

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090518\
 Data File : VL032477.D
 Acq On : 6 Sep 2018 5:08
 Operator : SY/AP
 Sample : J4745-04DL 20X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VP-7DL

Manual Integrations
 APPROVED

MMDadoda
 9/7/2018 10:46:12 AM

Quant Time: Sep 07 08:57:58 2018

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

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

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

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.80	49	1479399	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.33	114	2990173	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.29	117	2873739	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.63	95	2232056	10.46	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.60%

Target Compounds

						Ovalue
9) Propene	3.06	41	332585	6.16	ppbv	94
13) Ethanol	3.68	45	123125	7.31	ppbv	96
15) Acetone	3.93	43	1435773	10.78	ppbv	97
16) 1,3-Butadiene	3.38	39	78400m	1.25	ppbv	
17) tert-Butyl alcohol	4.40	59	107637	5.25	ppbv #	100
26) Hexane	5.82	57	97066	0.69	ppbv #	41
27) Carbon Disulfide	4.66	76	21131	0.16	ppbv #	85
34) 2-Butanone	5.37	43	1259926	6.34	ppbv	99
36) Benzene	7.05	78	56185	0.22	ppbv	99
50) 4-Methyl-2-Pentanone	8.93	43	49842	0.17	ppbv	99
51) 2-Hexanone	10.32	43	53776m	0.28	ppbv	
53) Toluene	9.99	91	230325	0.87	ppbv	98
58) Ethyl Benzene	12.91	91	86896m	0.25	ppbv	
59) m/p-Xylene	13.17	91	265232m	0.87	ppbv	
60) o-Xylene	13.90	91	87956	0.29	ppbv	99
72) 4-Ethyltoluene	16.04	105	53435m	0.16	ppbv	
74) 1,2,4-Trimethylbenzene	16.98	105	115348	0.32	ppbv #	67

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

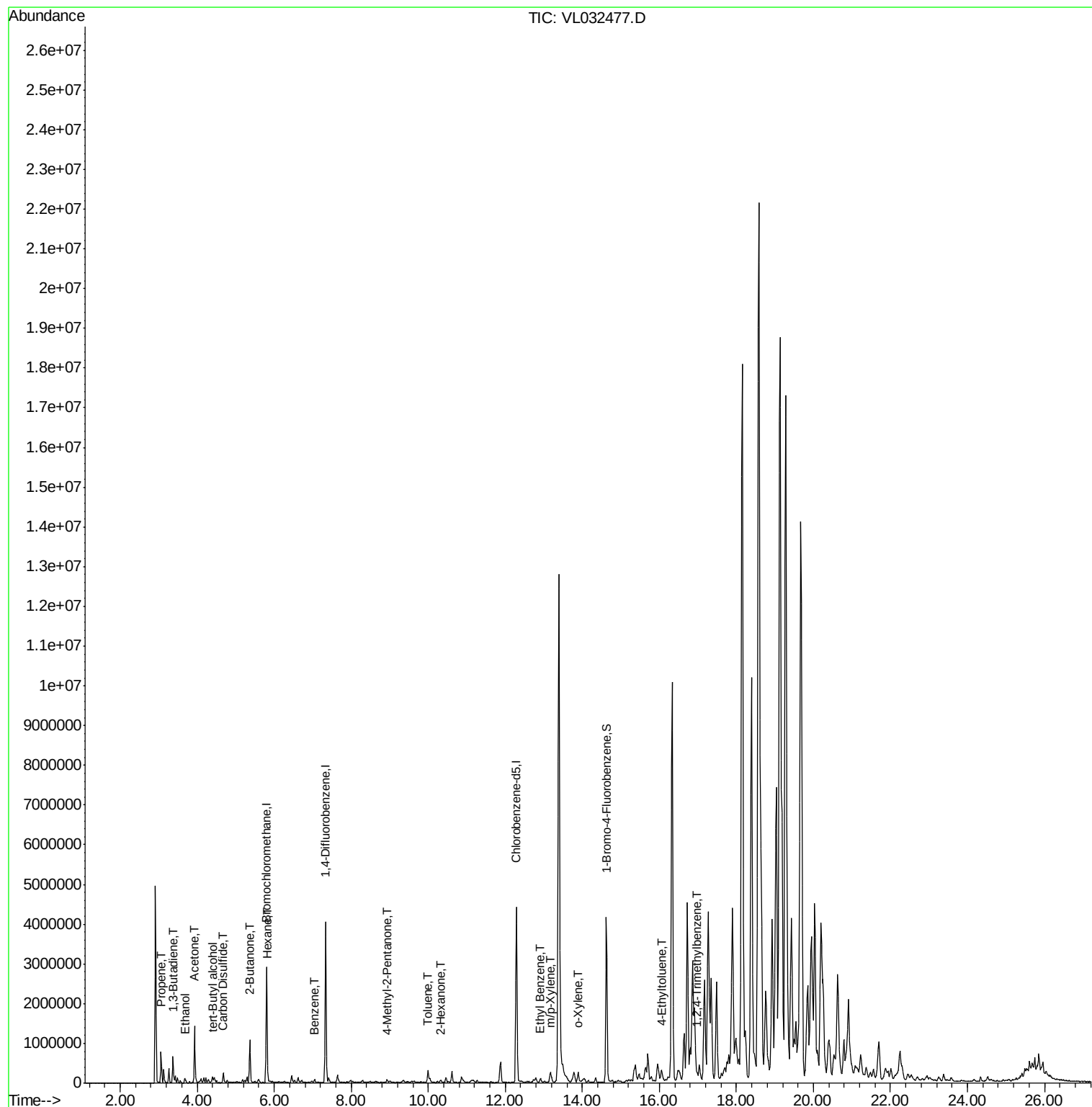
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL090518\
Data File : VL032477.D
Acq On : 6 Sep 2018 5:08
Operator : SY/AP
Sample : J4745-04DL 20X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

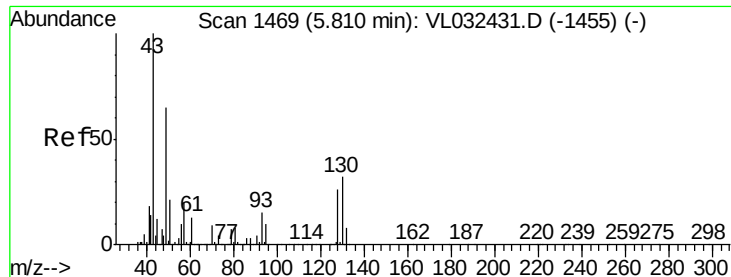
Instrument :
MSVOA_L
ClientSampleId :
VP-7DL

Manual Integrations
APPROVED

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9/7/2018 10:46:12 AM

Quant Time: Sep 07 08:57:58 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL083118AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Aug 31 21:33:46 2018
Response via : Initial Calibration





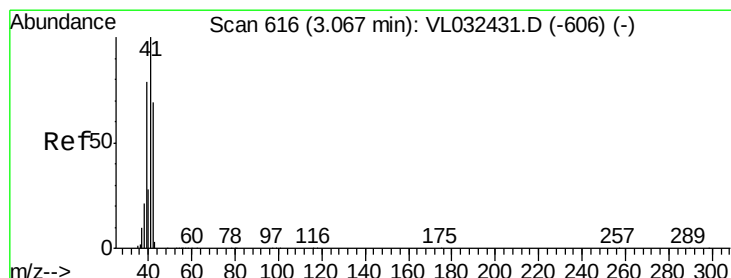
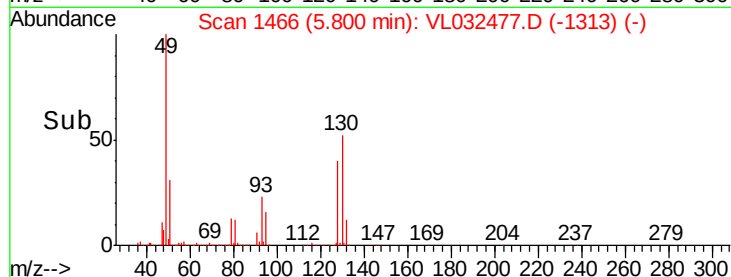
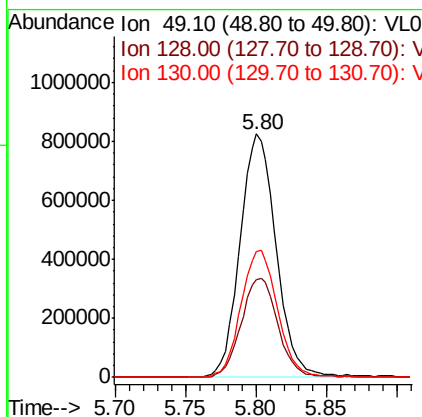
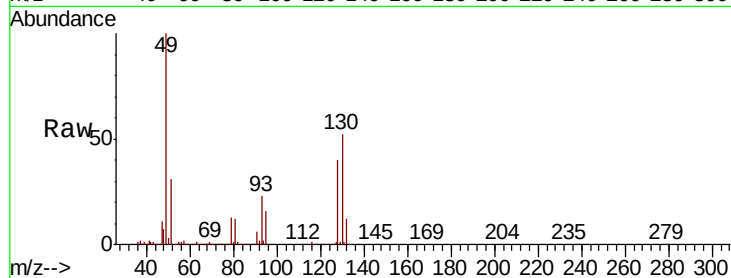
#1
 Bromochloromethane
 Concen: 10.00 ppbv
 RT: 5.80 min Scan# 1466
 Delta R.T. -0.01 min
 Lab File: VL032477.D
 Acq: 6 Sep 2018 5:08

Instrument :
 MSVOA_L
 ClientSampled :
 VP-7DL

Tot Ion: 49 Resp: 1479399
 Ion Ratio Lower Upper
 49 100
 128 41.6 20.7 62.1
 130 53.1 26.6 79.7

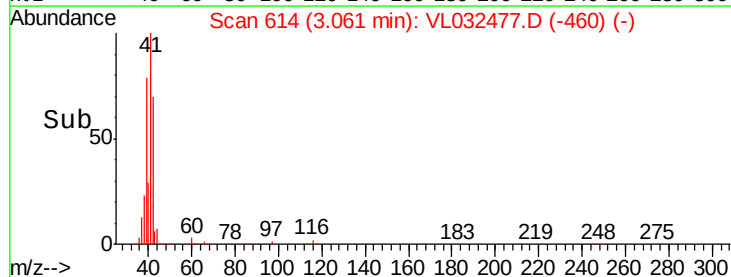
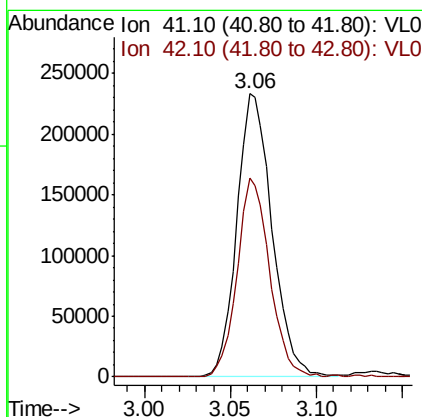
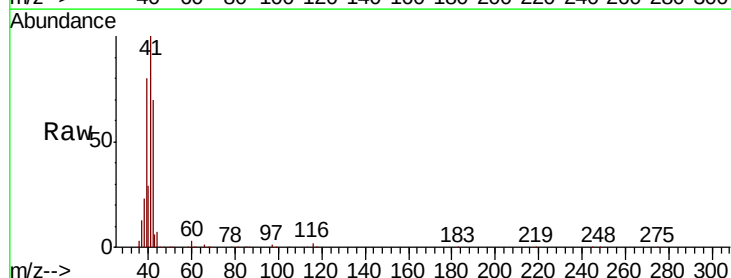
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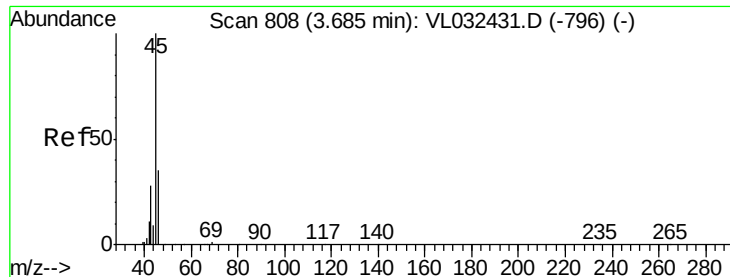
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#9
 Propene
 Concen: 6.16 ppbv
 RT: 3.06 min Scan# 614
 Delta R.T. -0.01 min
 Lab File: VL032477.D
 Acq: 6 Sep 2018 5:08

Tgt Ion: 41 Resp: 332585
 Ion Ratio Lower Upper
 41 100
 42 65.7 56.6 84.8





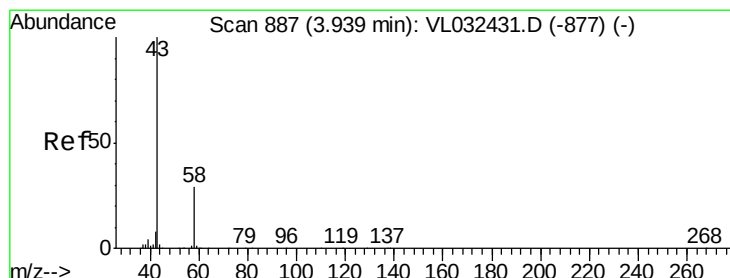
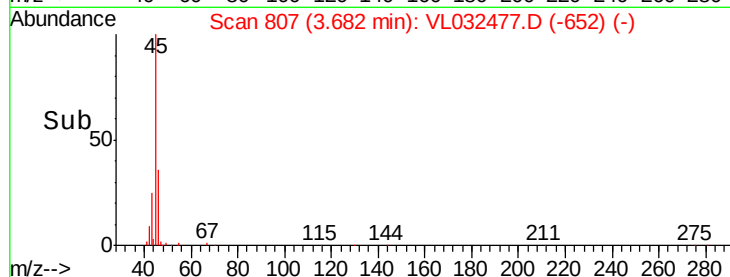
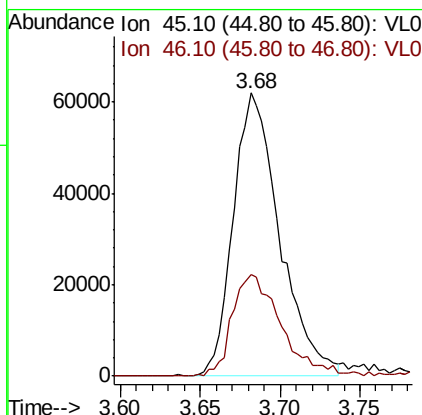
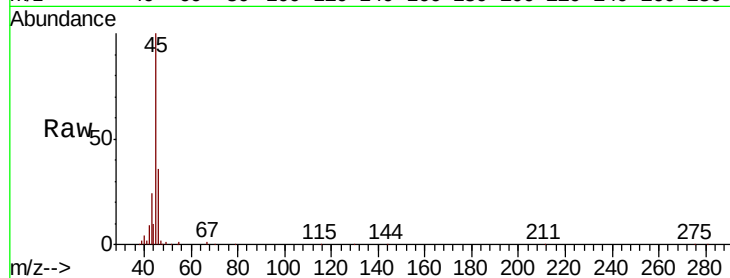
#13
Ethanol
Concen: 7.31 ppbv
RT: 3.68 min Scan# 807
Delta R.T. -0.00 min
Lab File: VL032477.D
Acq: 6 Sep 2018 5:08

Instrument :
MSVOA_L
ClientSampled :
VP-7DL

Tot Ion	Ratio	Lower	Upper
45	100		
46	38.1	14.2	56.8

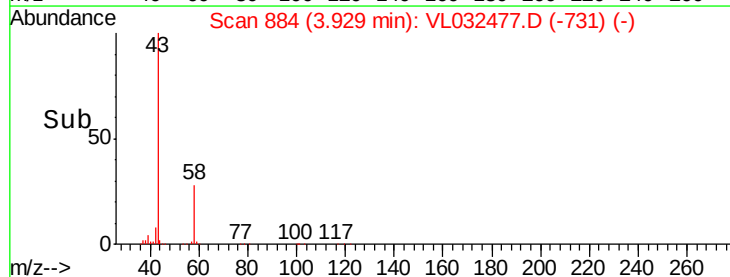
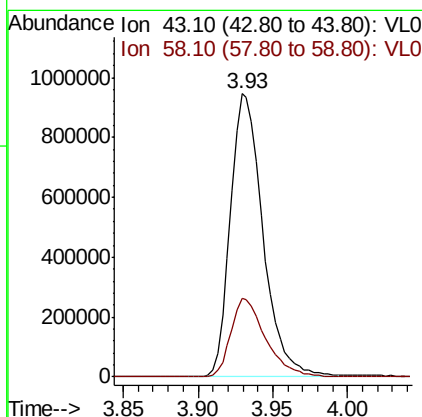
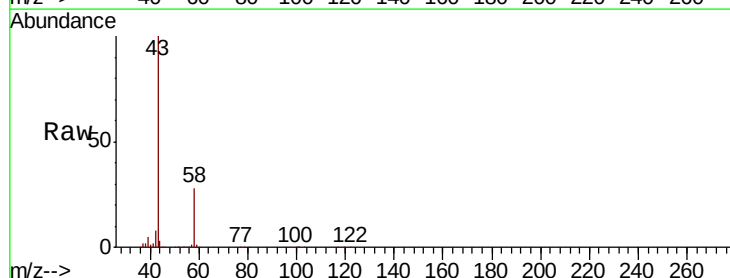
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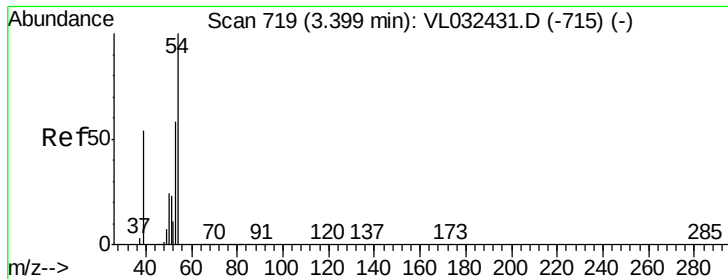
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#15
Acetone
Concen: 10.78 ppbv
RT: 3.93 min Scan# 884
Delta R.T. -0.01 min
Lab File: VL032477.D
Acq: 6 Sep 2018 5:08

Tgt Ion	Ratio	Lower	Upper
43	100		
58	29.8	22.6	33.8





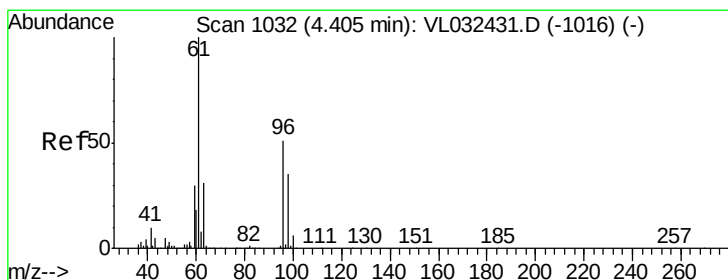
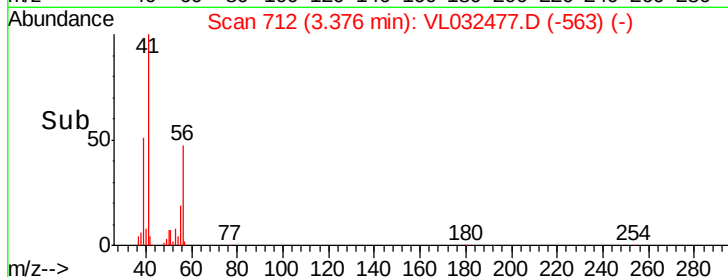
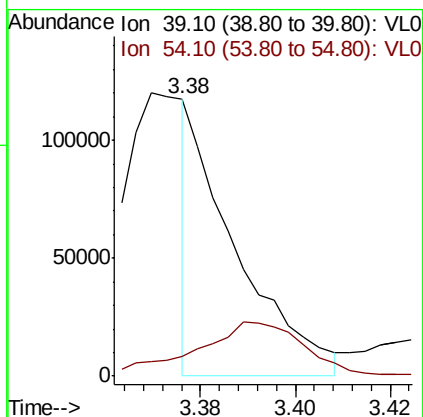
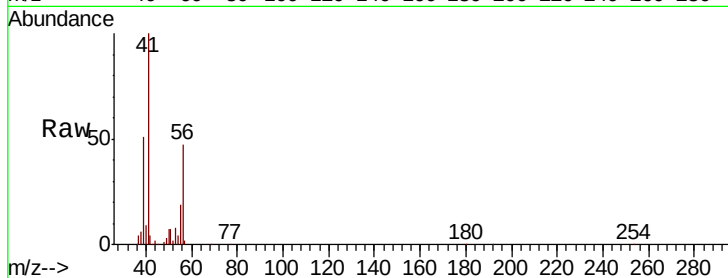
#16
1,3-Butadiene
Concen: 1.25 ppbv m
RT: 3.38 min Scan# 712
Delta R.T. -0.02 min
Lab File: VL032477.D
Acq: 6 Sep 2018 5:08

Instrument :
MSVOA_L
ClientSampled :
VP-7DL

Tot Ion	Ratio	Lower	Upper
39	100		
54	48.1	80.8	121.2#

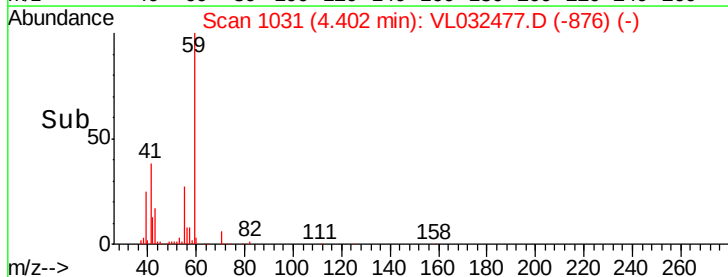
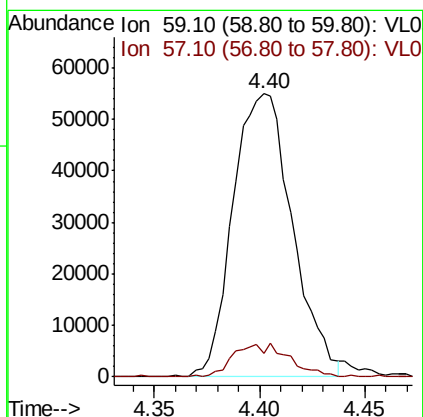
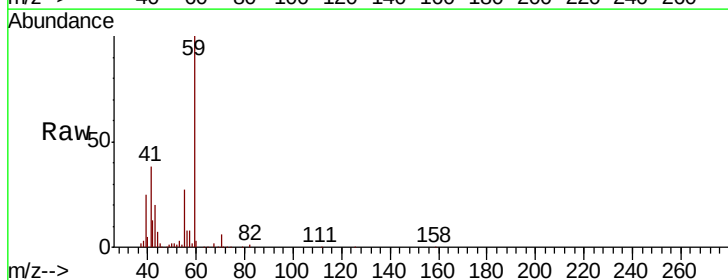
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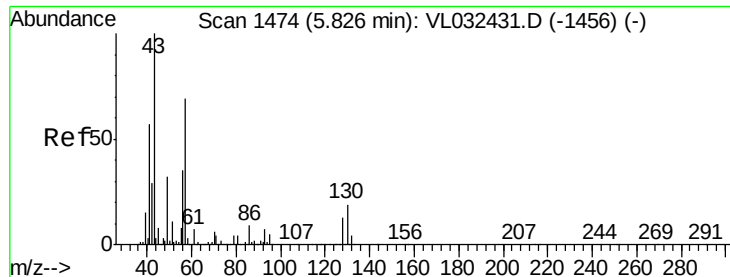
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#17
tert-Butyl alcohol
Concen: 5.25 ppbv
RT: 4.40 min Scan# 1031
Delta R.T. -0.00 min
Lab File: VL032477.D
Acq: 6 Sep 2018 5:08

Tgt Ion	Ratio	Lower	Upper
59	100		
57	11.1	0.0	0.0#





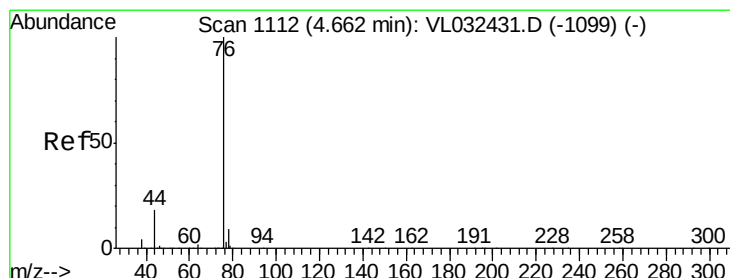
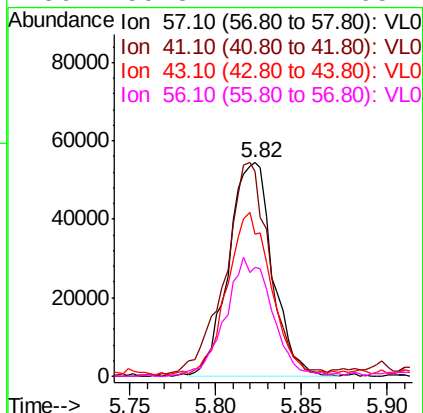
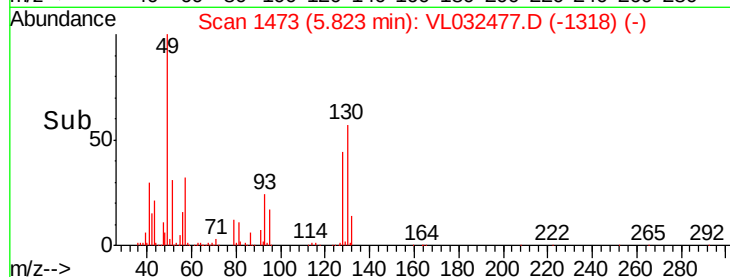
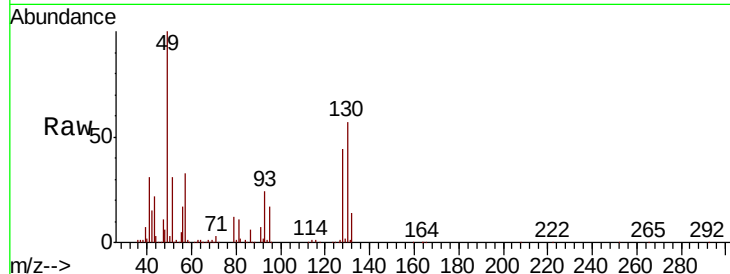
#26
Hexane
Concen: 0.69 ppbv
RT: 5.82 min Scan# 1473
Delta R.T. -0.00 min
Lab File: VL032477.D
Acq: 6 Sep 2018 5:08

Instrument :
MSVOA_L
ClientSampled :
VP-7DL

Tot Ion	Ratio	Lower	Upper
57	100		
41	103.5	69.0	103.4#
43	76.9	172.1	258.1#
56	59.3	42.2	63.2

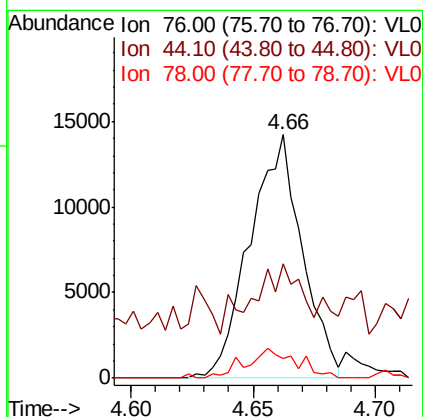
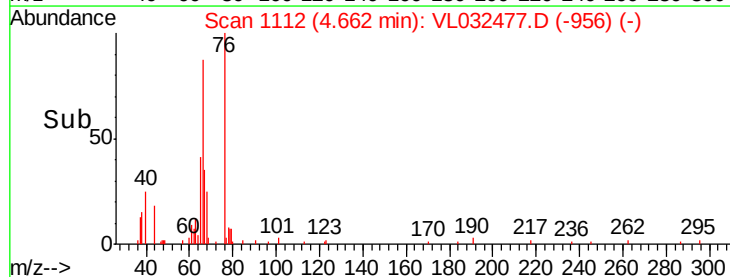
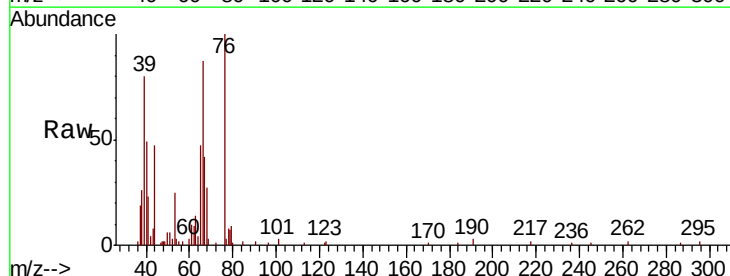
Manual Integrations
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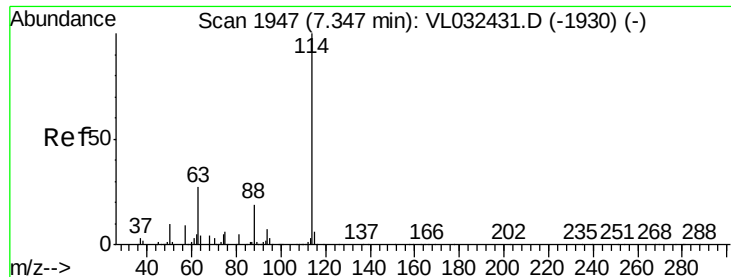
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#27
Carbon Disulfide
Concen: 0.16 ppbv
RT: 4.66 min Scan# 1112
Delta R.T. 0.00 min
Lab File: VL032477.D
Acq: 6 Sep 2018 5:08

Tgt Ion	Ratio	Lower	Upper
76	100		
44	25.6	14.0	21.0#
78	12.0	7.5	11.3#





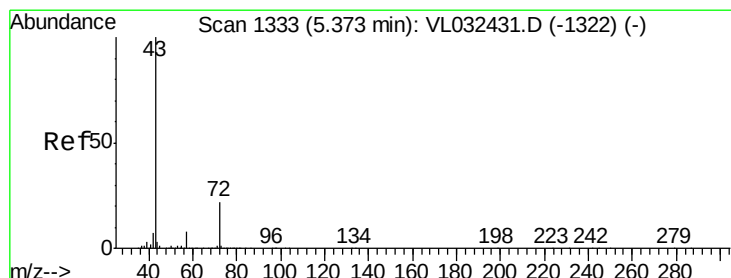
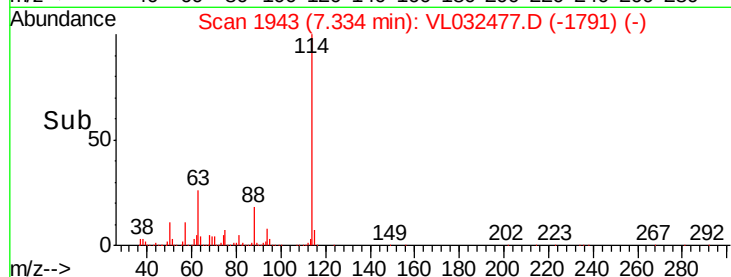
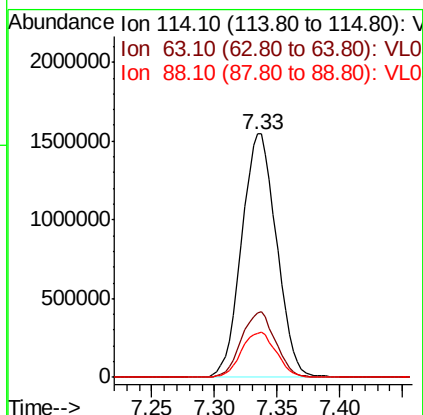
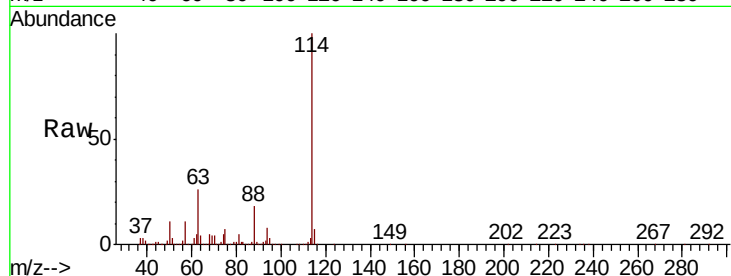
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.33 min Scan# 1943
 Delta R.T. -0.01 min
 Lab File: VL032477.D
 Acq: 6 Sep 2018 5:08

Instrument :
 MSVOA_L
 ClientSampleId :
 VP-7DL

Tot Ion	Ratio	Lower	Upper
114	100		
63	26.5	22.2	33.4
88	18.6	15.0	22.4

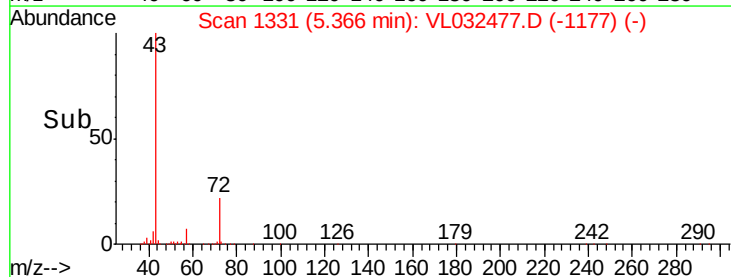
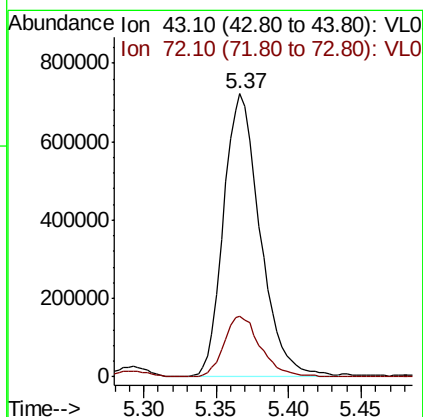
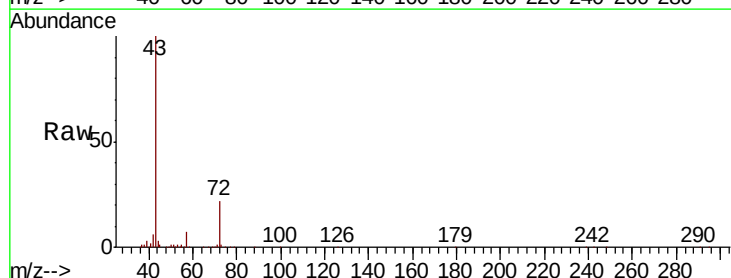
Manual Integrations
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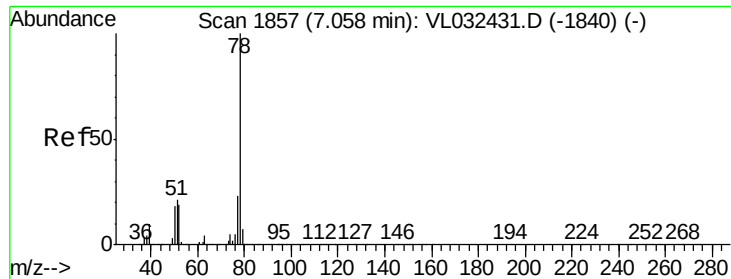
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#34
 2-Butanone
 Concen: 6.34 ppbv
 RT: 5.37 min Scan# 1331
 Delta R.T. -0.01 min
 Lab File: VL032477.D
 Acq: 6 Sep 2018 5:08

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.5	17.8	26.6





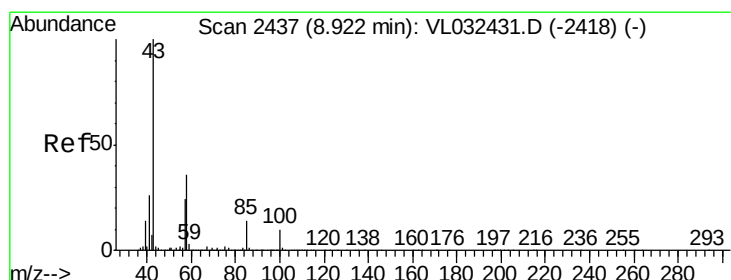
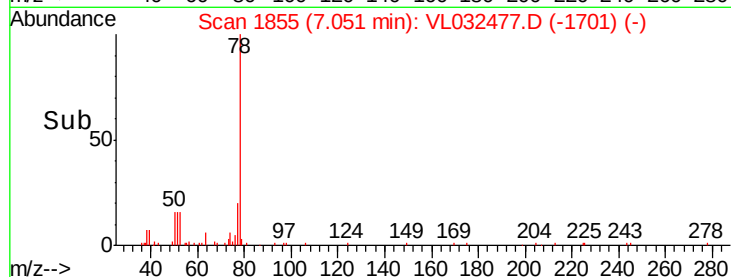
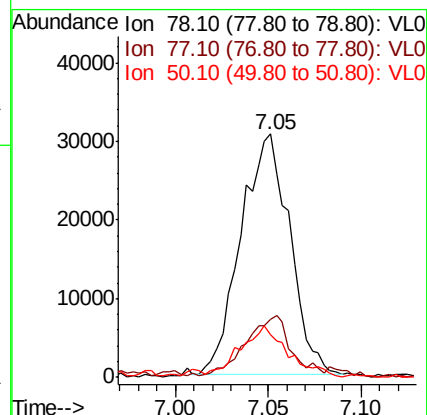
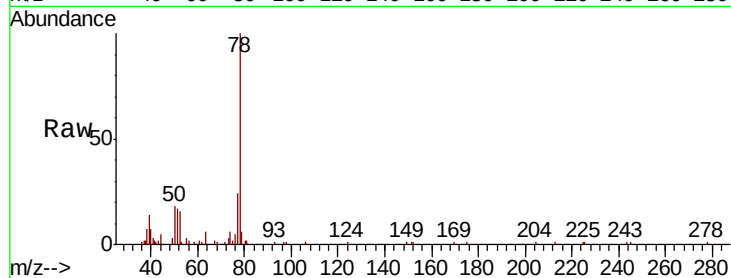
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Benzene
Concen: 0.22 ppbv
RT: 7.05 min Scan# 1855
Delta R.T. -0.01 min
Lab File: VL032477.D
Acq: 6 Sep 2018 5:08

Instrument :
MSVOA_L
ClientSampleId :
VP-7DL

Tot Ion	Ratio	Lower	Upper
78	100		
77	22.4	18.4	27.6
50	17.8	14.4	21.6

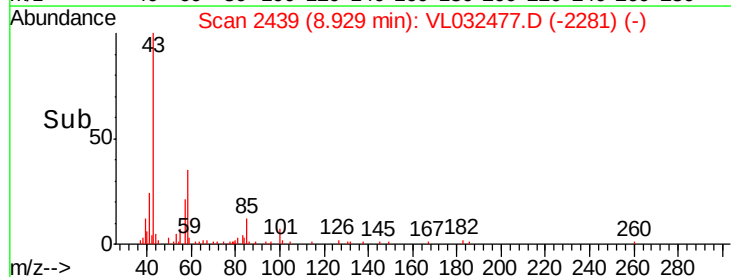
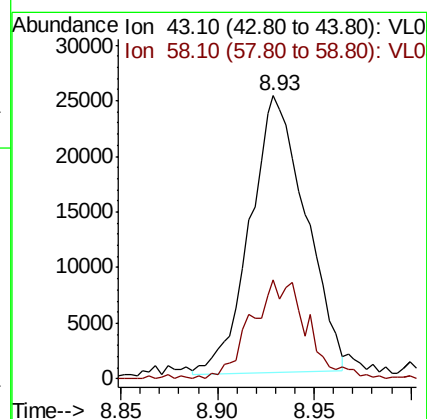
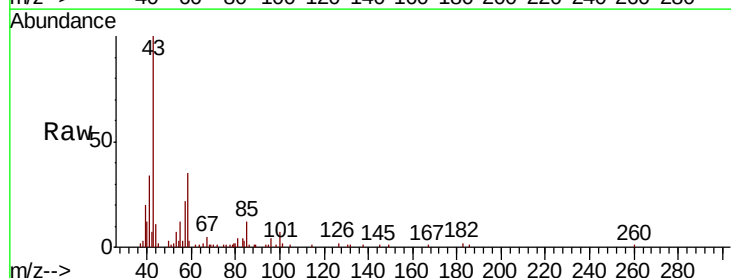
Manual Integrations
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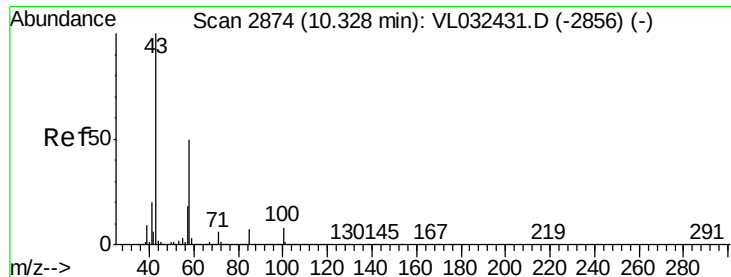
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#50
4-Methyl-2-Pentanone
Concen: 0.17 ppbv
RT: 8.93 min Scan# 2439
Delta R.T. 0.01 min
Lab File: VL032477.D
Acq: 6 Sep 2018 5:08

Tgt Ion	Ratio	Lower	Upper
43	100		
58	37.0	29.0	43.4





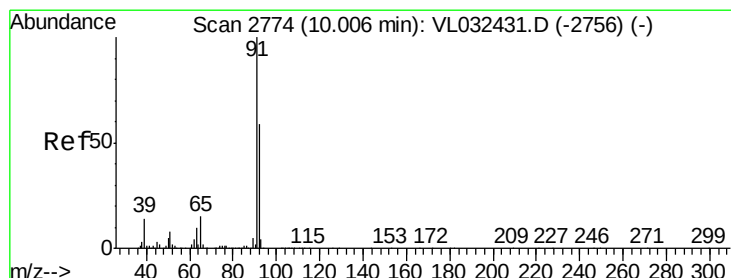
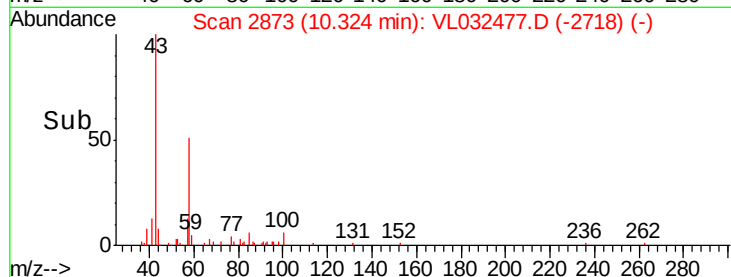
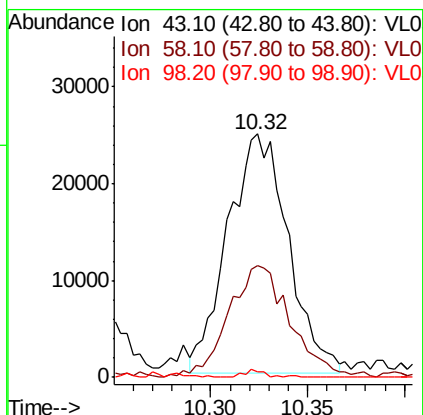
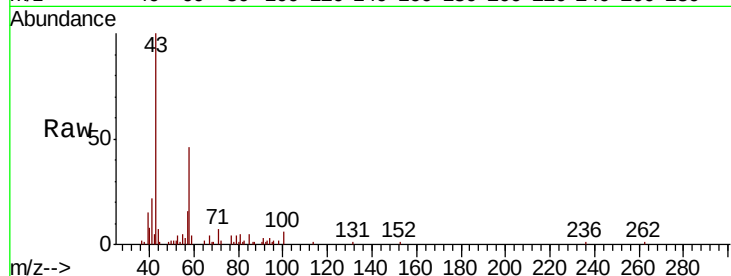
#51
2-Hexanone
Concen: 0.28 ppbv m
RT: 10.32 min Scan# 2873
Delta R.T. -0.00 min
Lab File: VL032477.D
Acq: 6 Sep 2018 5:08

Instrument :
MSVOA_L
ClientSampleId :
VP-7DL

Tot Ion	Ratio	Lower	Upper
43	100		
58	0.0	39.2	58.8#
98	0.9	0.4	0.6#

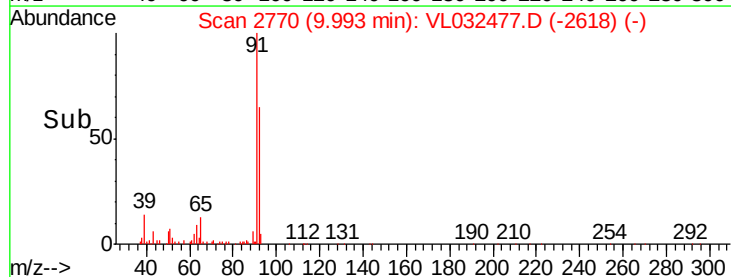
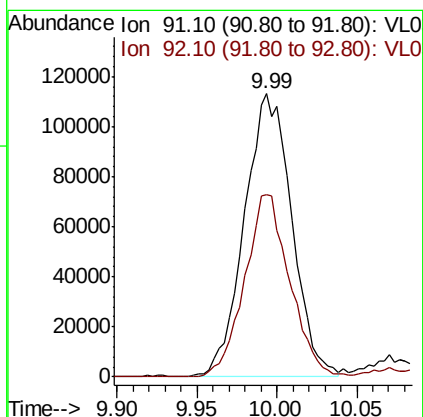
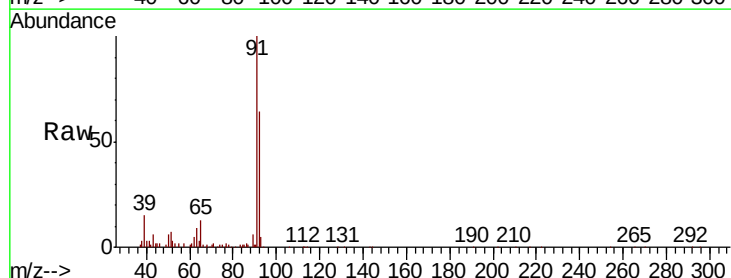
Manual Integrations
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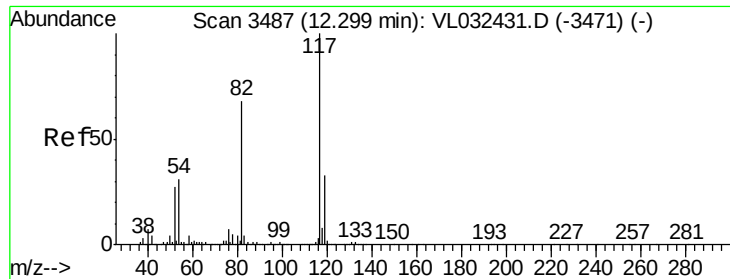
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#53
Toluene
Concen: 0.87 ppbv
RT: 9.99 min Scan# 2770
Delta R.T. -0.01 min
Lab File: VL032477.D
Acq: 6 Sep 2018 5:08

Tgt Ion	Ratio	Lower	Upper
91	100		
92	61.6	48.1	72.1





#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.29 min Scan# 3484

Delta R.T. -0.01 min

Lab File: VL032477.D

Acq: 6 Sep 2018 5:08

Instrument :

MSVOA_L

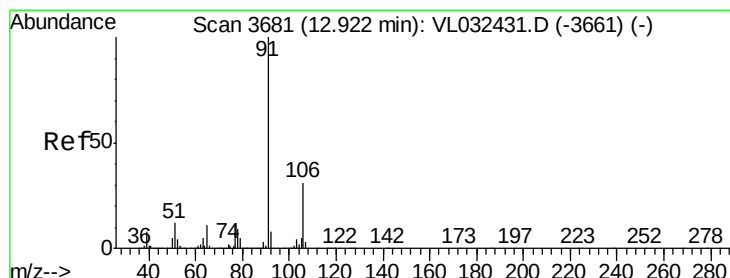
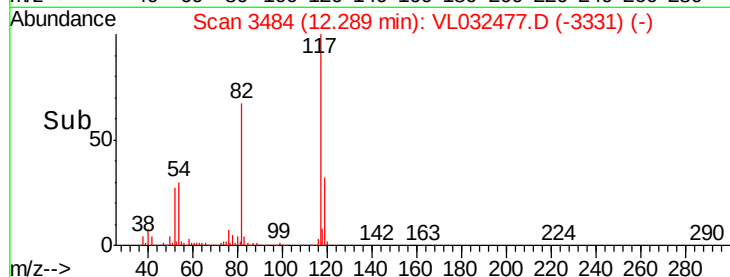
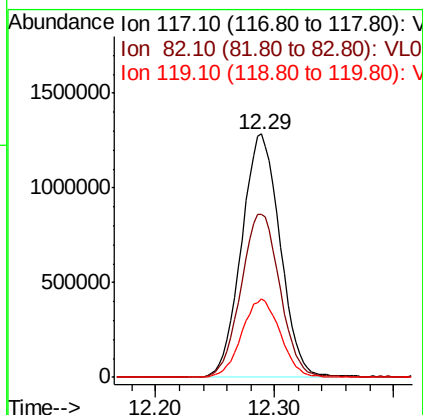
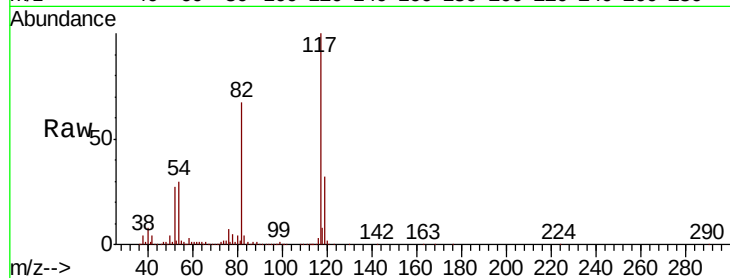
ClientSampleId :

VP-7DL

Tot Ion	Ratio	Lower	Upper
117	100		
82	68.0	53.0	79.6
119	32.4	45.9	68.9#

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#58

Ethyl Benzene

Concen: 0.25 ppbv m

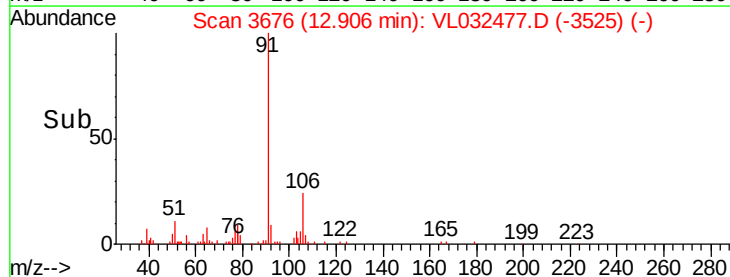
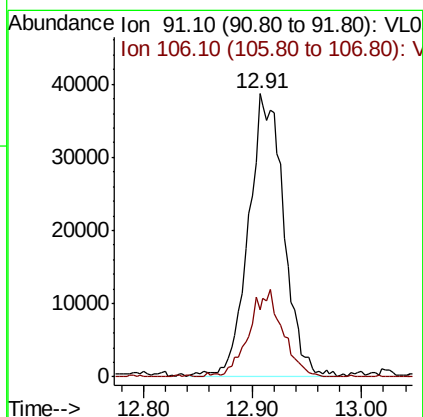
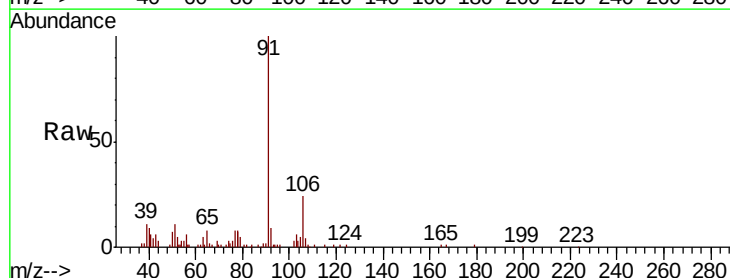
RT: 12.91 min Scan# 3676

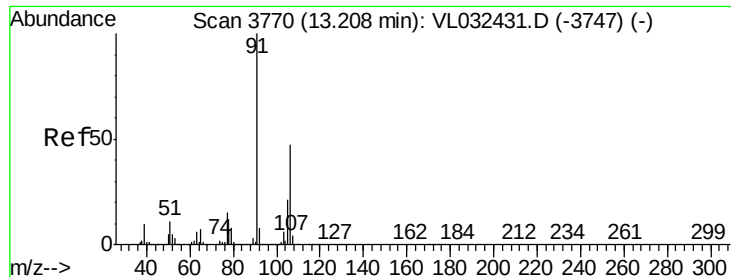
Delta R.T. -0.02 min

Lab File: VL032477.D

Acq: 6 Sep 2018 5:08

Tgt Ion	Ratio	Lower	Upper
91	100		
106	23.6	24.8	37.2#





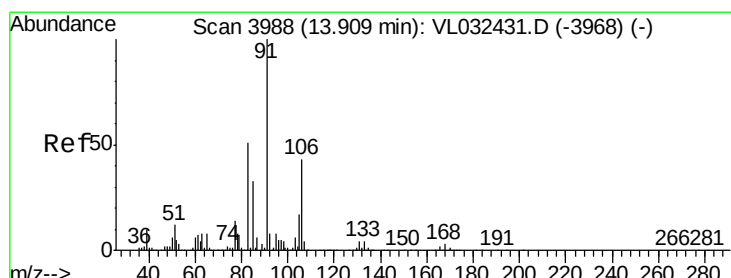
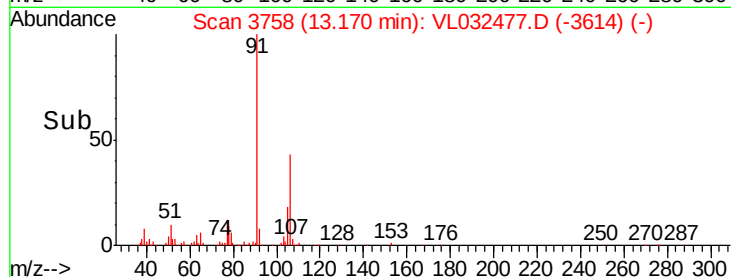
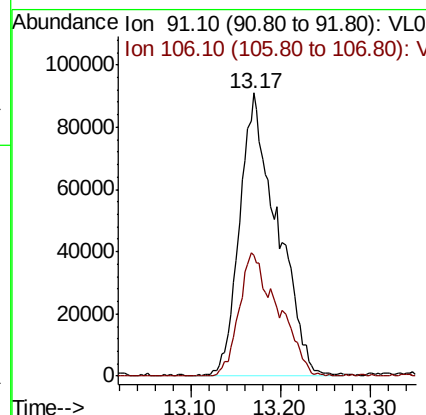
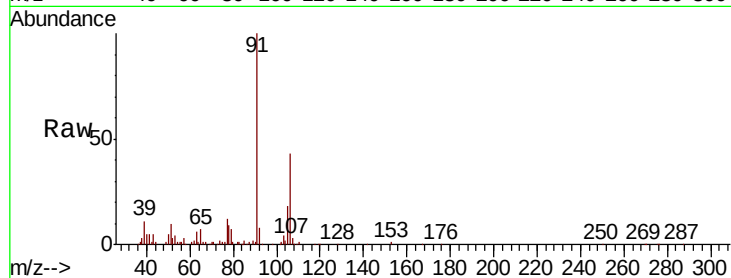
#59
m/p-Xylene
Concen: 0.87 ppbv m
RT: 13.17 min Scan# 3758
Delta R.T. -0.04 min
Lab File: VL032477.D
Acq: 6 Sep 2018 5:08

Instrument :
MSVOA_L
ClientSampled :
VP-7DL

Tot Ion	Ratio	Lower	Upper
91	100		
106	0.0	36.6	55.0#

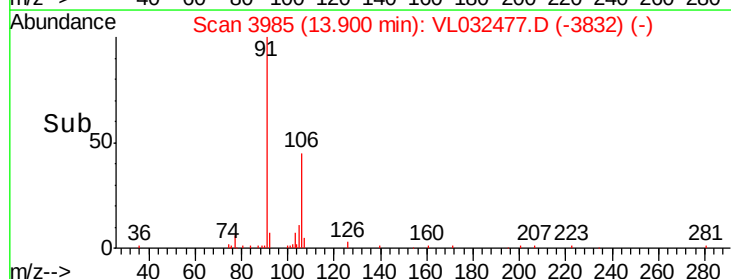
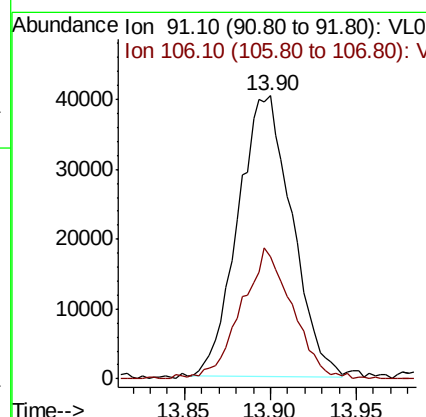
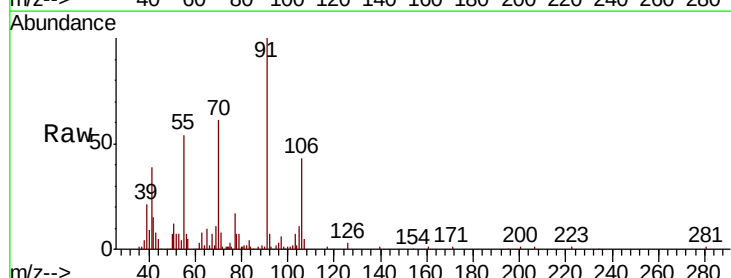
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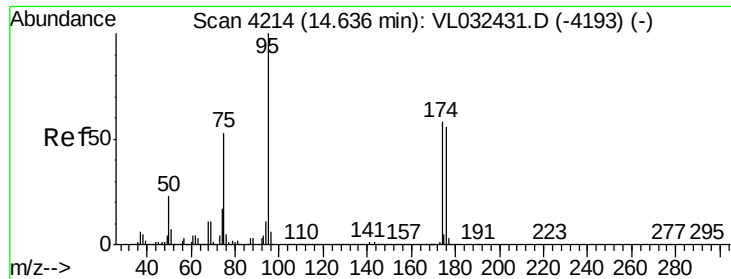
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#60
o-Xylene
Concen: 0.29 ppbv
RT: 13.90 min Scan# 3985
Delta R.T. -0.01 min
Lab File: VL032477.D
Acq: 6 Sep 2018 5:08

Tgt Ion	Ratio	Lower	Upper
91	100		
106	44.2	21.9	65.7





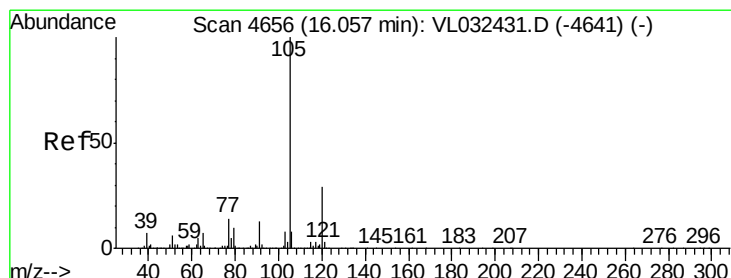
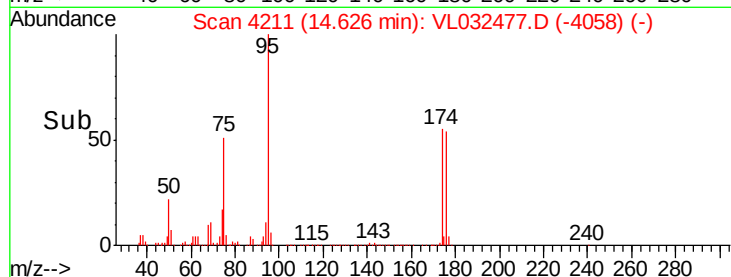
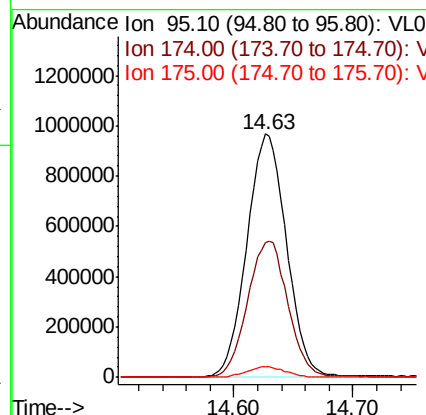
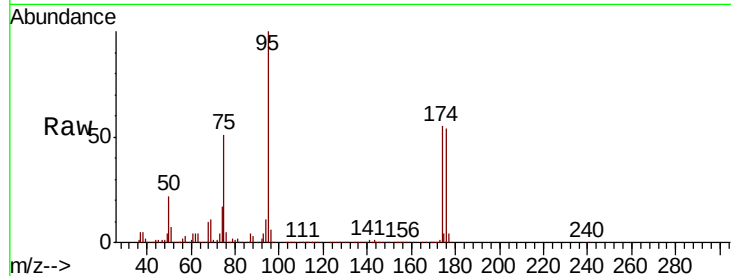
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.46 ppbv
 RT: 14.63 min Scan# 4211
 Delta R.T. -0.01 min
 Lab File: VL032477.D
 Acq: 6 Sep 2018 5:08

Instrument :
 MSVOA_L
 ClientSampled :
 VP-7DL

Tot Ion: 95 Resp: 2232056
 Ion Ratio Lower Upper
 95 100
 174 57.5 46.3 69.5
 175 4.4 3.4 5.0

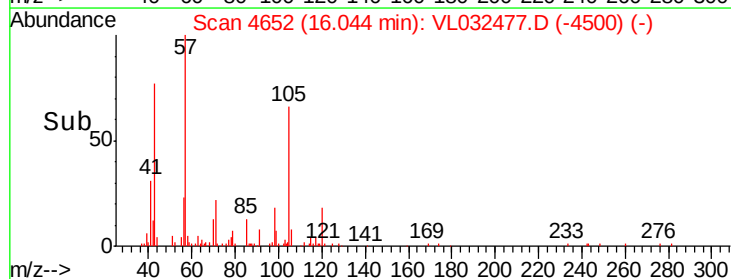
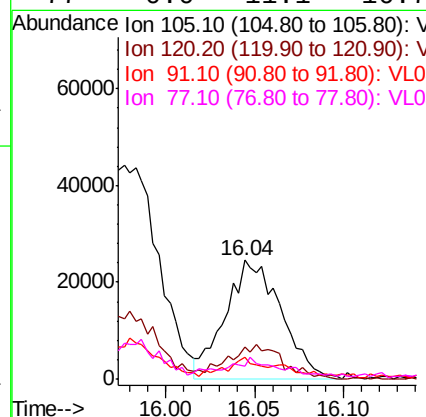
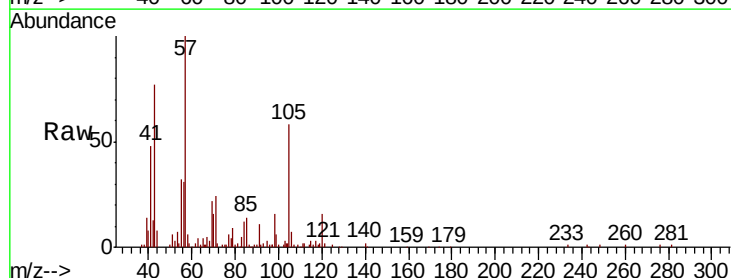
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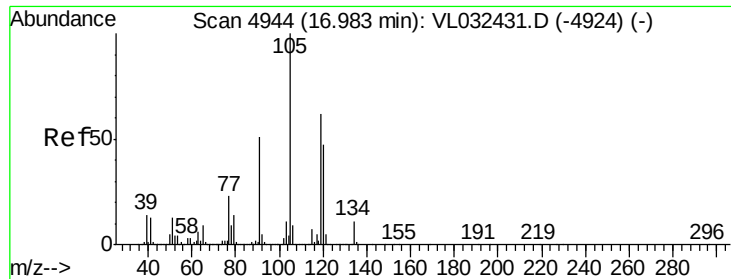
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#72
 4-Ethyltoluene
 Concen: 0.16 ppbv m
 RT: 16.04 min Scan# 4652
 Delta R.T. -0.01 min
 Lab File: VL032477.D
 Acq: 6 Sep 2018 5:08

Tgt Ion: 105 Resp: 53435
 Ion Ratio Lower Upper
 105 100
 120 0.0 23.5 35.3#
 91 14.0 10.2 15.2
 77 0.0 11.1 16.7#





#74
 1,2,4-Trimethylbenzene
 Concen: 0.32 ppbv
 RT: 16.98 min Scan# 4942
 Delta R.T. -0.01 min
 Lab File: VL032477.D
 Acq: 6 Sep 2018 5:08

Instrument :
 MSVOA_L
 ClientSampleId :
 VP-7DL

Tot Ion	Ratio	Resp Lower	Upper
105	100		
120	38.6	37.8	56.8
91	8.5	41.4	62.0#
77	17.5	18.6	28.0#

Manual Integrations
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