

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062619\
 Data File : VL033979.D
 Acq On : 26 Jun 2019 22:35
 Operator : SY/AP
 Sample : K3538-01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SUB-SLAB

Manual Integrations
 APPROVED

MMDadoda
 6/29/2019 7:23:07 AM

Quant Time: Jun 27 15:00:24 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 0
 QLast Update : Fri Jun 07 08:53:27 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.73	49	815886	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.26	114	1928971	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.21	117	2036049	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.54	95	1751272	10.47	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	39686	0.300	ppbv	91
3) Chlorodifluoromethane	3.00	51	43056m	0.448	ppbv	
4) Chloromethane	3.15	50	28437	0.519	ppbv #	87
9) Propene	3.03	41	147858m	4.114	ppbv	
10) Heptane	8.22	43	24963m	0.275	ppbv	
11) Trichlorofluoromethane	3.99	101	44943	0.263	ppbv	90
13) Ethanol	3.64	45	181481	15.520	ppbv	99
15) Acetone	3.88	43	811920	6.823	ppbv	94
17) tert-Butyl alcohol	4.35	59	106656	1.147	ppbv #	72
19) Isopropyl Alcohol	4.02	45	41326m	0.608	ppbv	
20) Methylene Chloride	4.39	84	102633	2.212	ppbv	96
26) Hexane	5.76	57	105617	1.280	ppbv #	41
34) 2-Butanone	5.31	43	130402	1.198	ppbv	99
35) Carbon Tetrachloride	7.10	117	11838m	0.079	ppbv	
36) Benzene	6.98	78	120288	0.816	ppbv	98
41) Tetrahydrofuran	6.14	42	11839m	0.214	ppbv	
44) 2,2,4-Trimethylpentane	7.96	57	379550	1.448	ppbv #	82
52) Tetrachloroethene	11.35	164	3564m	0.069	ppbv	
53) Toluene	9.92	91	732489	4.492	ppbv	100
58) Ethyl Benzene	12.83	91	160884	0.701	ppbv	96
59) m/p-Xylene	13.09	91	480142	2.300	ppbv	99
60) o-Xylene	13.82	91	171708	0.797	ppbv	98
61) Styrene	13.65	104	22623	0.162	ppbv	87
62) Isopropylbenzene	14.79	105	237882	0.819	ppbv	98
64) n-propylbenzene	15.69	120	10749m	0.144	ppbv	
65) tert-Butylbenzene	16.89	119	31387m	0.117	ppbv	
70) n-Butylbenzene	18.69	91	50109m	0.146	ppbv	
72) 4-Ethyltoluene	15.97	105	72388m	0.295	ppbv	
73) 1,3,5-Trimethylbenzene	16.12	105	53505m	0.221	ppbv	
74) 1,2,4-Trimethylbenzene	16.89	105	300457	1.079	ppbv #	74
76) 1,4-Dichlorobenzene	17.28	146	34798m	0.217	ppbv	
79) Naphthalene	22.37	128	74053m	0.333	ppbv	

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

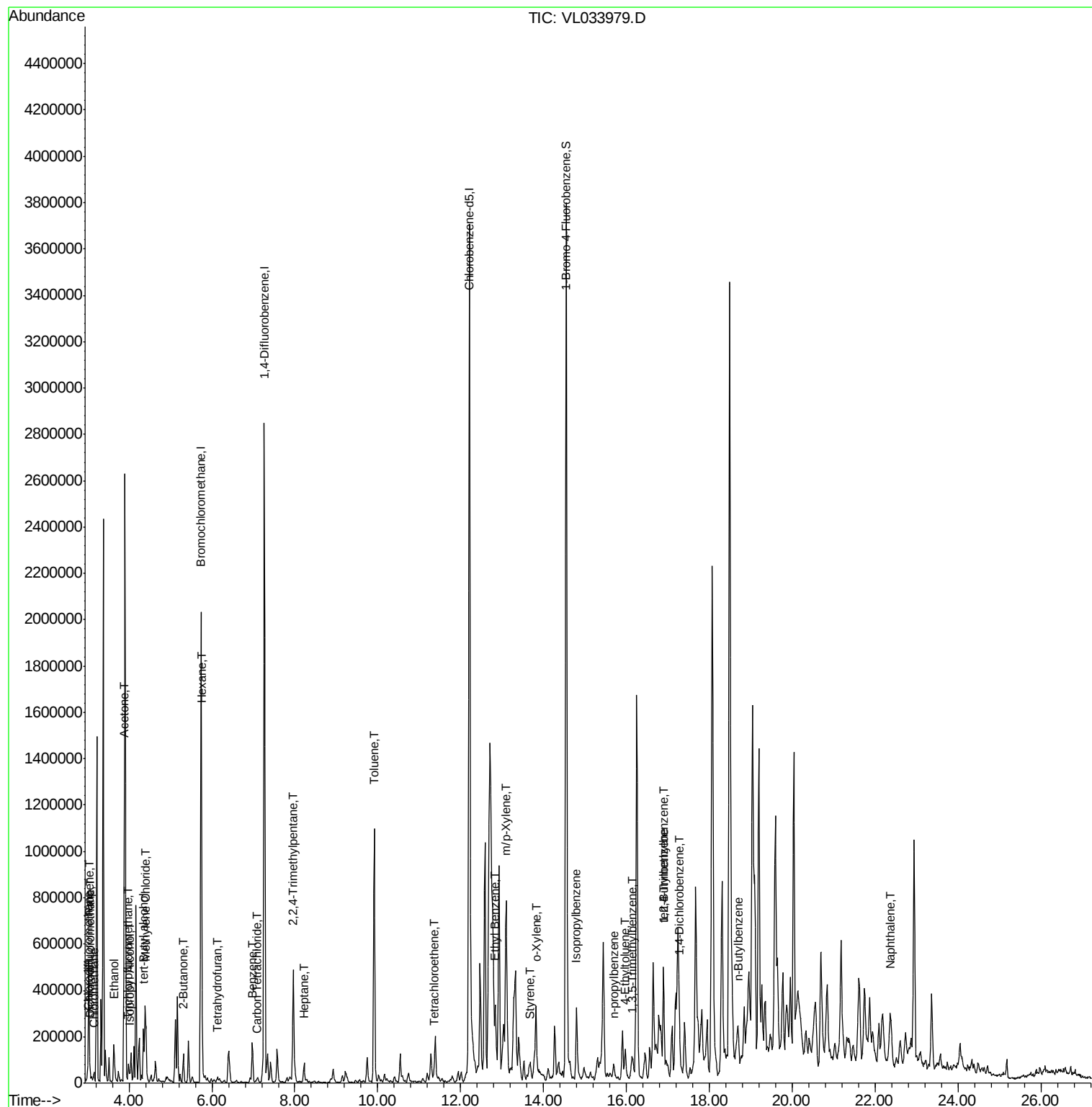
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL062619\
Data File : VL033979.D
Acq On : 26 Jun 2019 22:35
Operator : SY/AP
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Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

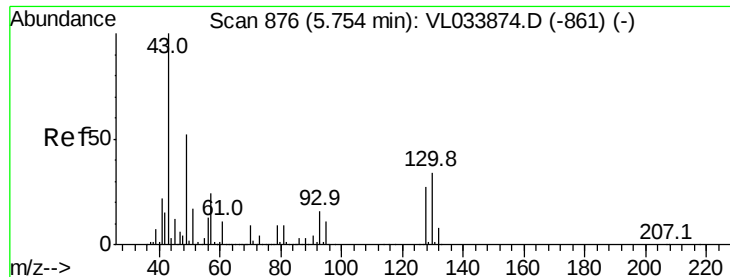
Instrument :
MSVOA_L
ClientSampleId :
SUB-SLAB

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6/29/2019 7:23:07 AM

Quant Time: Jun 27 15:00:24 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun
QLast Update : Fri Jun 07 08:53:27 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.73 min Scan# 870

Delta R.T. -0.02 min

Lab File: VL033979.D

Acq: 26 Jun 2019 22:35

Instrument :

MSVOA_L

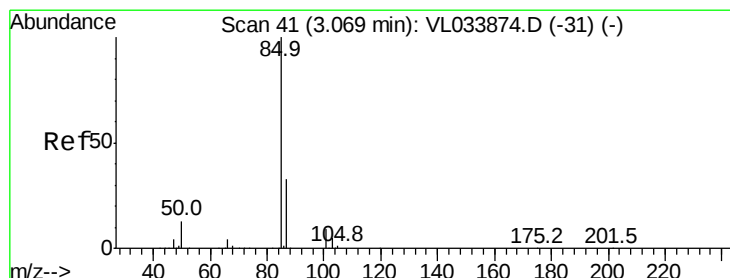
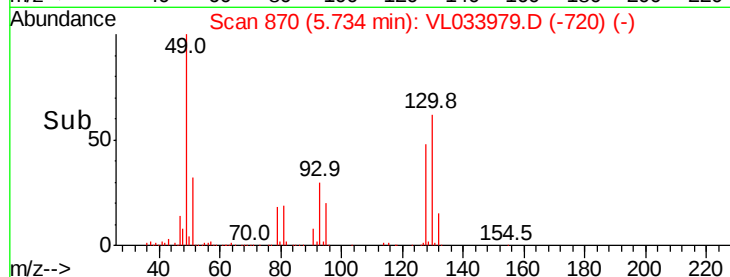
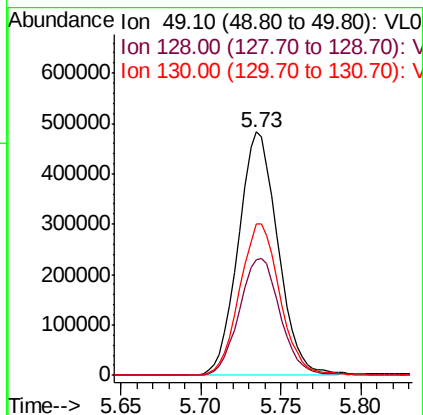
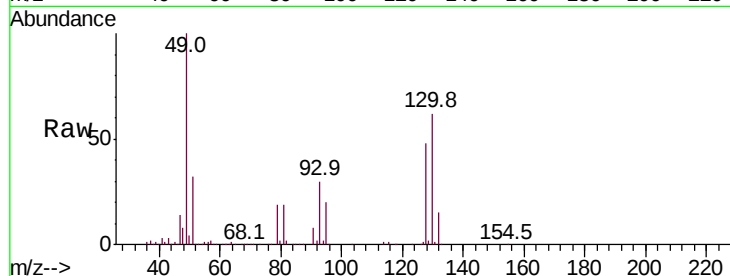
ClientSampleId :

SUB-SLAB

Tot Ion	Ratio	Lower	Upper
49	100		
128	50.1	25.5	76.5
130	64.1	32.5	97.4

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#2

Dichlorodifluoromethane

Concen: 0.300 ppbv

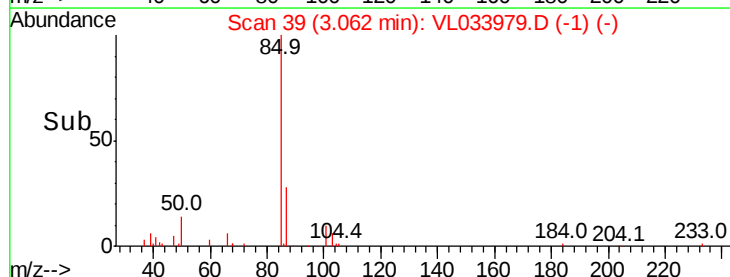
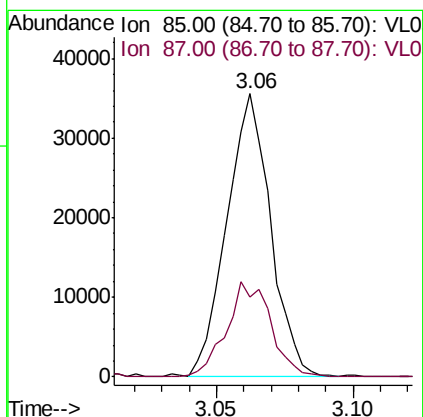
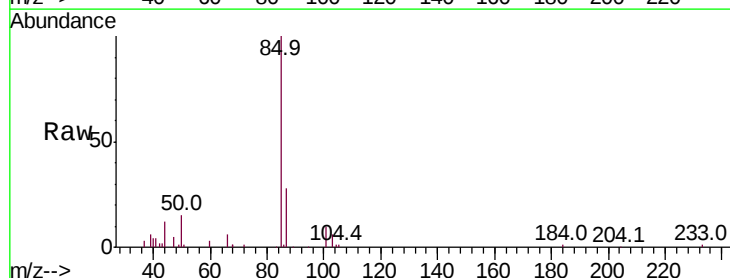
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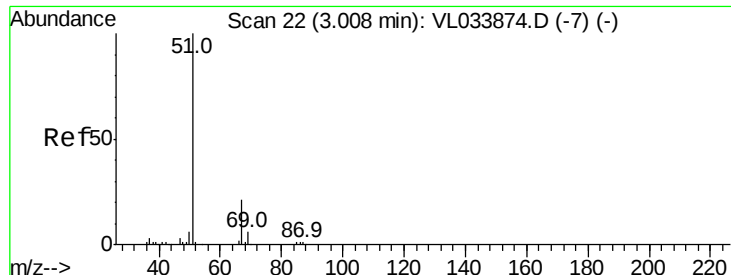
Delta R.T. -0.01 min

Lab File: VL033979.D

Acq: 26 Jun 2019 22:35

Tgt Ion	Ratio	Lower	Upper
85	100		
87	28.2	26.6	40.0





#3

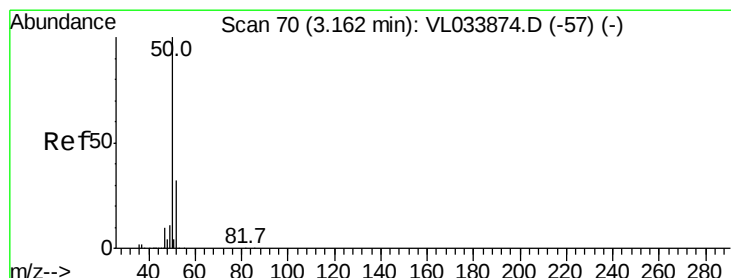
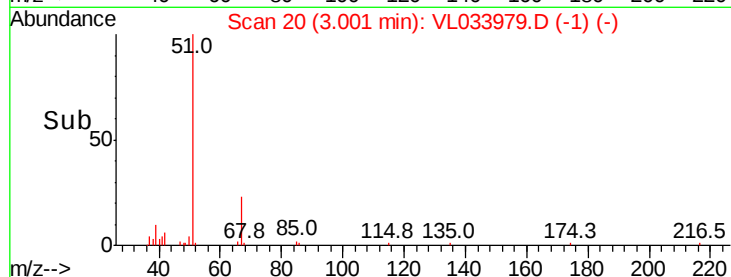
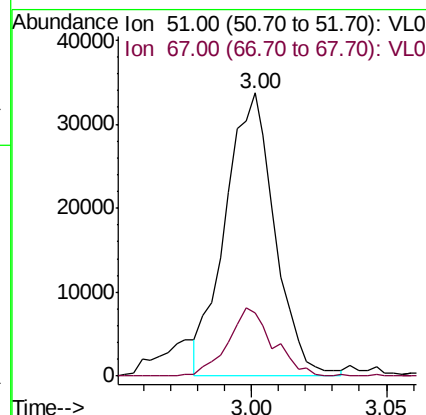
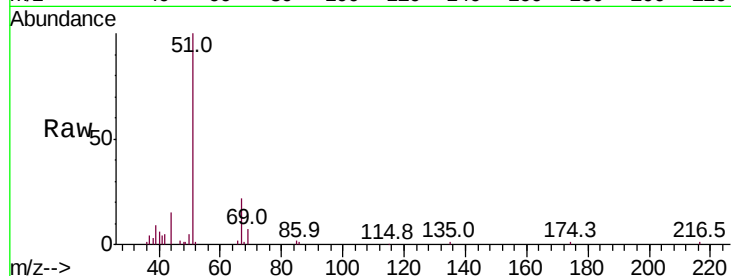
Chlorodifluoromethane
Concen: 0.448 ppbv
RT: 3.00 min Scan# 20
Delta R.T. -0.01 min
Lab File: VL033979.D
Acq: 26 Jun 2019 22:35

Instrument :
MSVOA_L
ClientSampleId :
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Tot Ion	Ratio	Lower	Upper
51	100		
67	22.0	16.4	24.6

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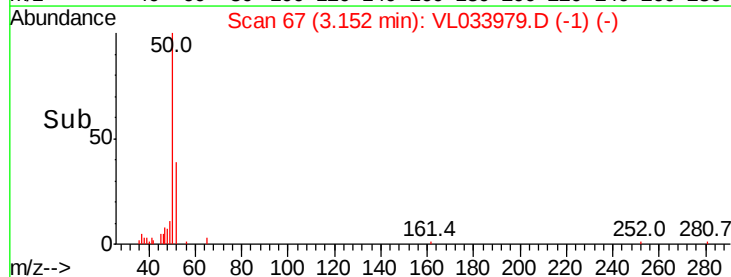
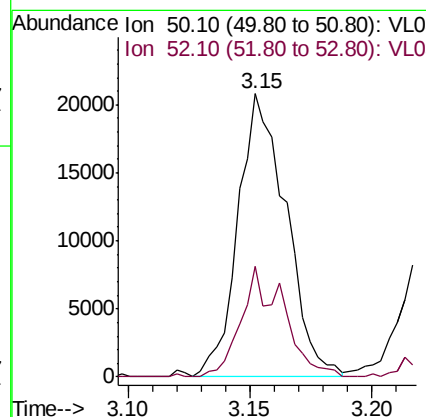
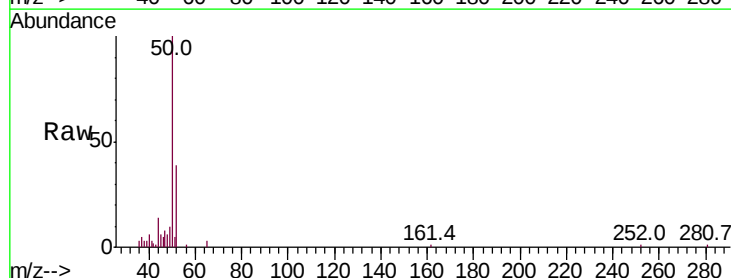
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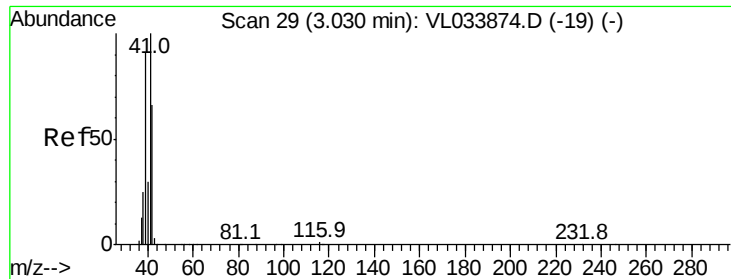


#4

Chloromethane
Concen: 0.519 ppbv
RT: 3.15 min Scan# 67
Delta R.T. -0.01 min
Lab File: VL033979.D
Acq: 26 Jun 2019 22:35

Tgt Ion	Ratio	Lower	Upper
50	100		
52	39.0	25.4	38.0#





#9

Propene

Concen: 4.114 ppbv m

RT: 3.03 min Scan# 28

Delta R.T. -0.00 min

Lab File: VL033979.D

Acq: 26 Jun 2019 22:35

Instrument :

MSVOA_L

ClientSampled :

SUB-SLAB

Tot Ion: 41 Resp: 147858

Ion Ratio Lower Upper

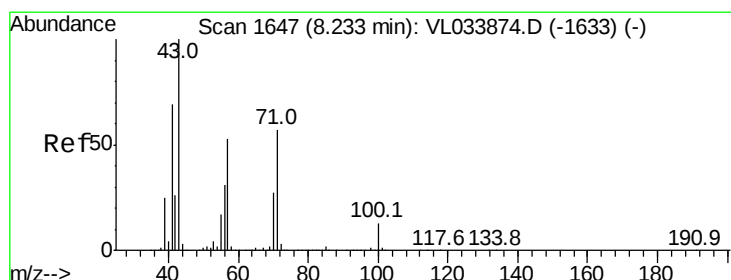
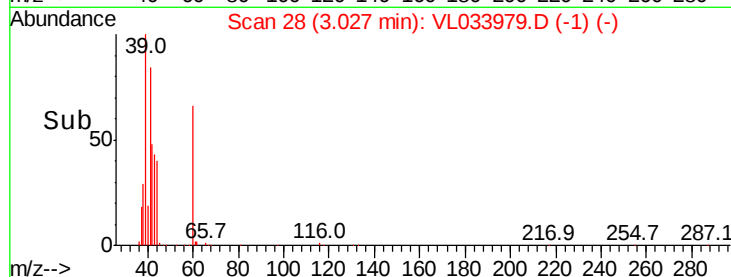
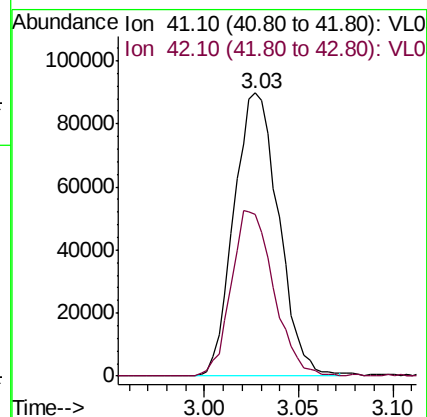
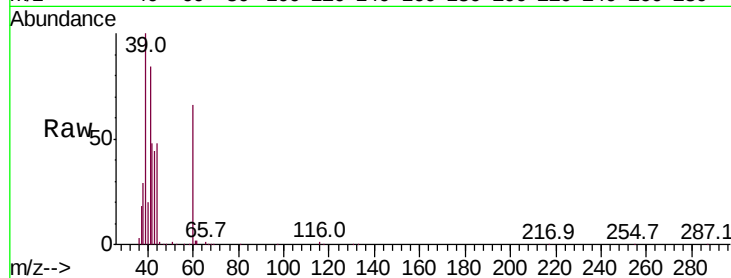
41 100

42 168.4 56.3 84.5#

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#10

Heptane

Concen: 0.275 ppbv m

RT: 8.22 min Scan# 1644

Delta R.T. -0.01 min

Lab File: VL033979.D

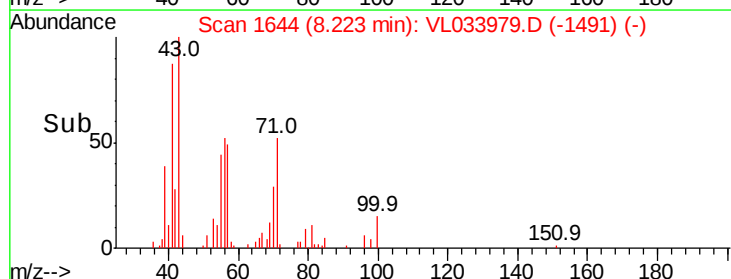
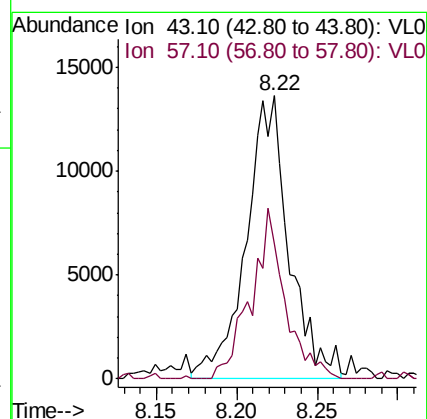
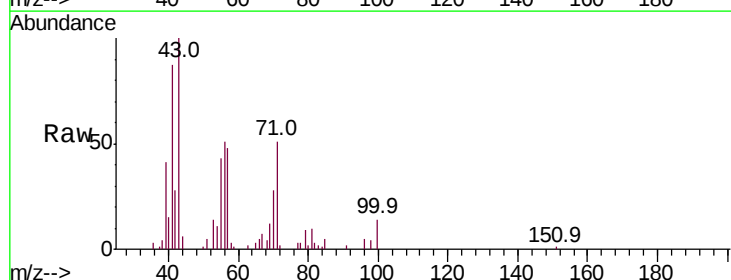
Acq: 26 Jun 2019 22:35

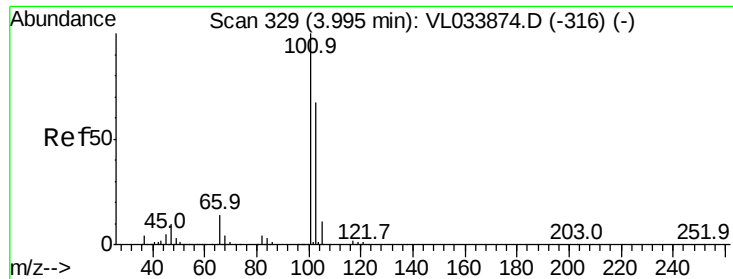
Tgt Ion: 43 Resp: 24963

Ion Ratio Lower Upper

43 100

57 0.0 41.7 62.5#





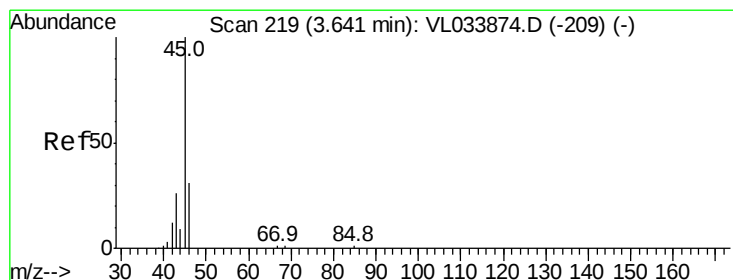
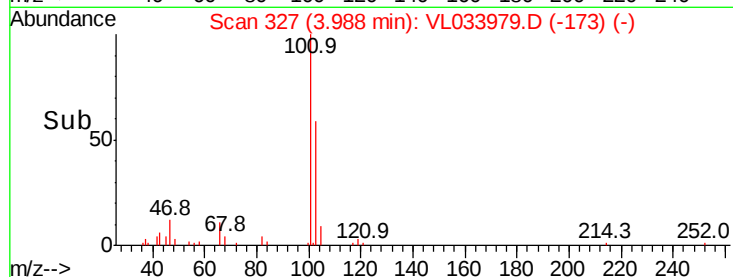
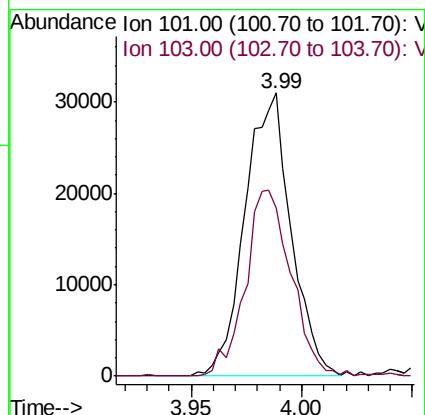
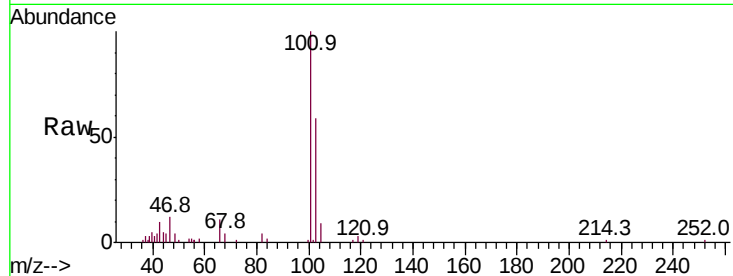
#11
Trichlorofluoromethane
Concen: 0.263 ppbv
RT: 3.99 min Scan# 327
Delta R.T. -0.01 min
Lab File: VL033979.D
Acq: 26 Jun 2019 22:35

Instrument :
MSVOA_L
ClientSampleId :
SUB-SLAB

Tot Ion	Ratio	Resp	Lower	Upper
101	100	44943		
103	59.3		53.6	80.4

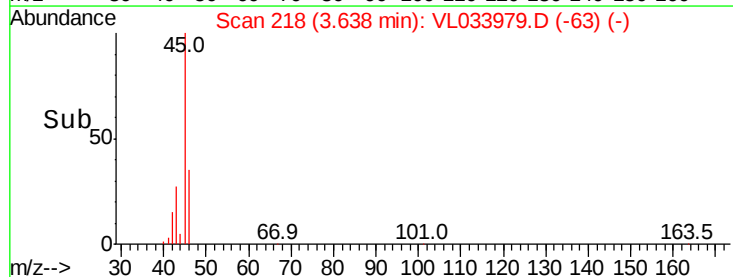
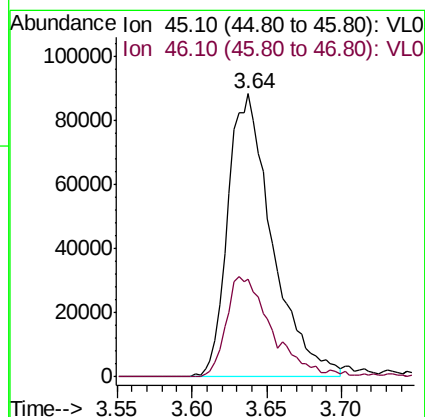
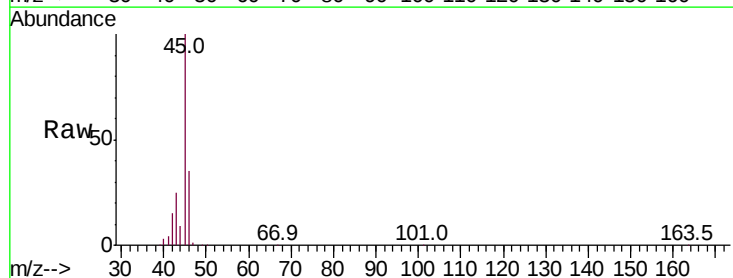
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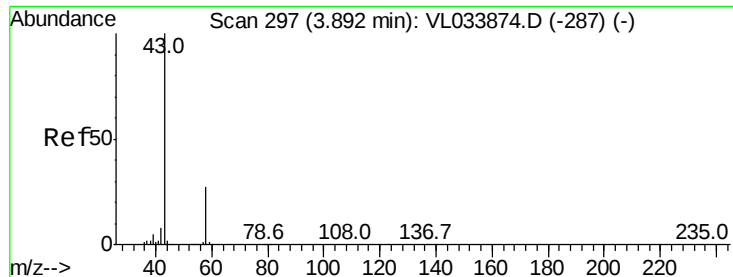
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#13
Ethanol
Concen: 15.520 ppbv
RT: 3.64 min Scan# 218
Delta R.T. -0.00 min
Lab File: VL033979.D
Acq: 26 Jun 2019 22:35

Tgt Ion	Ratio	Resp	Lower	Upper
45	100	181481		
46	37.8		15.3	61.1





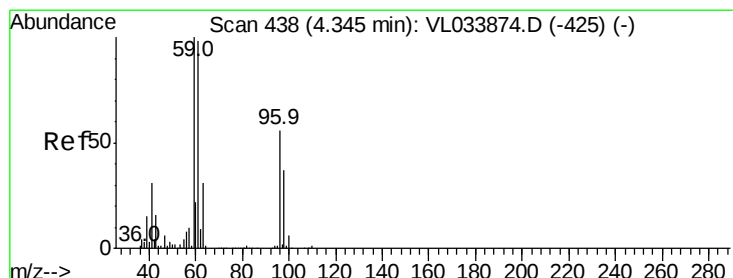
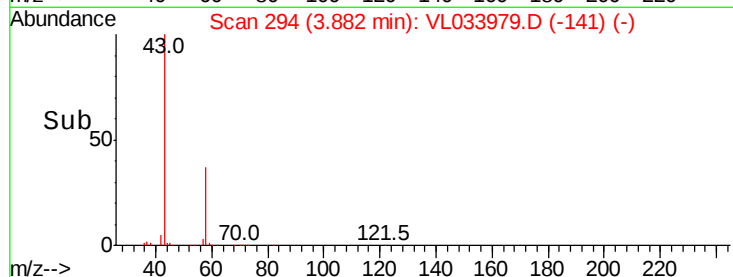
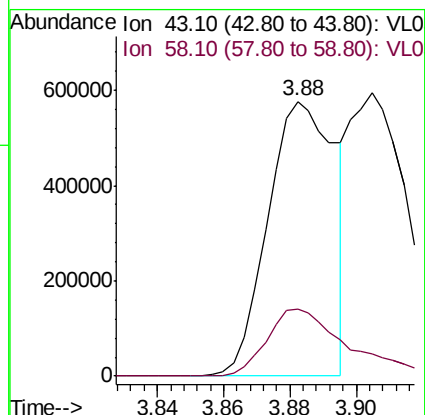
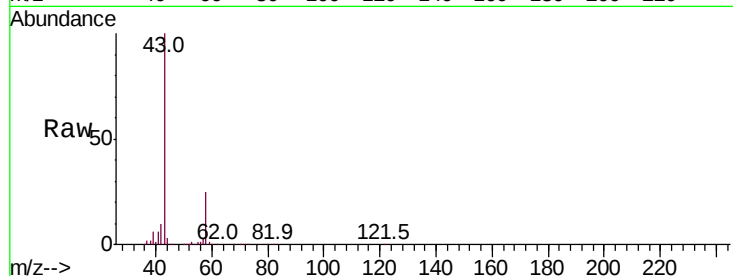
#15
Acetone
Concen: 6.823 ppbv
RT: 3.88 min Scan# 294
Delta R.T. -0.01 min
Lab File: VL033979.D
Acq: 26 Jun 2019 22:35

Instrument :
MSVOA_L
ClientSampleId :
SUB-SLAB

Tot Ion: 43 Resp: 811920
Ion Ratio Lower Upper
43 100
58 29.9 21.3 31.9

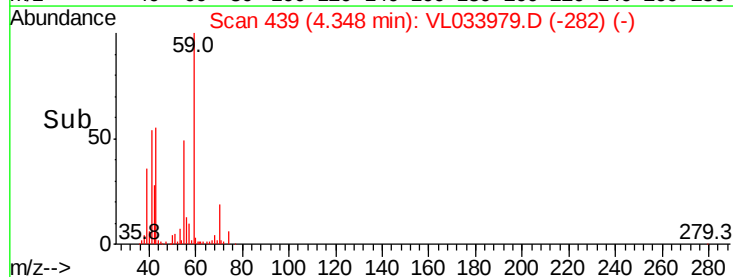
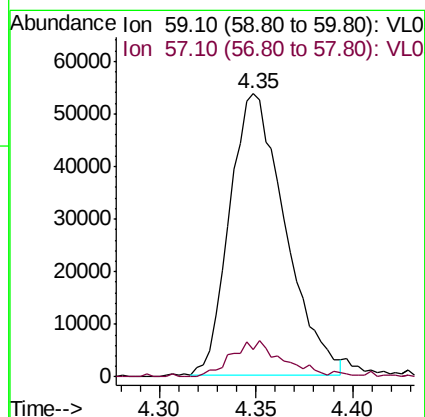
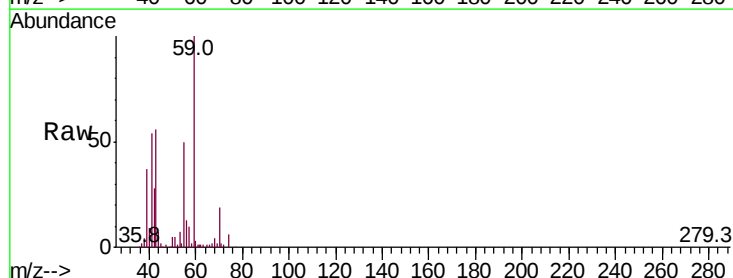
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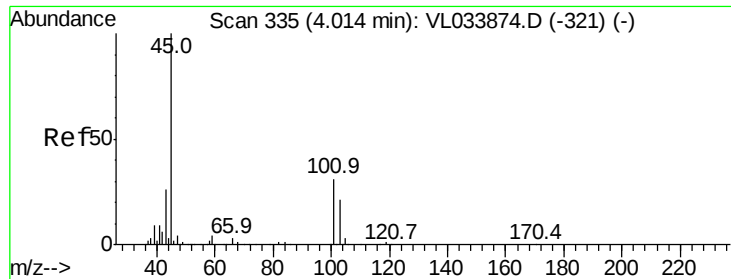
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#17
tert-Butyl alcohol
Concen: 1.147 ppbv
RT: 4.35 min Scan# 439
Delta R.T. 0.00 min
Lab File: VL033979.D
Acq: 26 Jun 2019 22:35

Tgt Ion: 59 Resp: 106656
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#





#19

Isopropyl Alcohol

Concen: 0.608 ppbv m

RT: 4.02 min Scan# 336

Delta R.T. 0.00 min

Lab File: VL033979.D

Acq: 26 Jun 2019 22:35

Instrument :

MSVOA_L

ClientSampleId :

SUB-SLAB

Tot Ion: 45 Resp: 41326

Ion Ratio Lower Upper

45 100

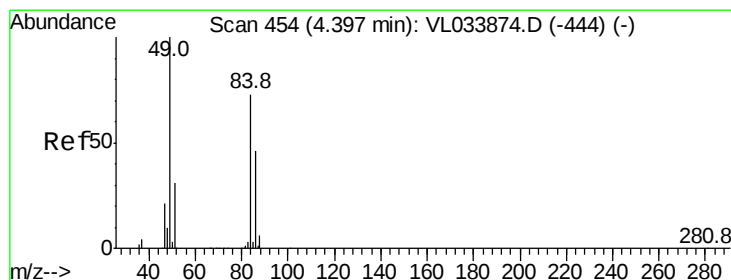
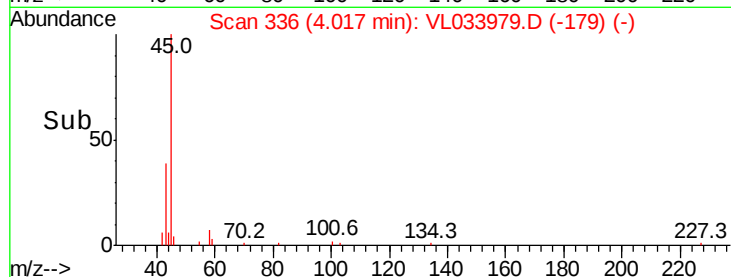
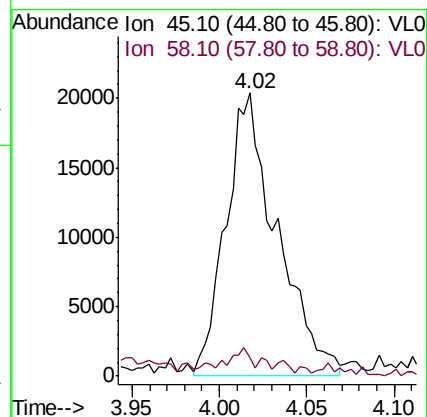
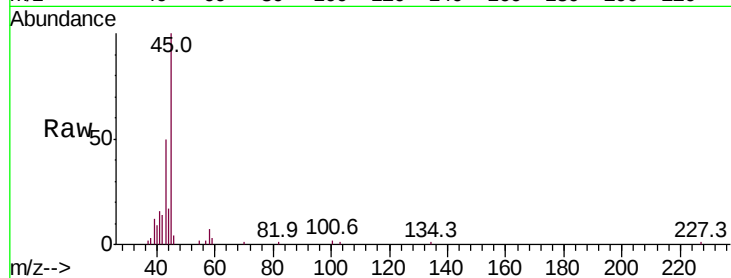
58 0.0 1.8 2.6#

Manual Integrations

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#20

Methylene Chloride

Concen: 2.212 ppbv

RT: 4.39 min Scan# 451

Delta R.T. -0.01 min

Lab File: VL033979.D

Acq: 26 Jun 2019 22:35

Tgt Ion: 84 Resp: 102633

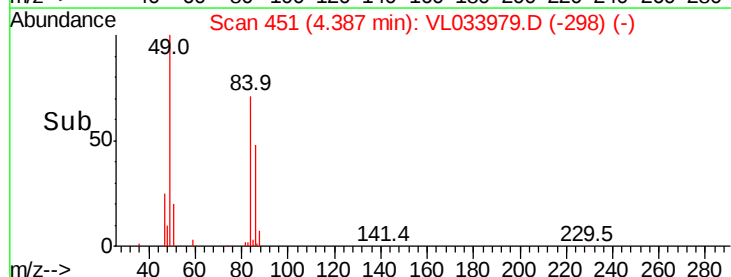
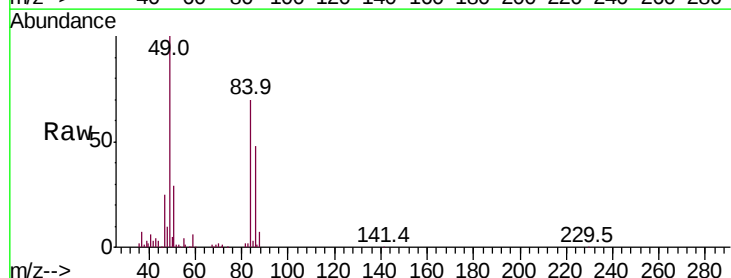
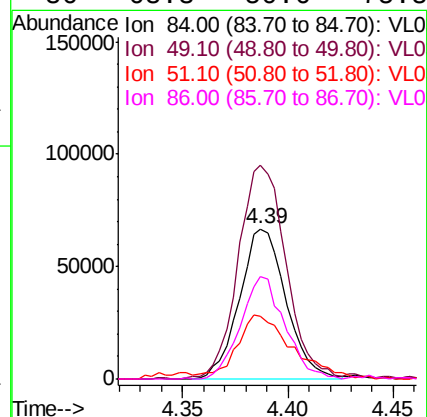
Ion Ratio Lower Upper

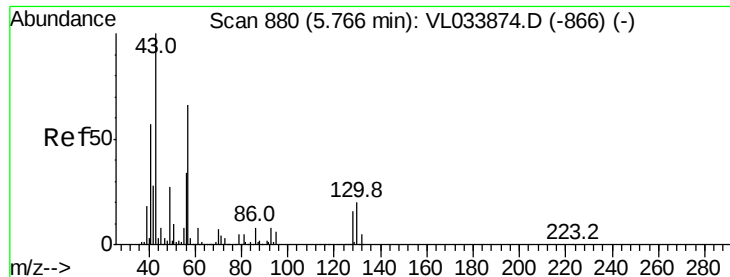
84 100

49 140.0 110.0 165.0

51 38.8 34.6 51.8

86 68.3 50.6 75.8





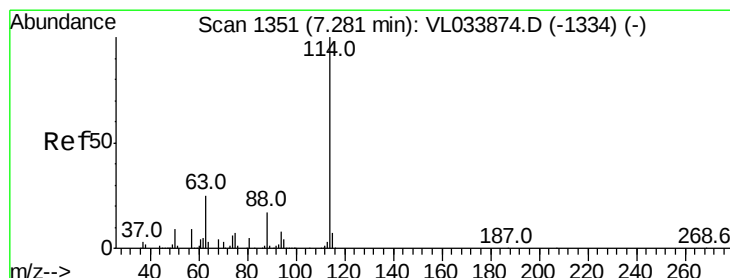
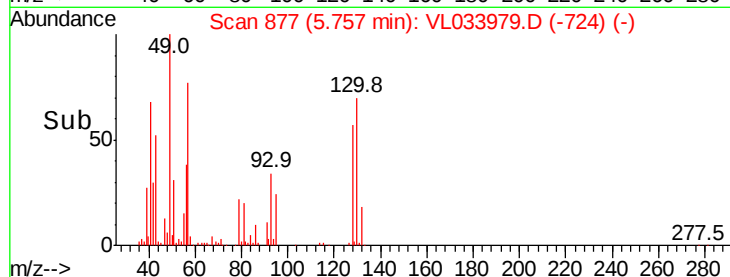
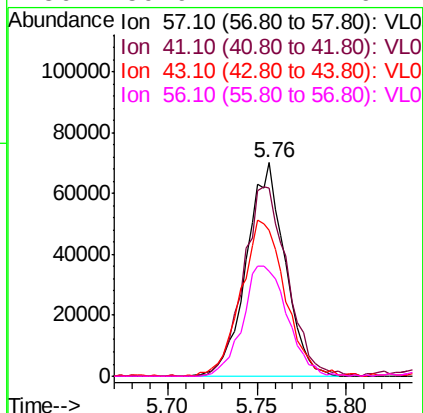
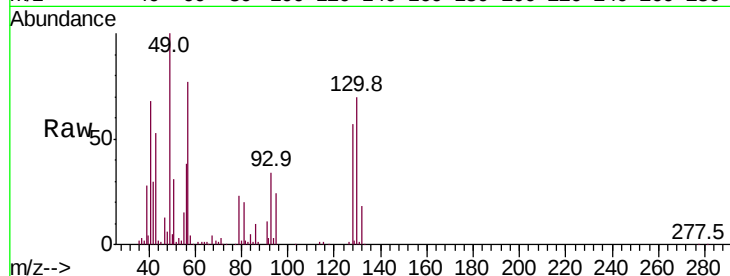
#26
Hexane
Concen: 1.280 ppbv
RT: 5.76 min Scan# 877
Delta R.T. -0.01 min
Lab File: VL033979.D
Acq: 26 Jun 2019 22:35

Instrument :
MSVOA_L
ClientSampleId :
SUB-SLAB

Tot Ion	Ratio	Lower	Upper
57	100		
41	101.6	71.4	107.2
43	83.9	183.7	275.5#
56	59.9	42.7	64.1

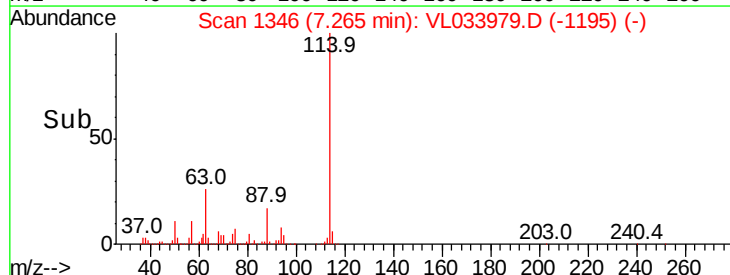
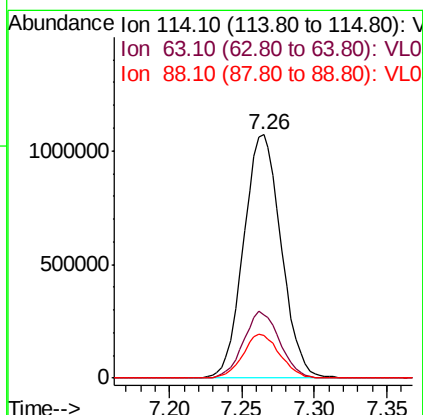
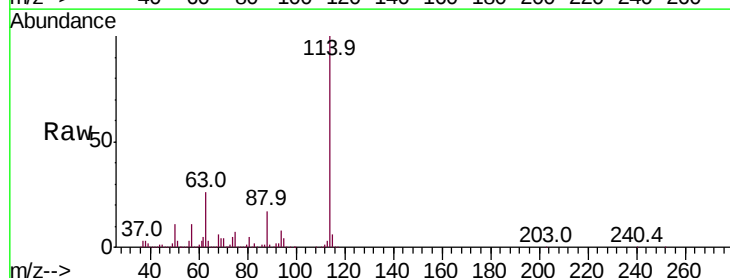
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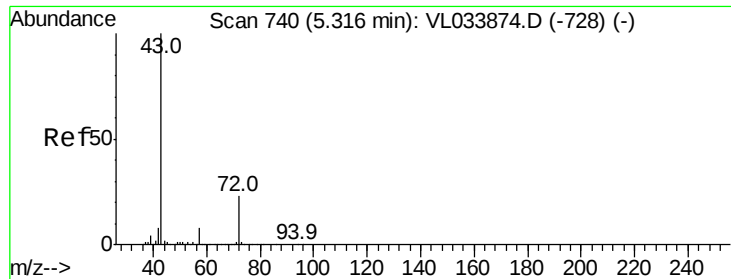
MMDadoda
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.26 min Scan# 1346
Delta R.T. -0.02 min
Lab File: VL033979.D
Acq: 26 Jun 2019 22:35

Tgt Ion	Ratio	Lower	Upper
114	100		
63	26.6	21.1	31.7
88	17.6	14.2	21.4





#34

2-Butanone

Concen: 1.198 ppbv

RT: 5.31 min Scan# 737

Delta R.T. -0.01 min

Lab File: VL033979.D

Acq: 26 Jun 2019 22:35

Instrument :

MSVOA_L

ClientSampleId :

SUB-SLAB

Tot Ion: 43 Resp: 130402

Ion Ratio Lower Upper

43 100

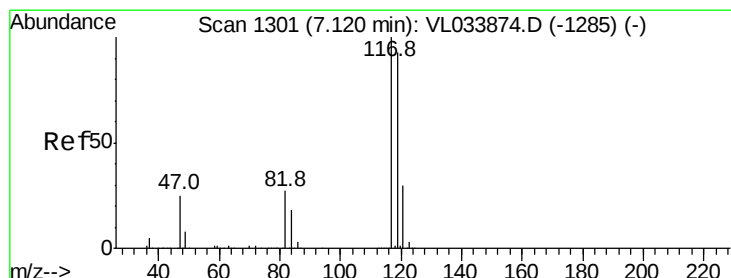
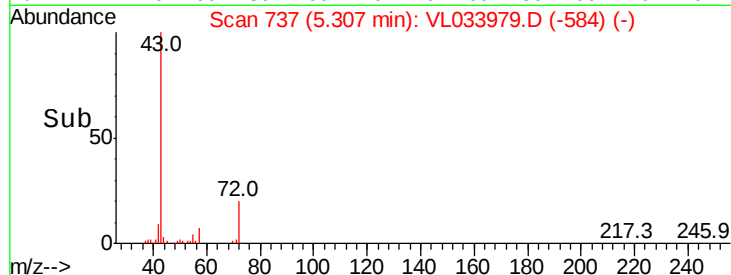
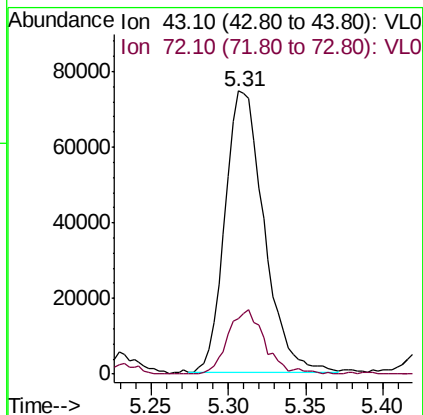
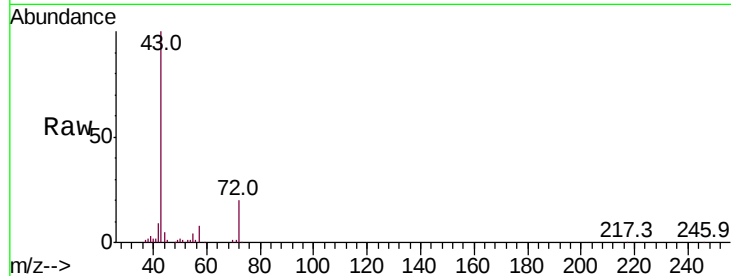
72 21.9 17.9 26.9

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#35

Carbon Tetrachloride

Concen: 0.079 ppbv m

RT: 7.10 min Scan# 1296

Delta R.T. -0.02 min

Lab File: VL033979.D

Acq: 26 Jun 2019 22:35

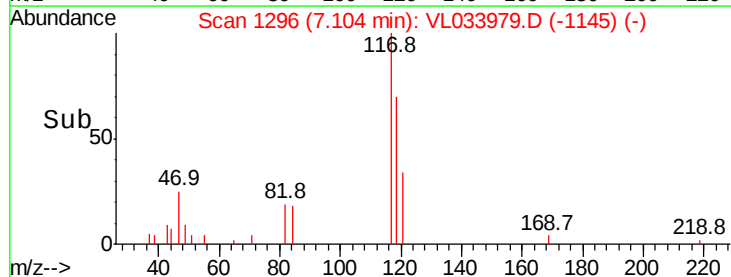
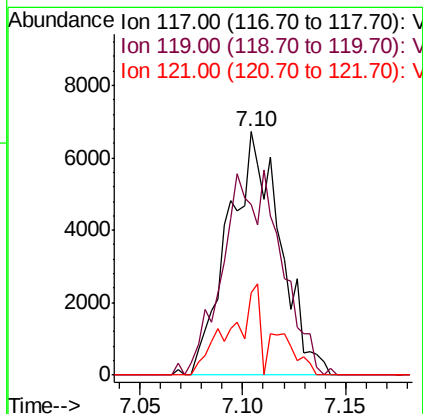
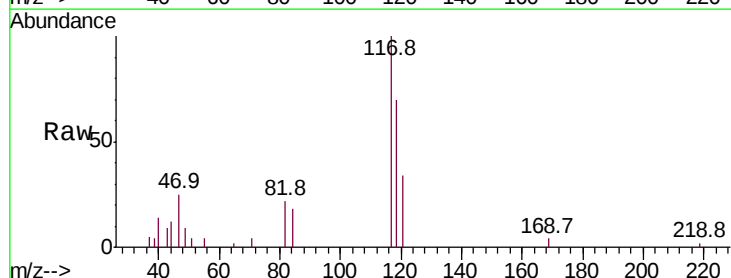
Tgt Ion: 117 Resp: 11838

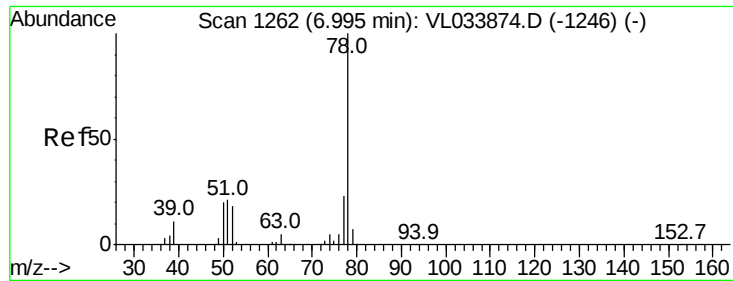
Ion Ratio Lower Upper

117 100

119 69.9 74.6 111.8#

121 34.0 24.0 36.0





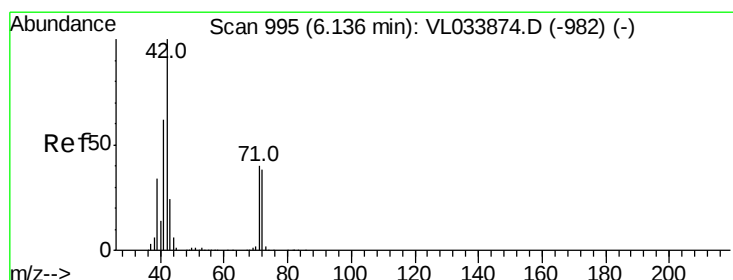
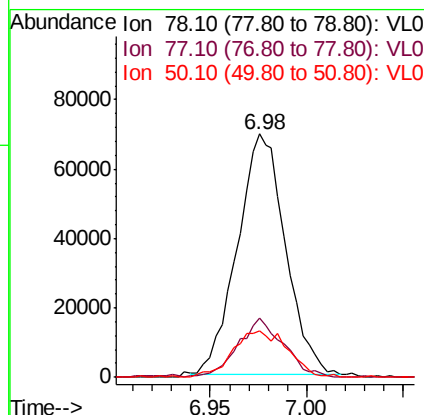
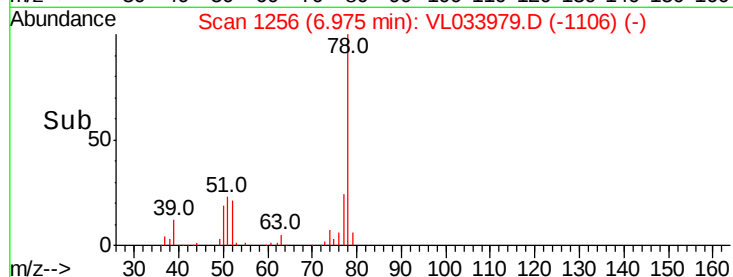
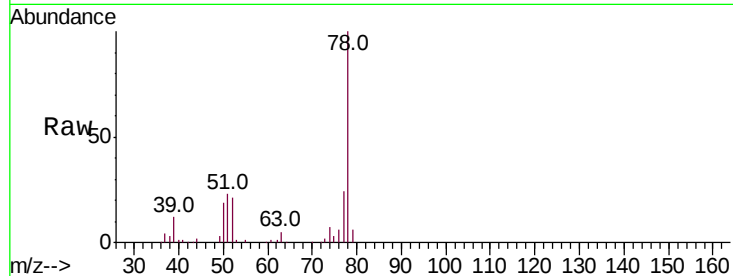
#36
Benzene
Concen: 0.816 ppbv
RT: 6.98 min Scan# 1256
Delta R.T. -0.02 min
Lab File: VL033979.D
Acq: 26 Jun 2019 22:35

Instrument :
MSVOA_L
ClientSampleId :
SUB-SLAB

Tot Ion	Ratio	Lower	Upper
78	100		
77	24.1	18.2	27.2
50	19.2	15.9	23.9

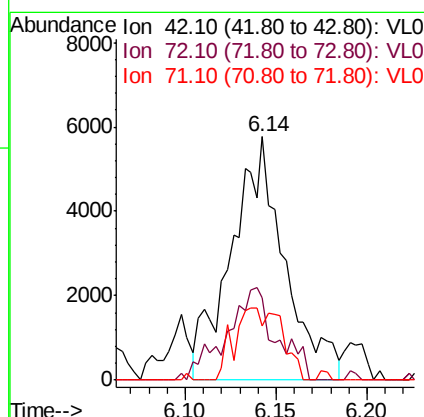
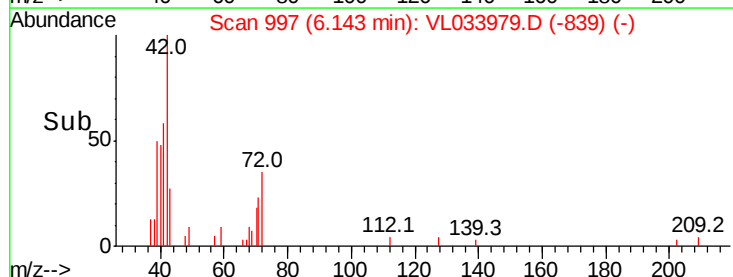
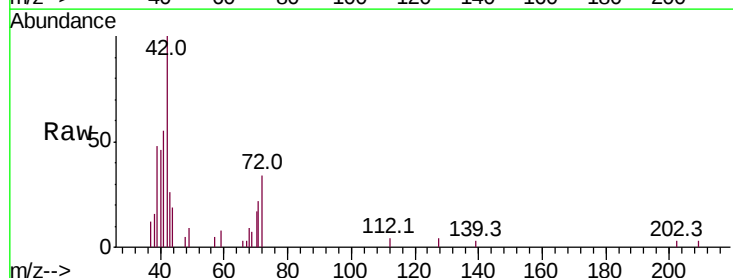
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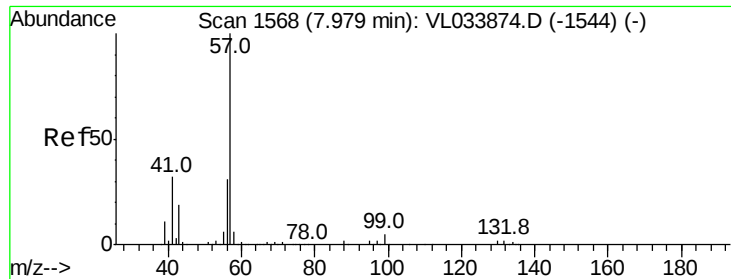
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#41
Tetrahydrofuran
Concen: 0.214 ppbv m
RT: 6.14 min Scan# 997
Delta R.T. 0.01 min
Lab File: VL033979.D
Acq: 26 Jun 2019 22:35

Tgt Ion	Ratio	Lower	Upper
42	100		
72	0.0	32.2	48.4#
71	27.0	31.7	47.5#





#44

2,2,4-Trimethylpentane

Concen: 1.448 ppbv

RT: 7.96 min Scan# 1563

Delta R.T. -0.02 min

Lab File: VL033979.D

Acq: 26 Jun 2019 22:35

Instrument :

MSVOA_L

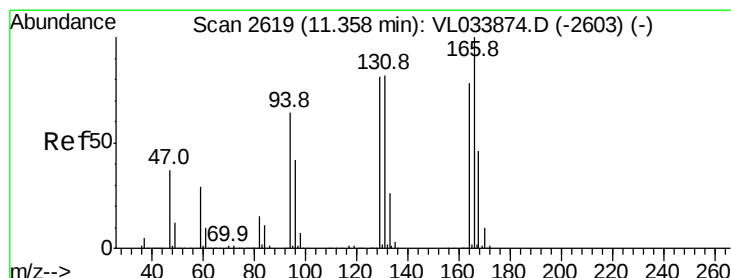
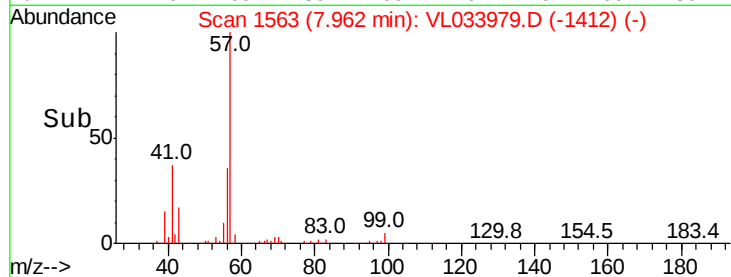
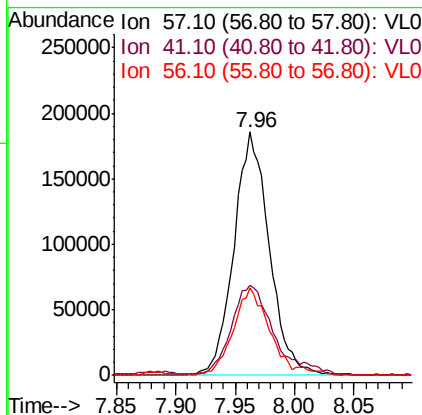
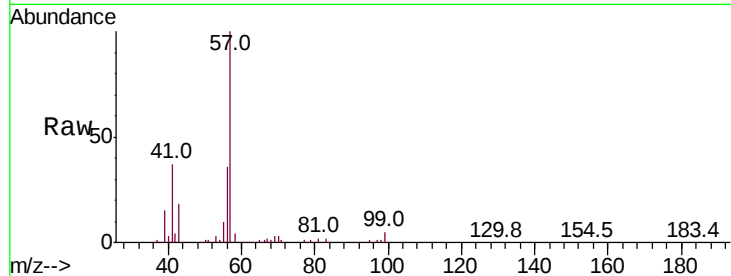
ClientSampleId :

SUB-SLAB

Tot Ion	57	Resp	379550
Ion Ratio	Lower	Upper	
57	100		
41	45.1	26.1	39.1#
56	37.9	24.6	36.8#

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#52

Tetrachloroethene

Concen: 0.069 ppbv m

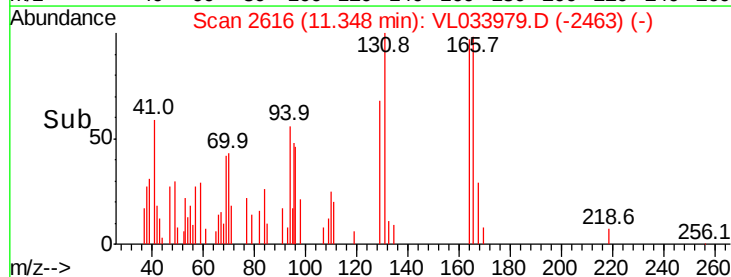
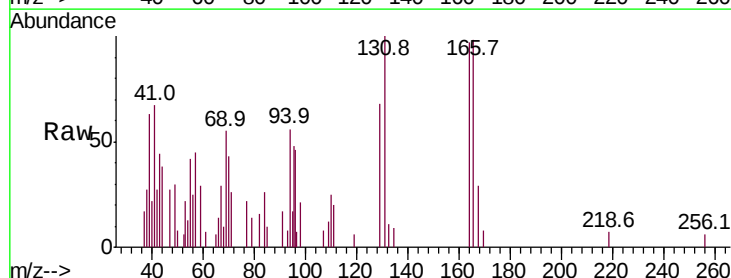
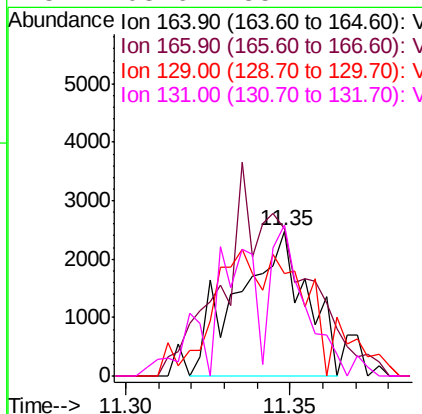
RT: 11.35 min Scan# 2616

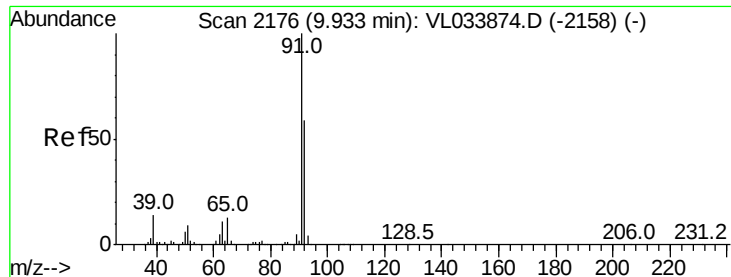
Delta R.T. -0.01 min

Lab File: VL033979.D

Acq: 26 Jun 2019 22:35

Tgt Ion	164	Resp	3564
Ion Ratio	Lower	Upper	
164	100		
166	101.7	103.1	154.7#
129	70.4	83.9	125.9#
131	103.6	85.1	127.7





#53

Toluene

Concen: 4.492 ppbv

RT: 9.92 min Scan# 2171

Delta R.T. -0.02 min

Lab File: VL033979.D

Acq: 26 Jun 2019 22:35

Instrument :

MSVOA_L

ClientSampleId :

SUB-SLAB

Tot Ion: 91 Resp: 732489

Ion Ratio Lower Upper

91 100

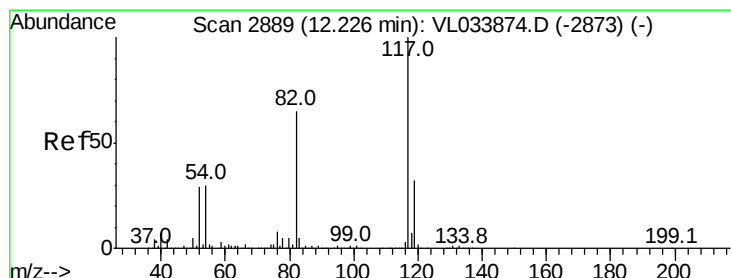
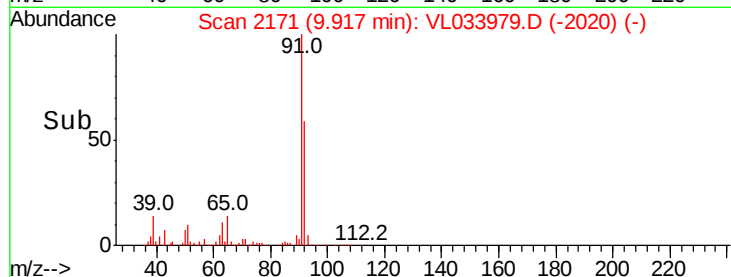
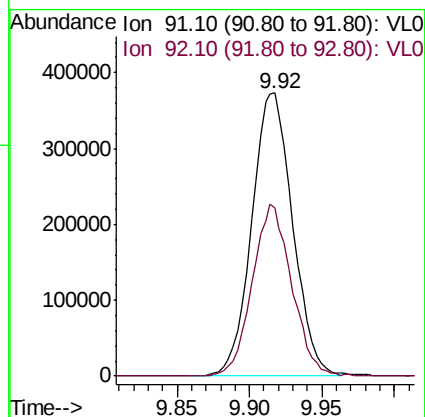
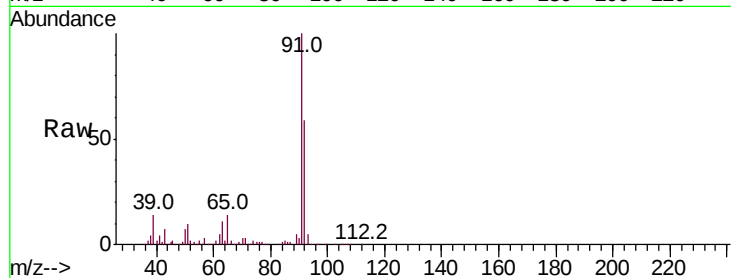
92 58.5 47.0 70.6

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.21 min Scan# 2883

Delta R.T. -0.02 min

Lab File: VL033979.D

Acq: 26 Jun 2019 22:35

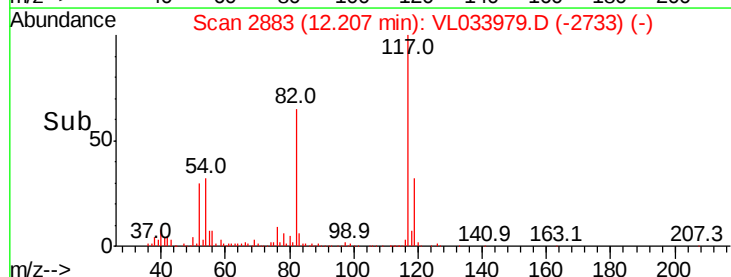
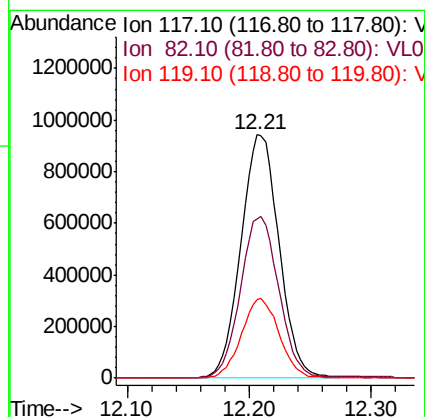
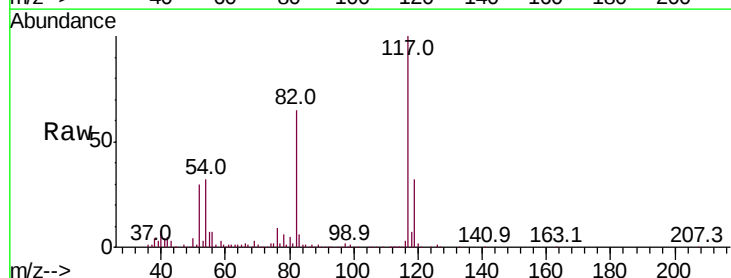
Tgt Ion: 117 Resp: 2036049

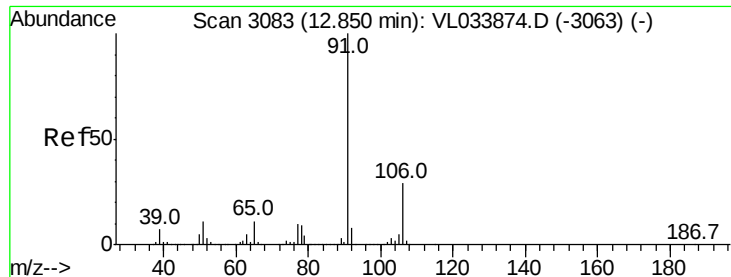
Ion Ratio Lower Upper

117 100

82 66.9 50.2 75.2

119 32.5 24.8 37.2





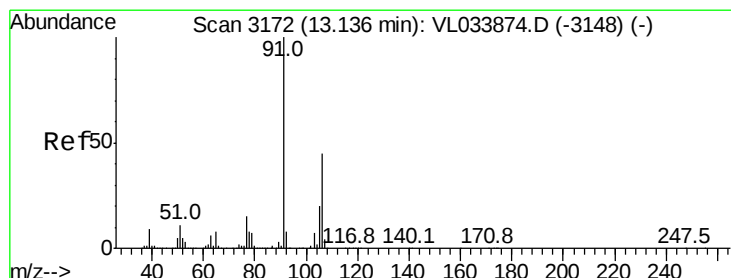
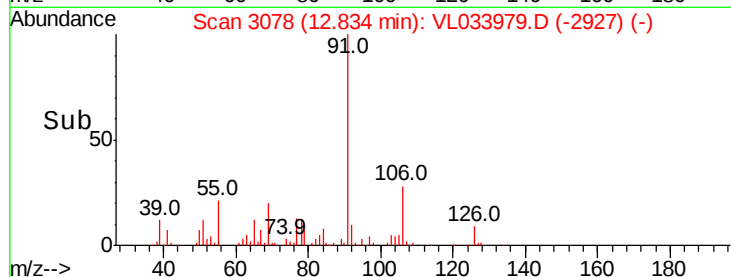
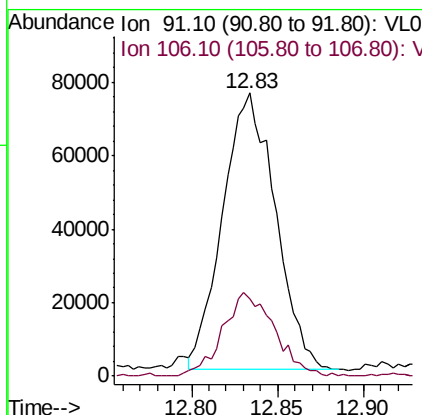
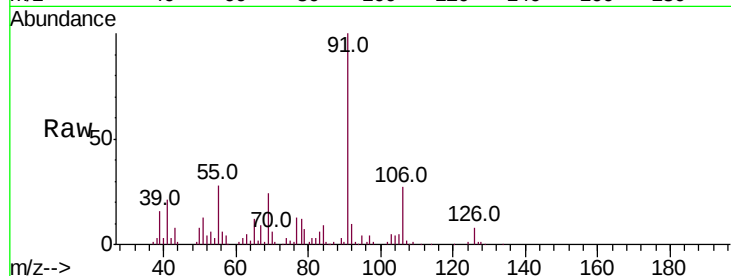
#58
Ethyl Benzene
Concen: 0.701 ppbv
RT: 12.83 min Scan# 3078
Delta R.T. -0.02 min
Lab File: VL033979.D
Acq: 26 Jun 2019 22:35

Instrument :
MSVOA_L
ClientSampleId :
SUB-SLAB

Tot Ion	Ratio	Lower	Upper
91	100		
106	26.8	23.0	34.6

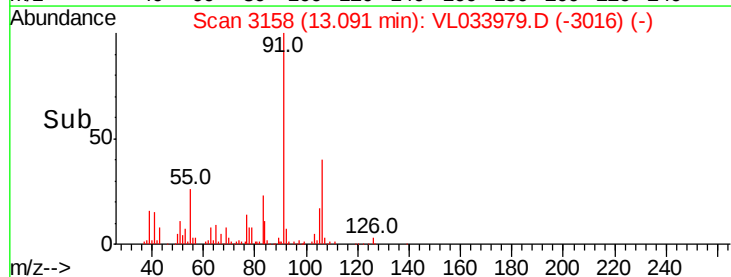
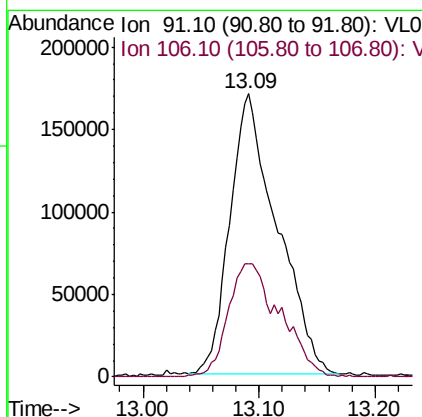
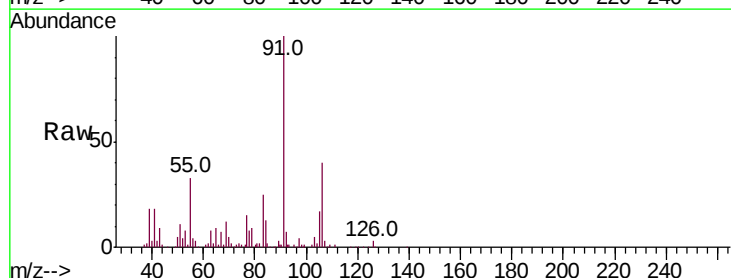
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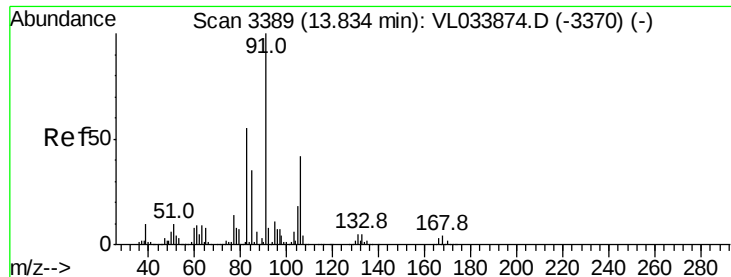
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#59
m/p-Xylene
Concen: 2.300 ppbv
RT: 13.09 min Scan# 3158
Delta R.T. -0.04 min
Lab File: VL033979.D
Acq: 26 Jun 2019 22:35

Tgt Ion	Ratio	Lower	Upper
91	100		
106	44.4	35.8	53.8





#60

o-Xylene

Concen: 0.797 ppbv

RT: 13.82 min Scan# 3384

Delta R.T. -0.02 min

Lab File: VL033979.D

Acq: 26 Jun 2019 22:35

Instrument :

MSVOA_L

ClientSampleId :

SUB-SLAB

Tot Ion: 91 Resp: 171708

Ion Ratio Lower Upper

91 100

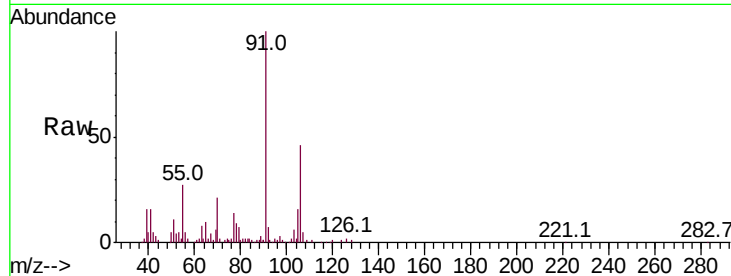
106 41.9 21.7 65.1

Manual Integrations

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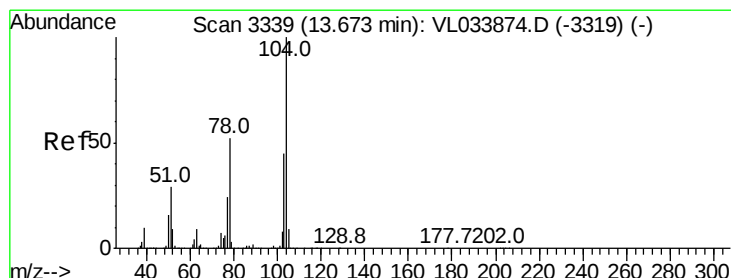
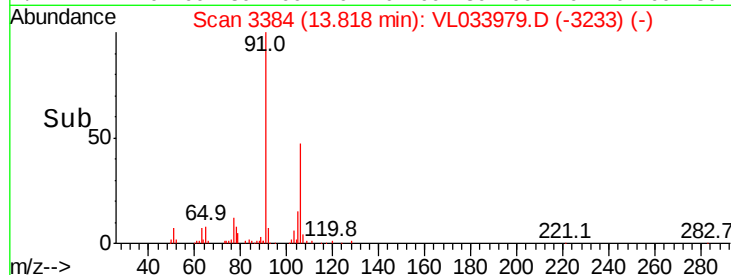
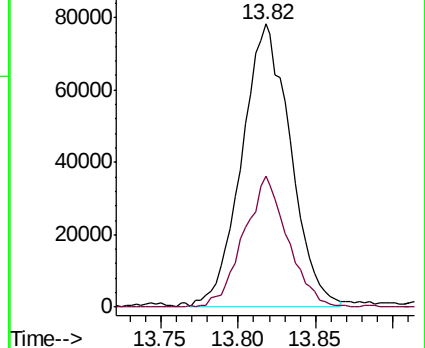
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#61

Styrene

Concen: 0.162 ppbv

RT: 13.65 min Scan# 3333

Delta R.T. -0.02 min

Lab File: VL033979.D

Acq: 26 Jun 2019 22:35

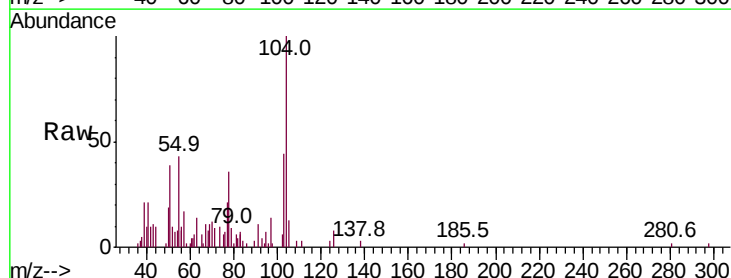
Tgt Ion: 104 Resp: 22623

Ion Ratio Lower Upper

104 100

78 64.0 43.4 65.0

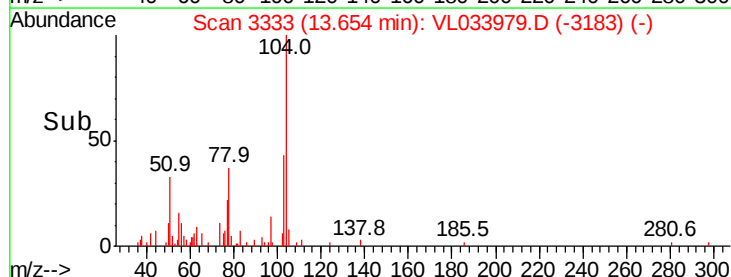
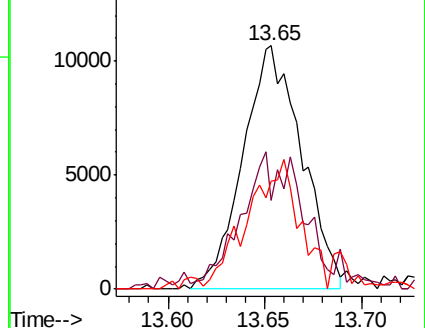
103 55.1 37.6 56.4

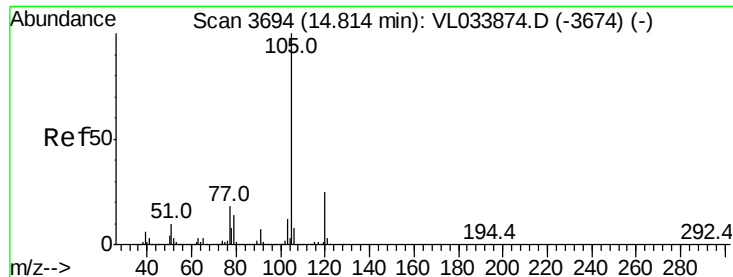


Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V





#62

Isopropylbenzene

Concen: 0.819 ppbv

RT: 14.79 min Scan# 3688

Delta R.T. -0.02 min

Lab File: VL033979.D

Acq: 26 Jun 2019 22:35

Instrument :

MSVOA_L

ClientSampleId :

SUB-SLAB

Tot Ion:105 Resp: 237882

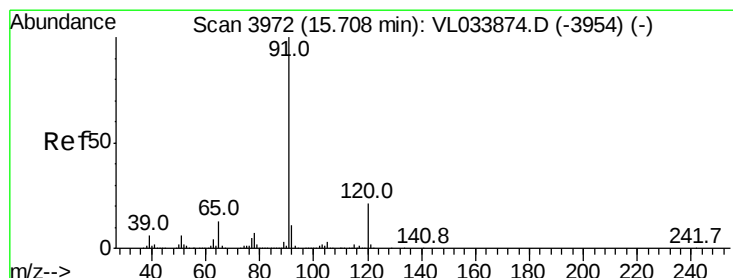
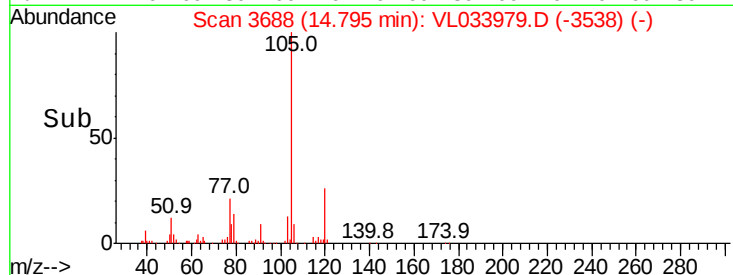
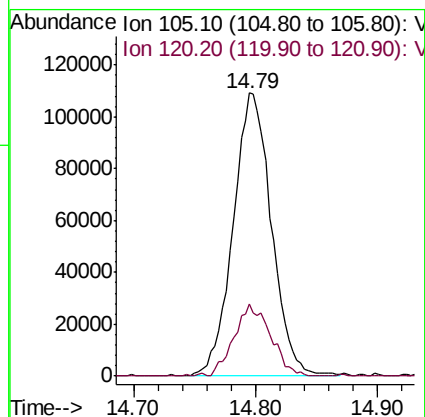
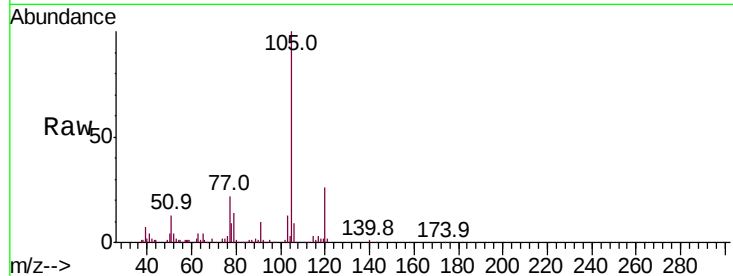
Ion Ratio Lower Upper

105 100

120 24.3 20.3 30.5

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#64

n-propylbenzene

Concen: 0.144 ppbv m

RT: 15.69 min Scan# 3966

Delta R.T. -0.02 min

Lab File: VL033979.D

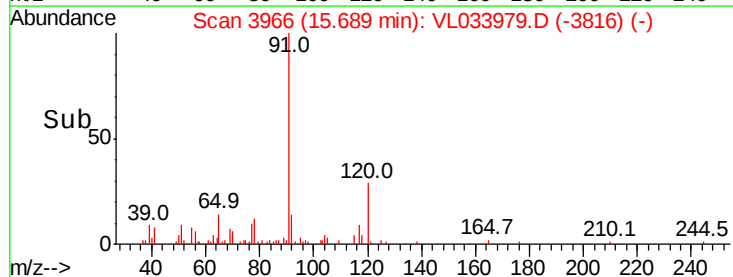
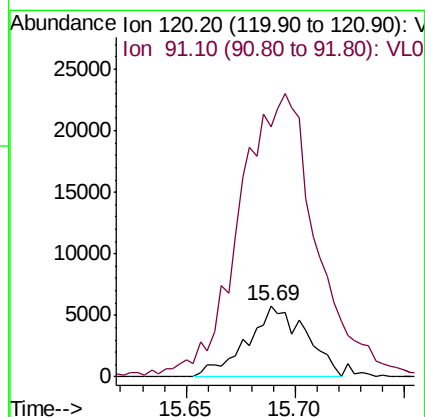
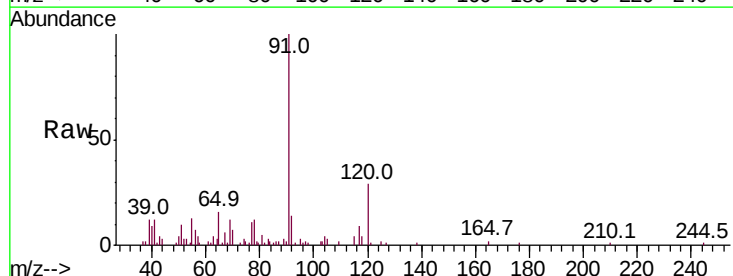
Acq: 26 Jun 2019 22:35

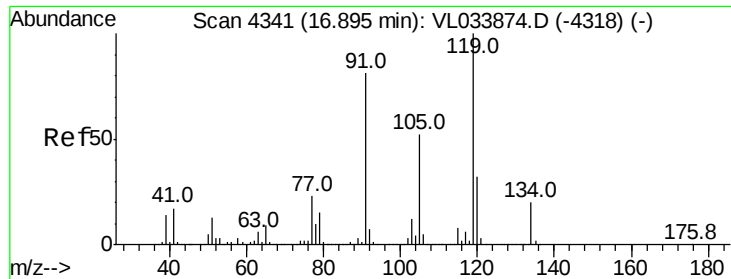
Tgt Ion:120 Resp: 10749

Ion Ratio Lower Upper

120 100

91 0.0 387.0 580.6#





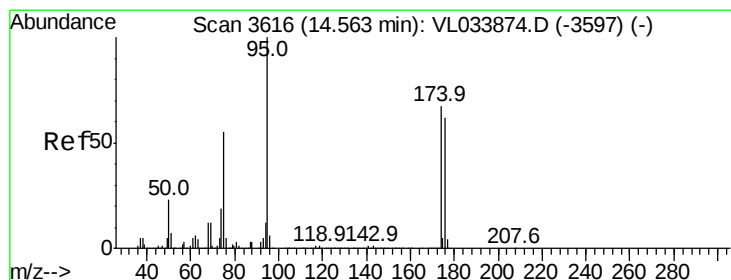
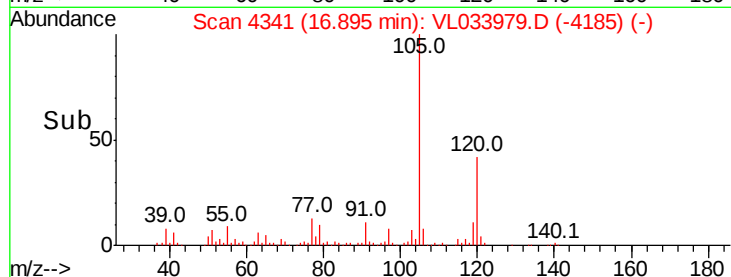
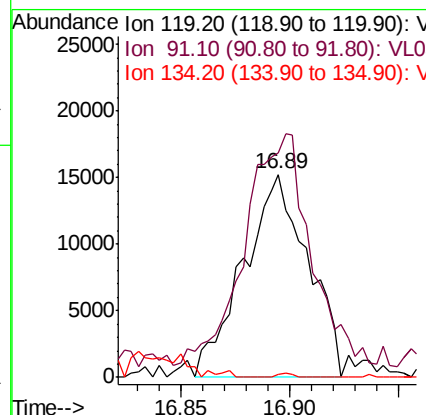
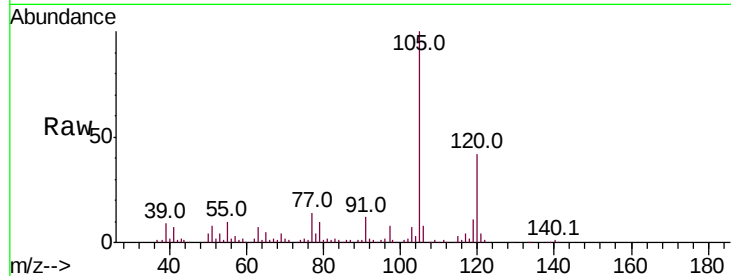
#65
tert-Butylbenzene
Concen: 0.117 ppbv m
RT: 16.89 min Scan# 4341
Delta R.T. 0.00 min
Lab File: VL033979.D
Acq: 26 Jun 2019 22:35

Instrument :
MSVOA_L
ClientSampleId :
SUB-SLAB

Tot Ion	Ratio	Lower	Upper
119	100		
91	0.0	66.6	100.0#
134	0.0	15.5	23.3#

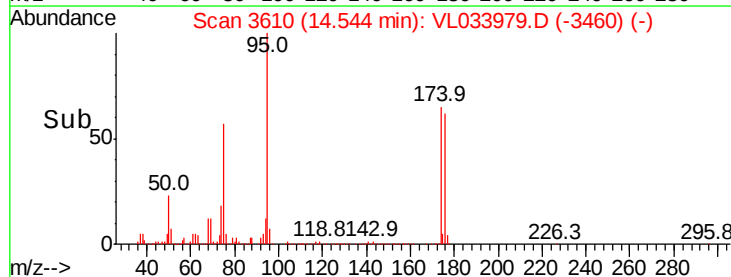
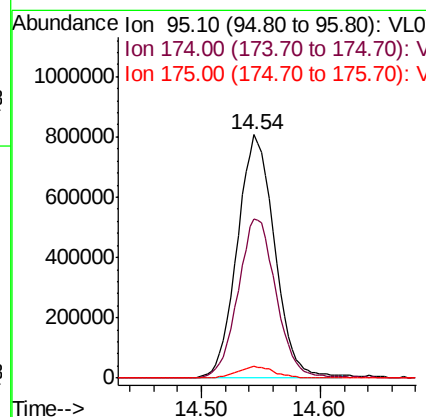
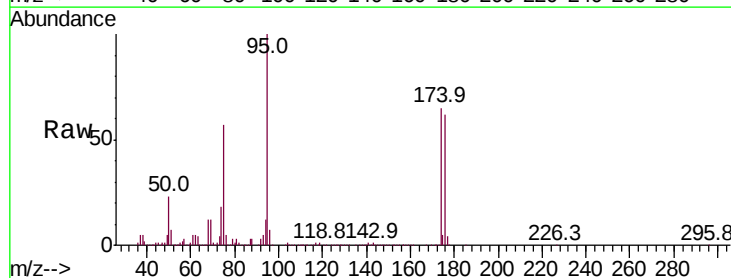
Manual Integrations
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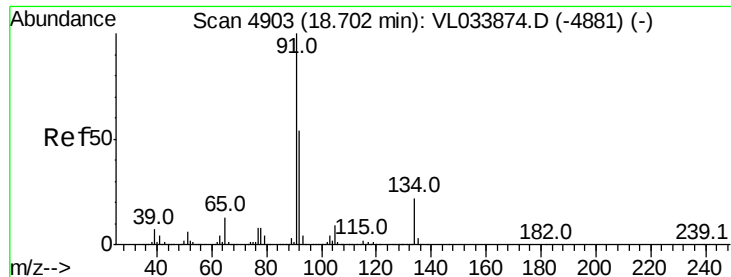
MMDadoda
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.472 ppbv
RT: 14.54 min Scan# 3610
Delta R.T. -0.02 min
Lab File: VL033979.D
Acq: 26 Jun 2019 22:35

Tgt Ion	Ratio	Lower	Upper
95	100		
174	67.4	54.0	81.0
175	4.9	3.8	5.8





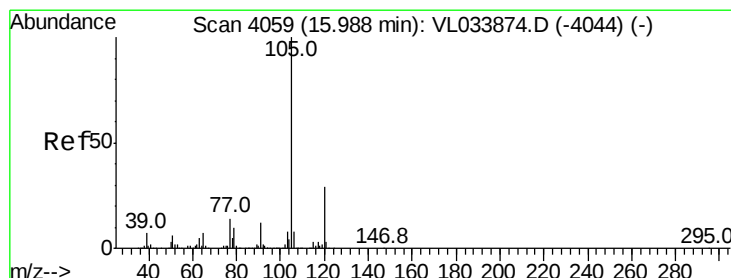
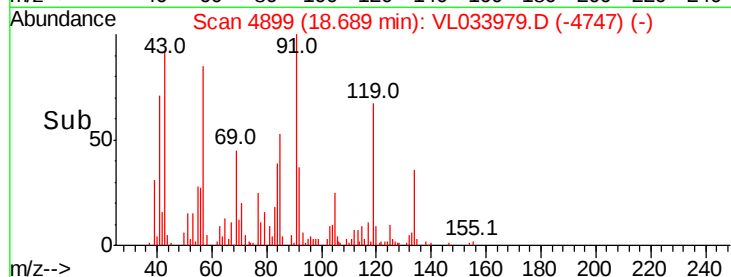
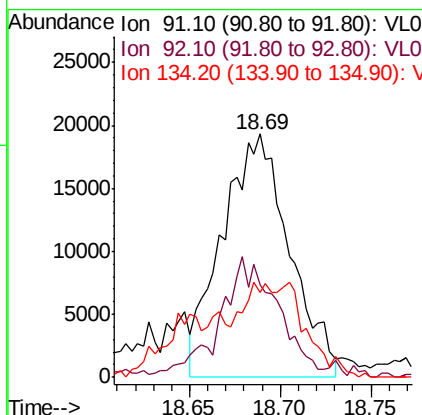
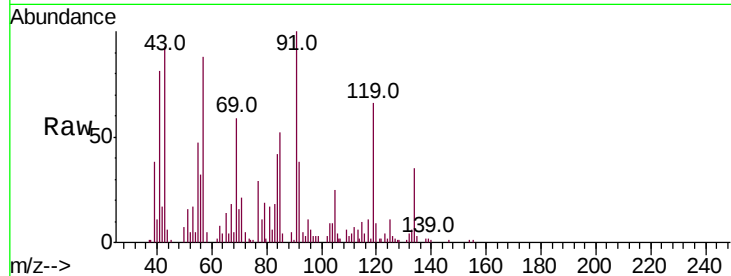
#70
n-Butylbenzene
Concen: 0.146 ppbv m
RT: 18.69 min Scan# 4899
Delta R.T. -0.01 min
Lab File: VL033979.D
Acq: 26 Jun 2019 22:35

Instrument :
MSVOA_L
ClientSampled :
SUB-SLAB

Tot Ion	Ratio	Resp	Lower	Upper
91	100	50109		
92	44.6		42.5	63.7
134	0.0		17.8	26.6#

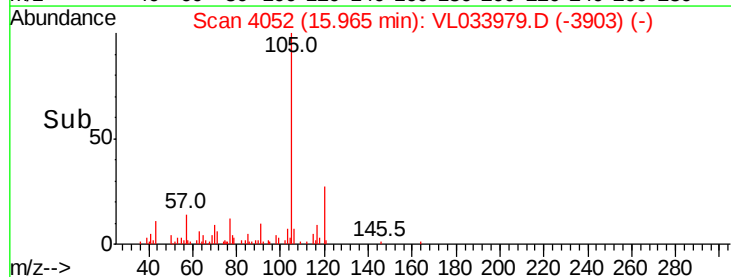
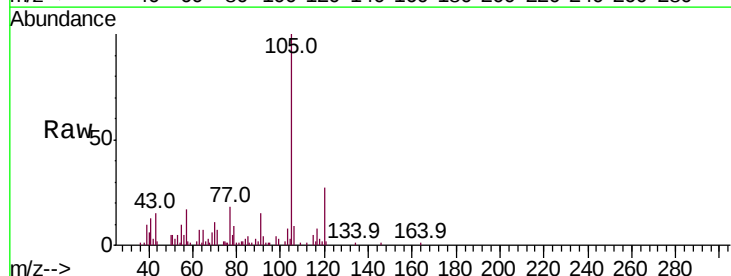
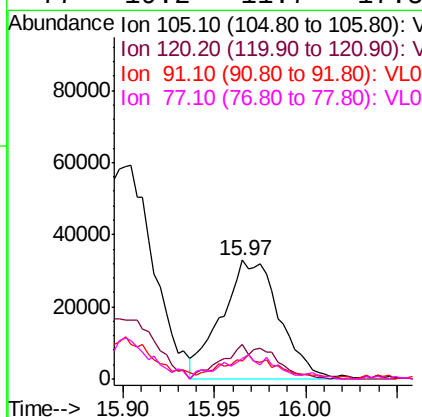
Manual Integrations
APPROVED

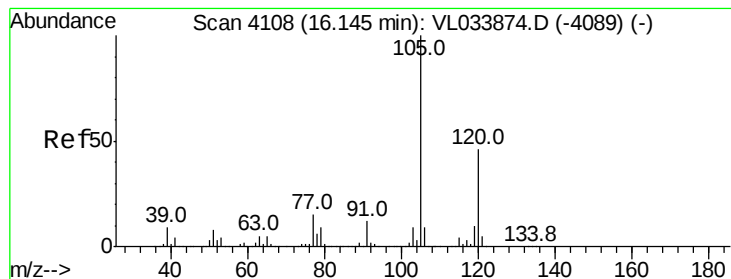
MMDadoda
6/29/2019 7:23:07 AM



#72
4-Ethyltoluene
Concen: 0.295 ppbv m
RT: 15.97 min Scan# 4052
Delta R.T. -0.02 min
Lab File: VL033979.D
Acq: 26 Jun 2019 22:35

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	72388		
120	26.8		23.5	35.3
91	19.0		10.4	15.6#
77	19.2		11.7	17.5#





#73

1,3,5-Trimethylbenzene

Concen: 0.221 ppbv m

RT: 16.12 min Scan# 4101

Delta R.T. -0.02 min

Lab File: VL033979.D

Acq: 26 Jun 2019 22:35

Instrument :

MSVOA_L

ClientSampled :

SUB-SLAB

Tot Ion:105 Resp: 53505

Ion Ratio Lower Upper

105 100

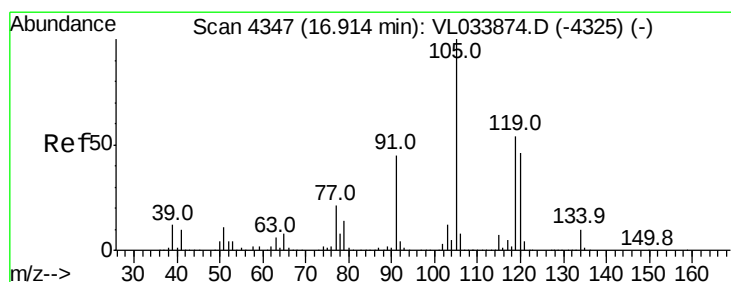
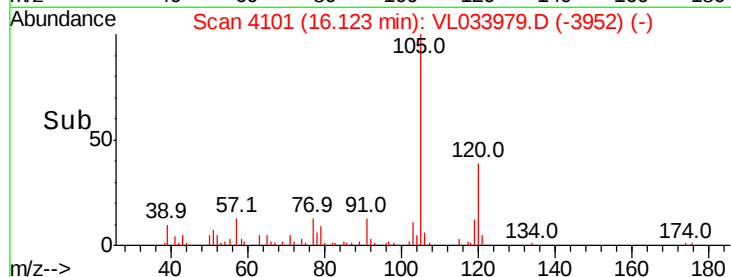
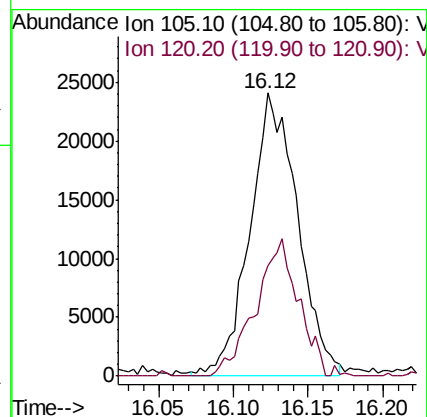
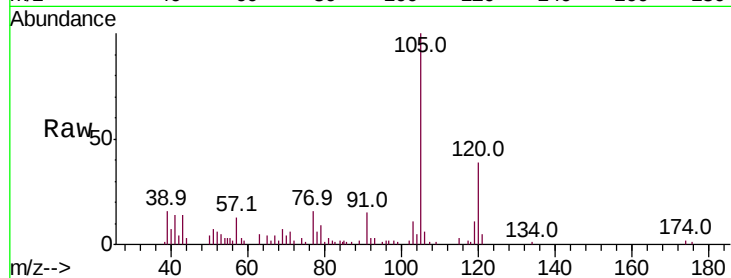
120 39.1 37.1 55.7

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#74

1,2,4-Trimethylbenzene

Concen: 1.079 ppbv

RT: 16.89 min Scan# 4341

Delta R.T. -0.02 min

Lab File: VL033979.D

Acq: 26 Jun 2019 22:35

Tgt Ion:105 Resp: 300457

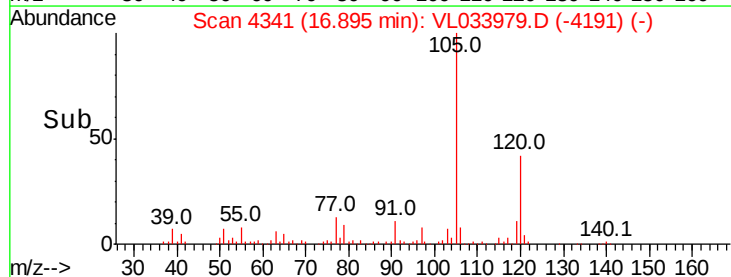
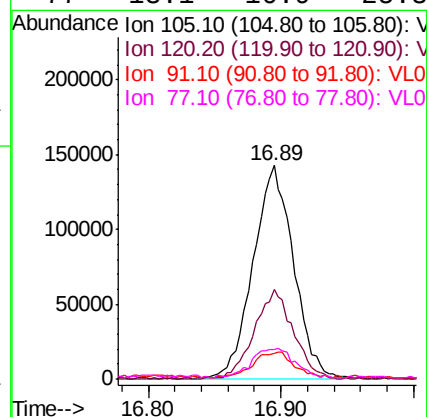
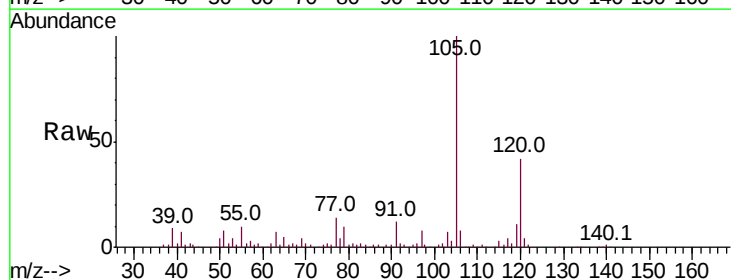
Ion Ratio Lower Upper

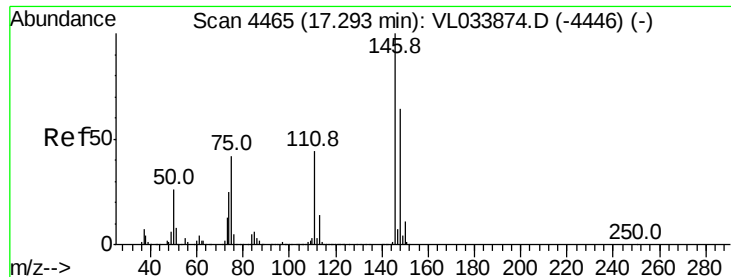
105 100

120 42.1 36.7 55.1

91 10.9 35.8 53.8#

77 13.1 16.9 25.3#





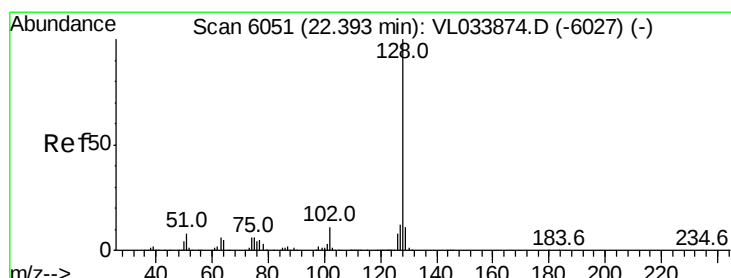
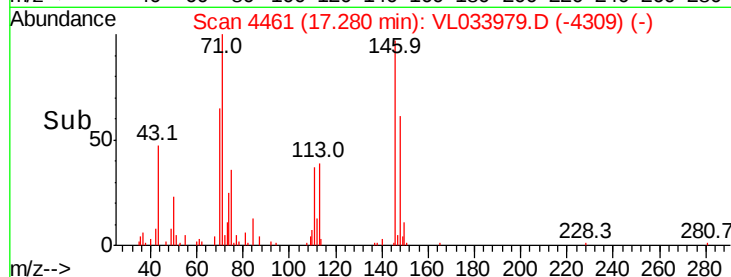
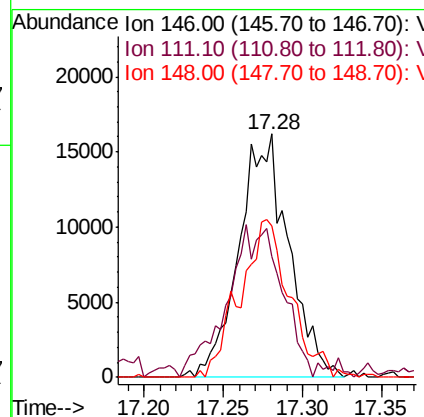
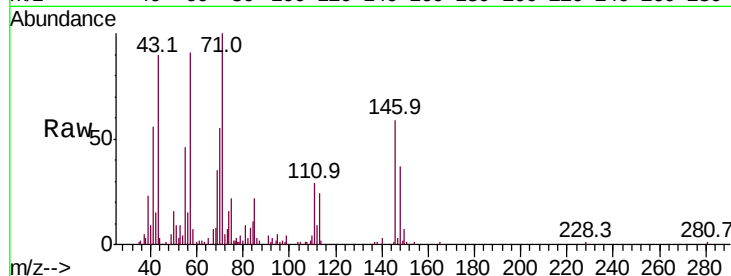
#76
1,4-Dichlorobenzene
Concen: 0.217 ppbv m
RT: 17.28 min Scan# 4461
Delta R.T. -0.01 min
Lab File: VL033979.D
Acq: 26 Jun 2019 22:35

Instrument :
MSVOA_L
ClientSampleId :
SUB-SLAB

Tot Ion	Ratio	Lower	Upper
146	100		
111	73.9	22.1	66.5#
148	0.0	32.4	97.0#

Manual Integrations
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#79
Naphthalene
Concen: 0.333 ppbv m
RT: 22.37 min Scan# 6044
Delta R.T. -0.02 min
Lab File: VL033979.D
Acq: 26 Jun 2019 22:35

Tgt Ion	Ratio	Lower	Upper
128	100		
127	10.3	9.7	14.5
129	10.1	8.6	12.8

