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2892
Delta R.T. -0.00 min
Lab File: VL033694.D
Acq: 14 May 2019 16:58

Instrument :
MSVOA_L
ClientSampled :
SS02

Tot Ion:117 Resp: 2452823
Ion Ratio Lower Upper
117 100
82 63.7 49.7 74.5
119 32.2 24.8 37.2

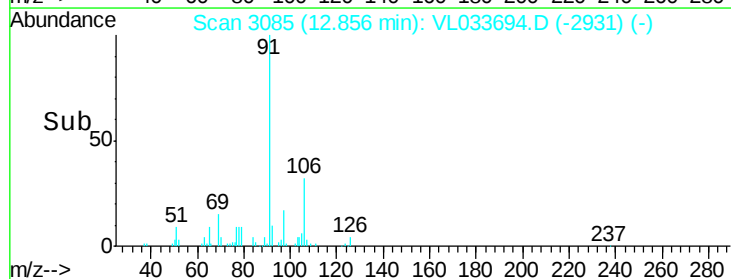
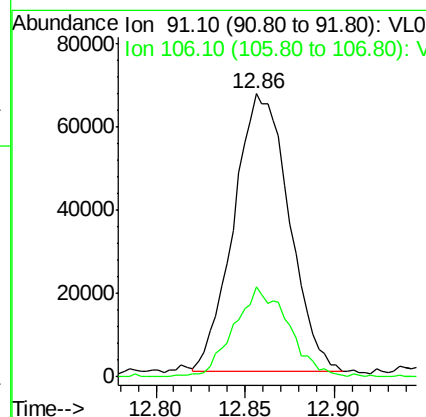
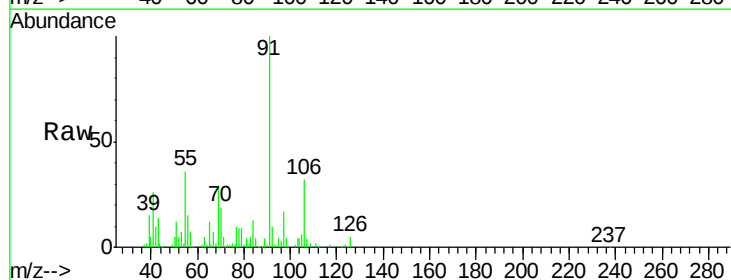
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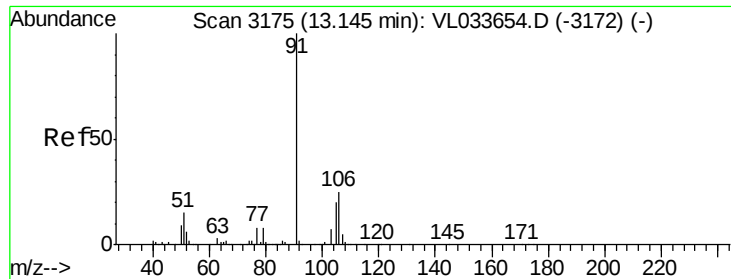
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#58
Ethyl Benzene
Concen: 0.450 ppbv
RT: 12.86 min Scan# 3085
Delta R.T. -0.01 min
Lab File: VL033694.D
Acq: 14 May 2019 16:58

Tgt Ion: 91 Resp: 143903
Ion Ratio Lower Upper
91 100
106 31.7 23.7 35.5





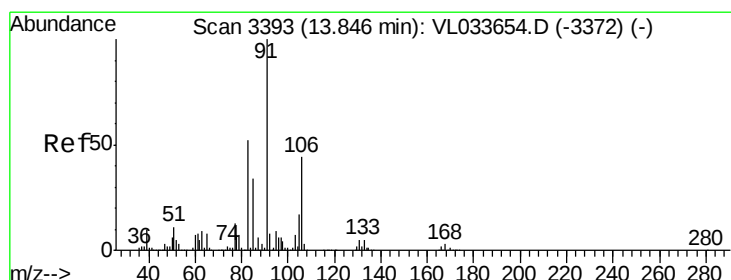
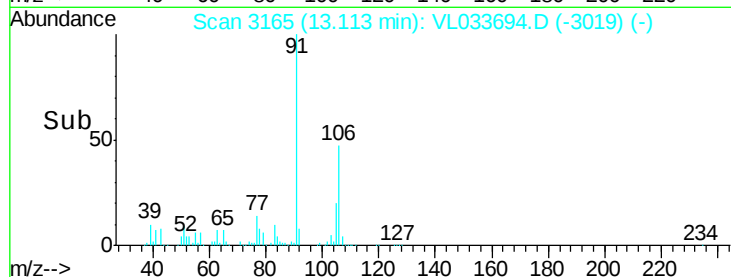
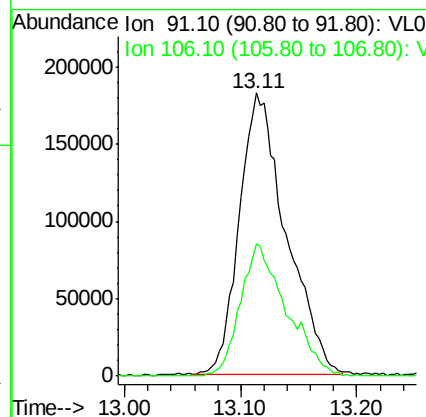
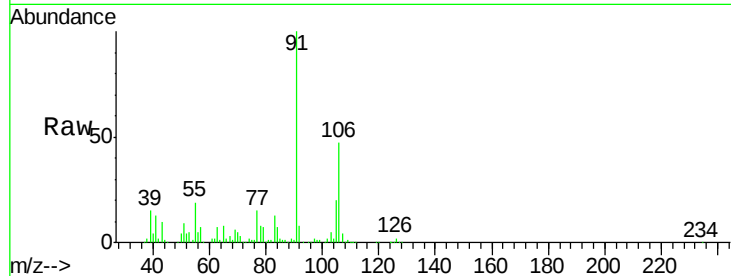
#59
m/p-Xylene
Concen: 1.807 ppbv
RT: 13.11 min Scan# 3165
Delta R.T. -0.03 min
Lab File: VL033694.D
Acq: 14 May 2019 16:58

Instrument :
MSVOA_L
ClientSampled :
SS02

Tot Ion: 91 Resp: 509216
Ion Ratio Lower Upper
91 100
106 46.3 36.2 54.2

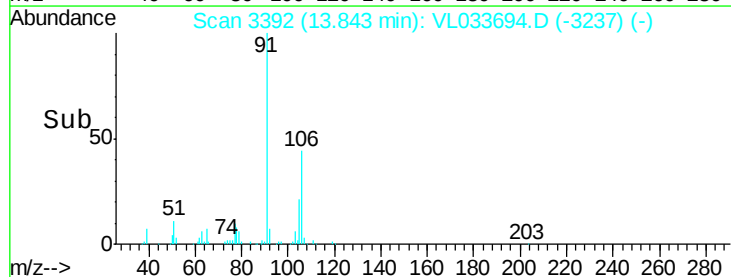
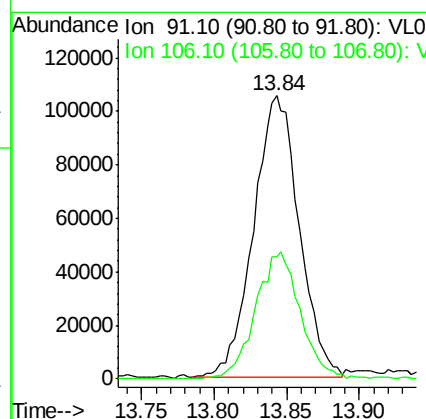
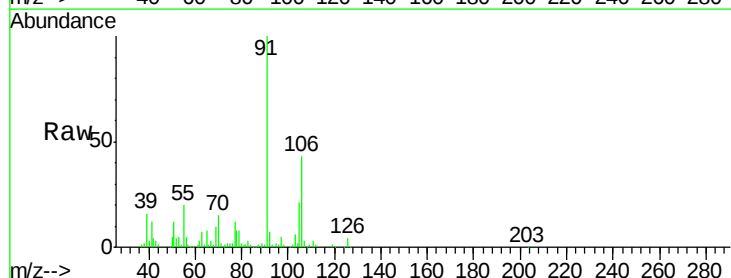
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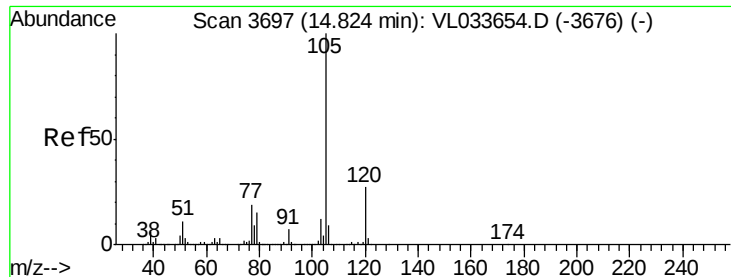
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#60
o-Xylene
Concen: 0.802 ppbv
RT: 13.84 min Scan# 3392
Delta R.T. -0.00 min
Lab File: VL033694.D
Acq: 14 May 2019 16:58

Tgt Ion: 91 Resp: 228708
Ion Ratio Lower Upper
91 100
106 45.0 21.7 65.1





#62

Isopropylbenzene

Concen: 2.786 ppbv

RT: 14.82 min Scan# 3696

Delta R.T. -0.00 min

Lab File: VL033694.D

Acq: 14 May 2019 16:58

Instrument :

MSVOA_L

ClientSampled :

SS02

Tot Ion:105 Resp: 1084531

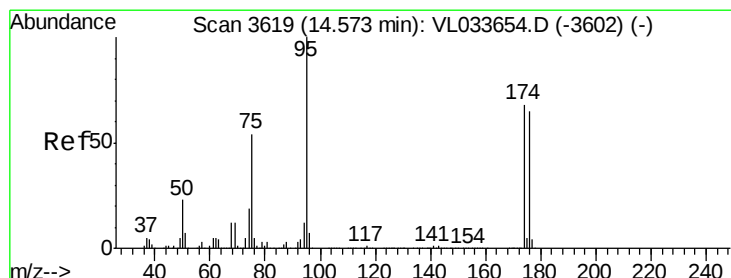
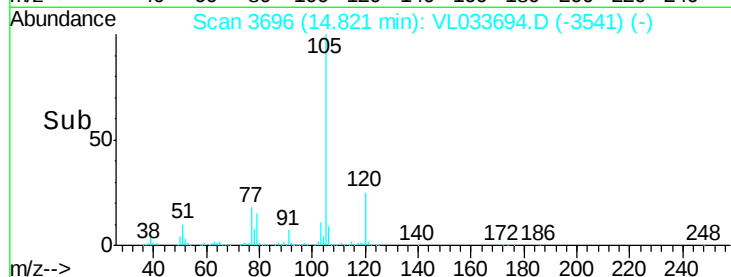
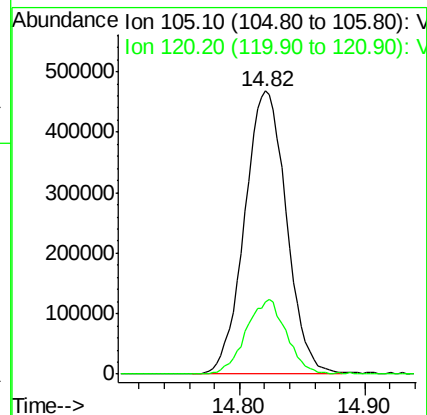
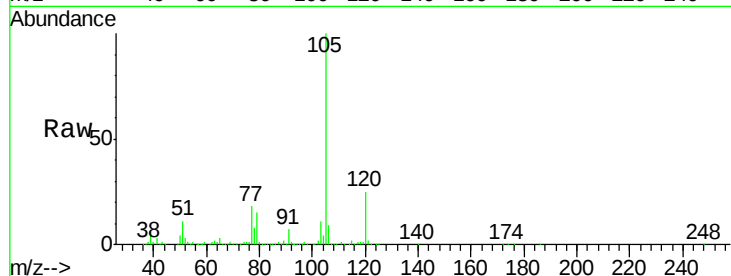
Ion Ratio Lower Upper

105 100

120 25.7 20.5 30.7

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#68

1-Bromo-4-Fluorobenzene

Concen: 10.833 ppbv

RT: 14.57 min Scan# 3617

Delta R.T. -0.01 min

Lab File: VL033694.D

Acq: 14 May 2019 16:58

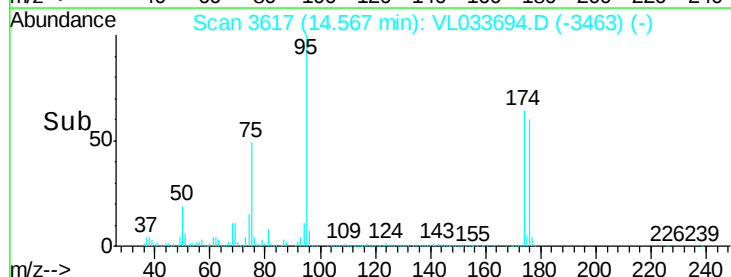
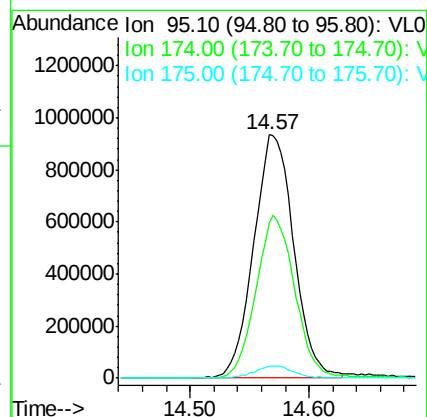
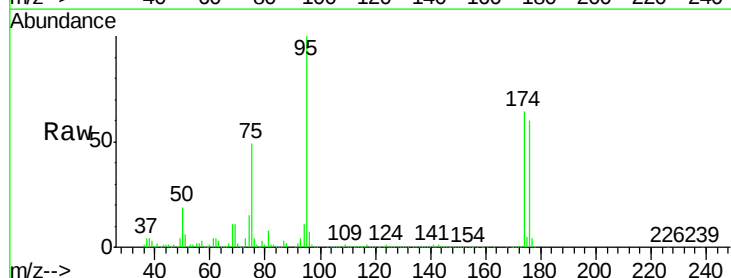
Tgt Ion: 95 Resp: 2178162

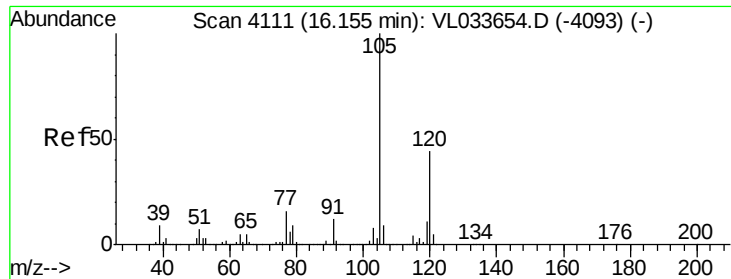
Ion Ratio Lower Upper

95 100

174 65.7 54.0 81.0

175 4.9 3.8 5.8





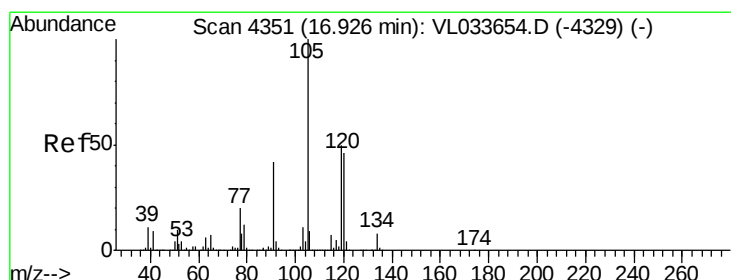
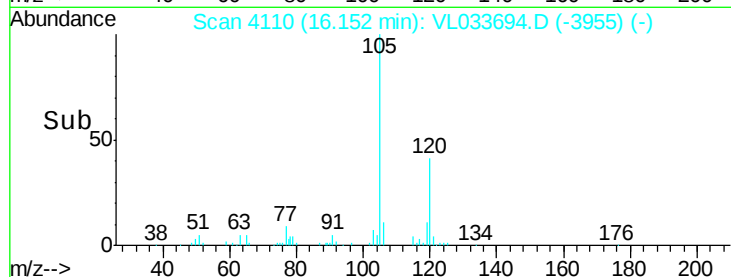
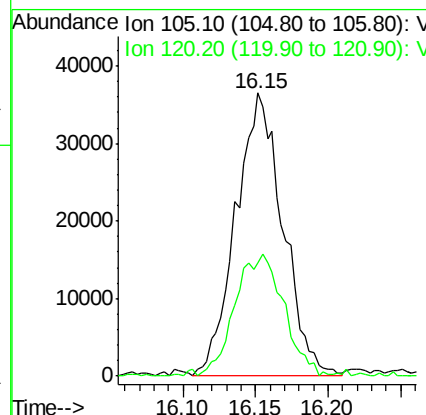
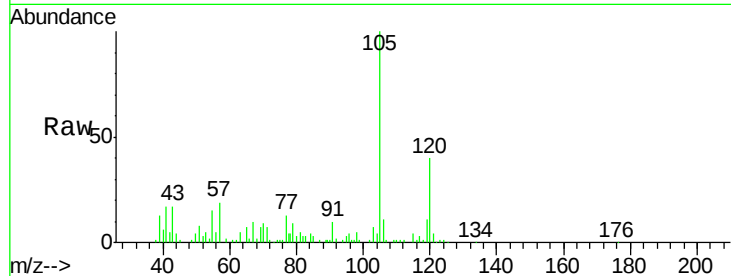
#73
 1,3,5-Trimethylbenzene
 Concen: 0.254 ppbv
 RT: 16.15 min Scan# 4110
 Delta R.T. -0.00 min
 Lab File: VL033694.D
 Acq: 14 May 2019 16:58

Instrument :
 MSVOA_L
 ClientSampleId :
 SS02

Tot Ion	Ratio	Lower	Upper
105	100		
120	43.9	35.5	53.3

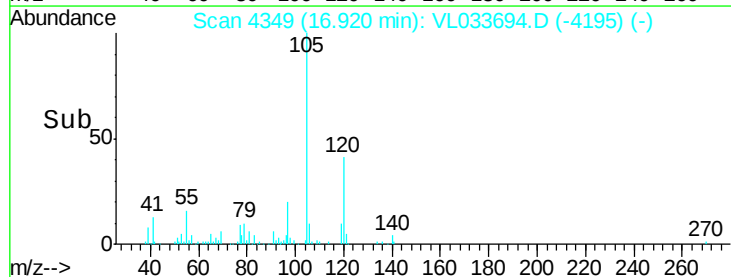
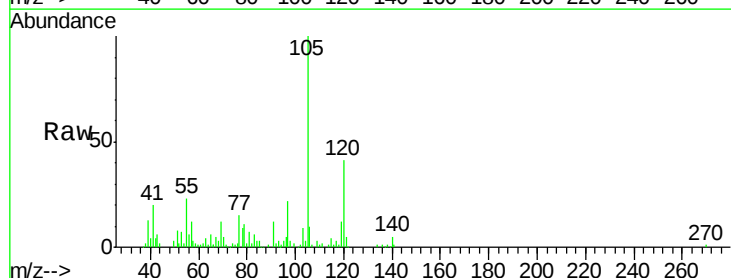
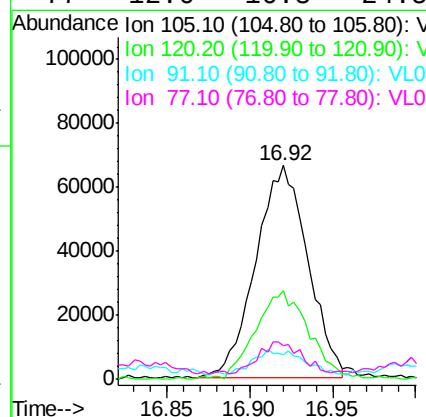
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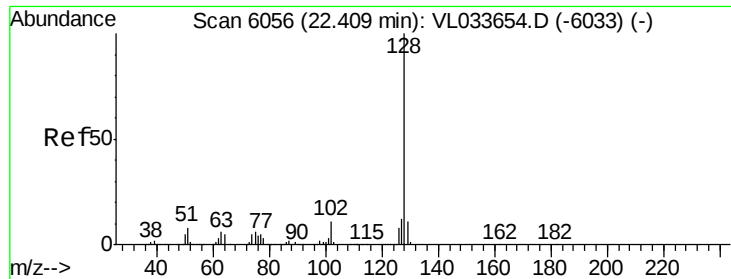
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#74
 1,2,4-Trimethylbenzene
 Concen: 0.402 ppbv
 RT: 16.92 min Scan# 4349
 Delta R.T. -0.01 min
 Lab File: VL033694.D
 Acq: 14 May 2019 16:58

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.8	36.5	54.7
91	9.3	33.7	50.5#
77	12.6	16.3	24.5#





#79

Naphthalene

Concen: 0.104 ppbv m

RT: 22.41 min Scan# 6055

Delta R.T. -0.00 min

Lab File: VL033694.D

Acq: 14 May 2019 16:58

Instrument :

MSVOA_L

ClientSampleId :

SS02

Tot Ion:	128	Resp:	34120
Ion Ratio	Lower	Upper	
128	100		
127	9.6	9.8	14.8#
129	13.7	8.8	13.2#

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