

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051921\
 Data File : VL036998.D
 Acq On : 19 May 2021 19:05
 Operator : SY/AP
 Sample : M2424-05DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 KSV-04DL

Manual Integrations
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 5/24/2021 3:01:47 PM

Quant Time: May 22 22:28:39 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 2021
 QLast Update : Tue May 18 12:00:15 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1222988	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.15	114	3738961	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.06	117	3495136	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	2644840	10.07	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.70%

Target Compounds						Ovalue
9) Propene	2.99	41	141428	1.763	ppbv	97
10) Heptane	8.10	43	47451	0.237	ppbv	85
13) Ethanol	3.59	45	114682m	10.713	ppbv	
15) Acetone	3.83	43	9697522	77.415	ppbv	99
17) tert-Butyl alcohol	4.29	59	121173m	1.056	ppbv	
19) Isopropyl Alcohol	3.96	45	96232	1.429	ppbv #	30
20) Methylene Chloride	4.33	84	43882m	0.654	ppbv	
26) Hexane	5.67	57	125776	0.818	ppbv #	1
34) 2-Butanone	5.23	43	583908	4.289	ppbv	94
36) Benzene	6.87	78	95016	0.295	ppbv #	92
43) Methyl Methacrylate	8.03	69	22791	0.205	ppbv #	39
53) Toluene	9.78	91	146534	0.382	ppbv	95
59) m/p-Xylene	12.94	91	48642m	0.119	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.66	83	45834m	0.158	ppbv	
74) 1,2,4-Trimethylbenzene	16.74	105	65282	0.146	ppbv #	73

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

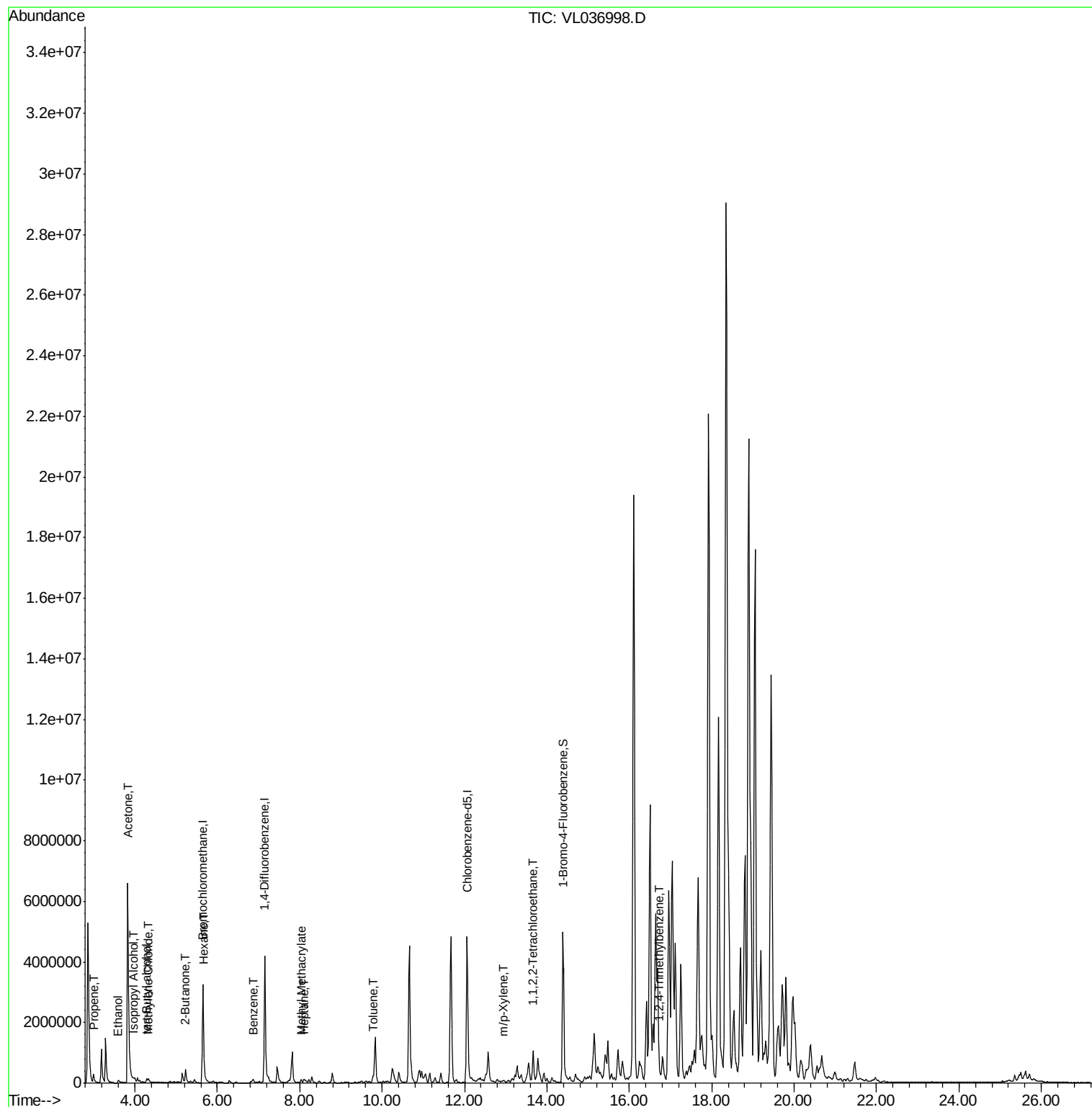
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL051921\
Data File : VL036998.D
Acq On : 19 May 2021 19:05
Operator : SY/AP
Sample : M2424-05DL 10X
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

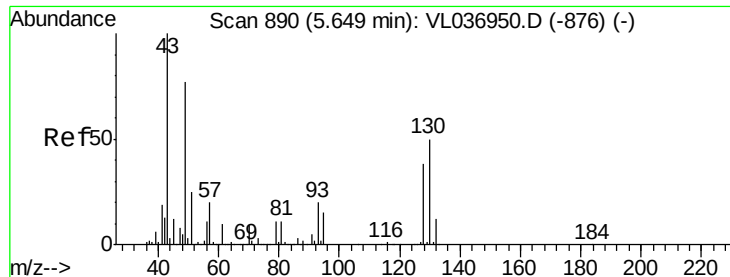
Instrument :
MSVOA_L
ClientSampleId :
KSV-04DL

Manual Integrations
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Quant Time: May 22 22:28:39 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May
QLast Update : Tue May 18 12:00:15 2021
Response via : Initial Calibration





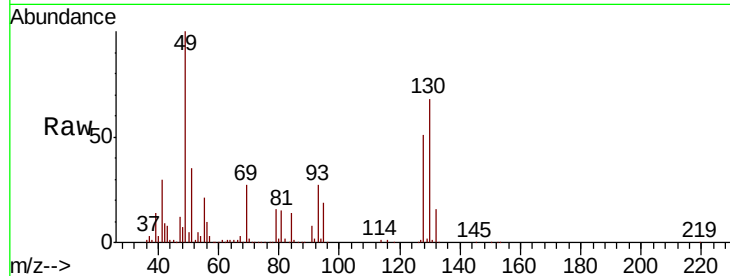
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.65 min Scan# 889
Delta R.T. -0.00 min
Lab File: VL036998.D
Acq: 19 May 2021 19:05

Instrument :
MSVOA_L
ClientSampleId :
KSV-04DL

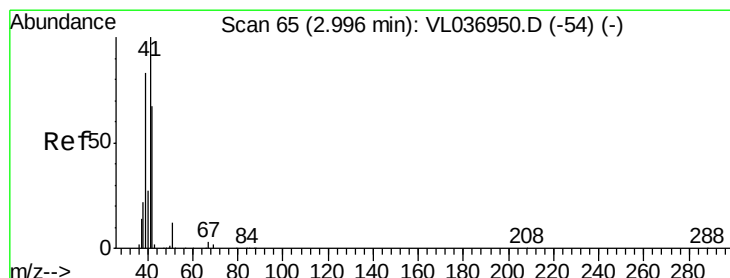
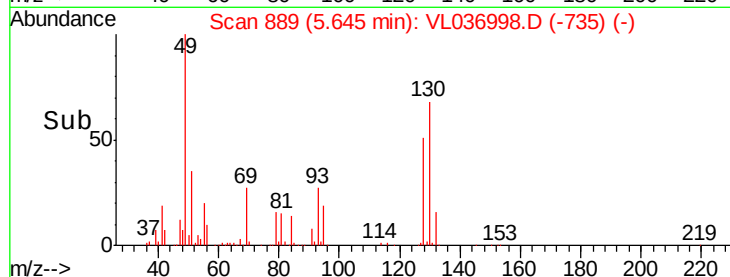
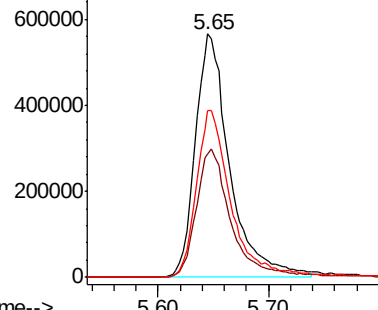
Tot Ion: 49 Resp: 1222988
Ion Ratio Lower Upper
49 100
128 54.3 26.9 80.7
130 70.5 33.8 101.4

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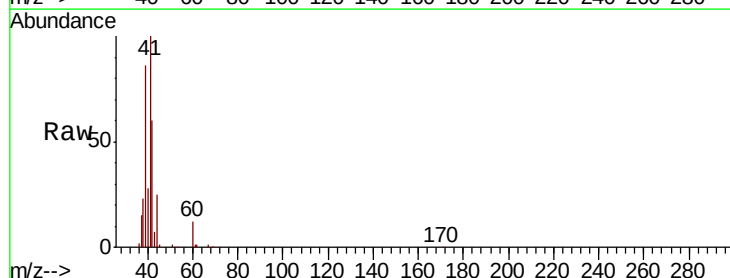


Abundance Ion 49.10 (48.80 to 49.80): VL0
Ion 128.00 (127.70 to 128.70): V
Ion 130.00 (129.70 to 130.70): V

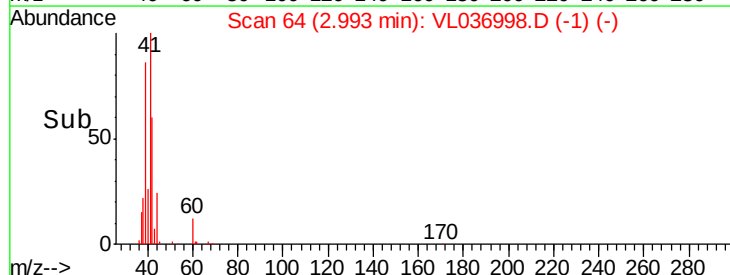
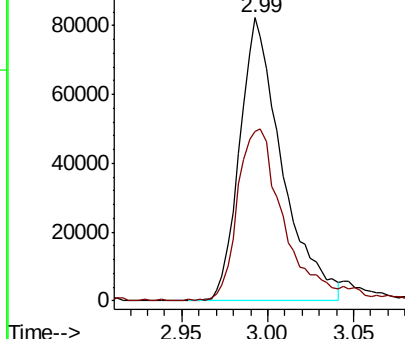


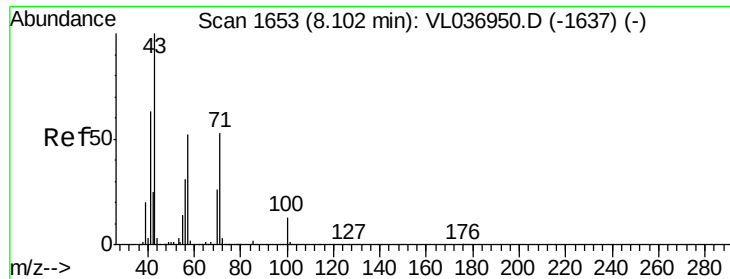
#9
Propene
Concen: 1.763 ppbv
RT: 2.99 min Scan# 64
Delta R.T. -0.00 min
Lab File: VL036998.D
Acq: 19 May 2021 19:05

Tgt Ion: 41 Resp: 141428
Ion Ratio Lower Upper
41 100
42 69.6 53.9 80.9



Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 42.10 (41.80 to 42.80): VL0





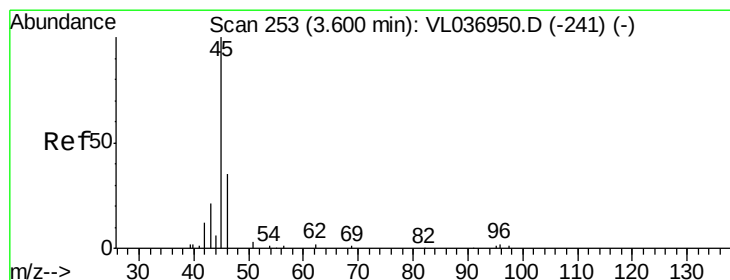
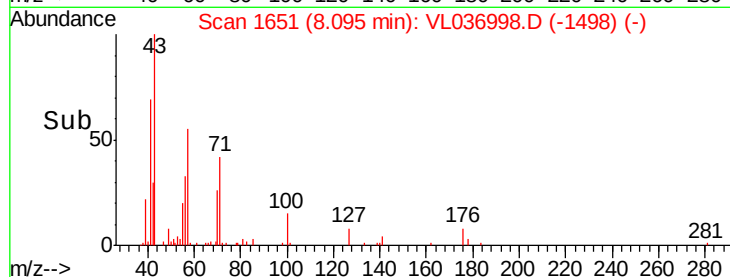
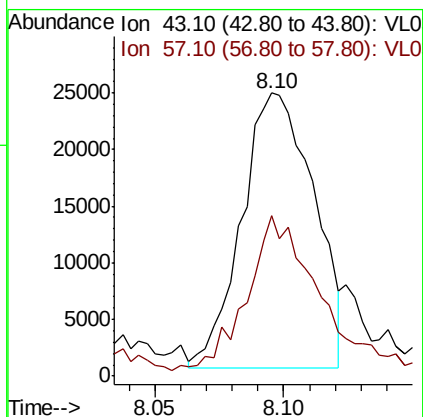
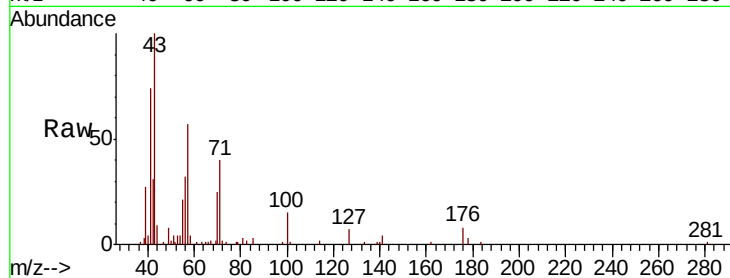
#10
Heptane
Concen: 0.237 ppbv
RT: 8.10 min Scan# 1651
Delta R.T. -0.01 min
Lab File: VL036998.D
Acq: 19 May 2021 19:05

Instrument :
MSVOA_L
ClientSampleID :
KSV-04DL

Tot Ion: 43 Resp: 47451
Ion Ratio Lower Upper
43 100
57 61.5 41.0 61.6

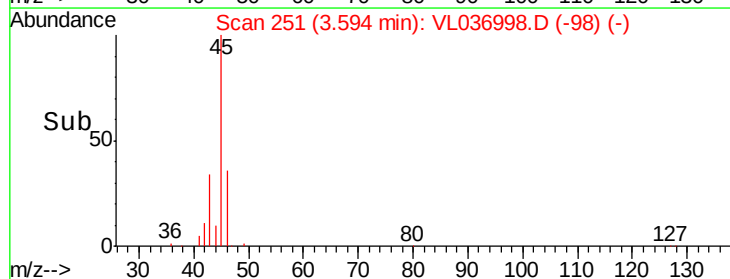
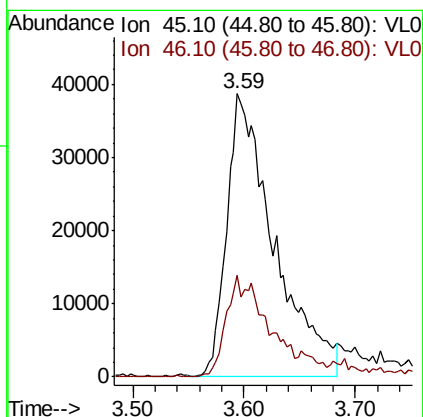
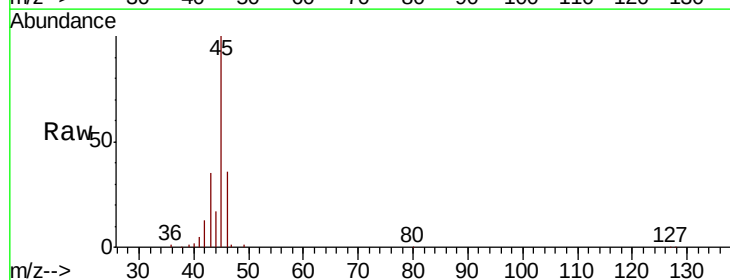
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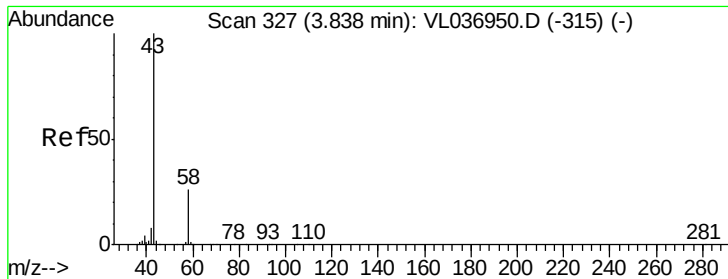
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#13
Ethanol
Concen: 10.713 ppbv m
RT: 3.59 min Scan# 251
Delta R.T. -0.01 min
Lab File: VL036998.D
Acq: 19 May 2021 19:05

Tgt Ion: 45 Resp: 114682
Ion Ratio Lower Upper
45 100
46 38.4 16.3 65.3





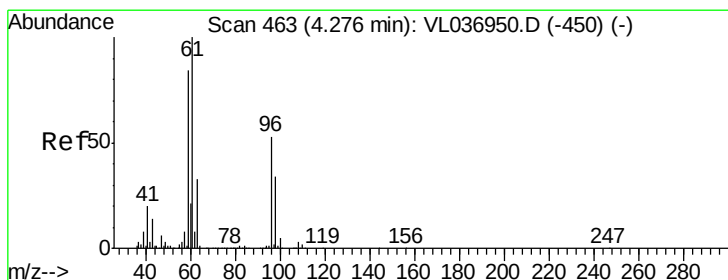
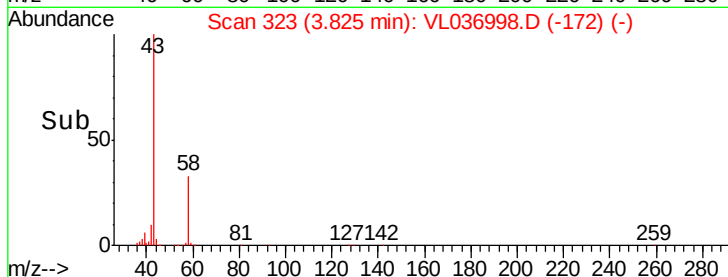
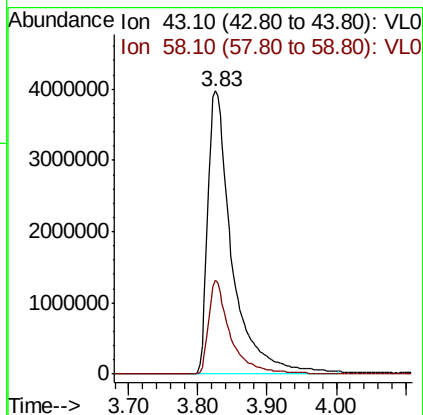
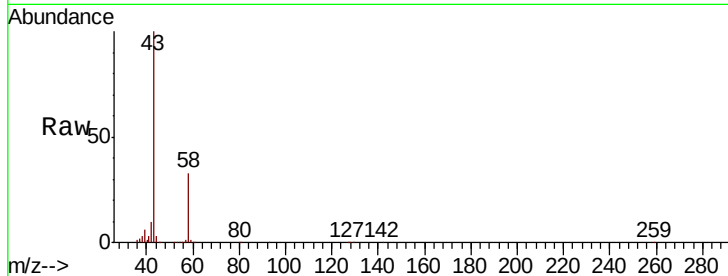
#15
Acetone
Concen: 77.415 ppbv
RT: 3.83 min Scan# 323
Delta R.T. -0.01 min
Lab File: VL036998.D
Acq: 19 May 2021 19:05

Instrument :
MSVOA_L
ClientSampleId :
KSV-04DL

Tot Ion: 43 Resp: 9697522
Ion Ratio Lower Upper
43 100
58 30.6 24.0 36.0

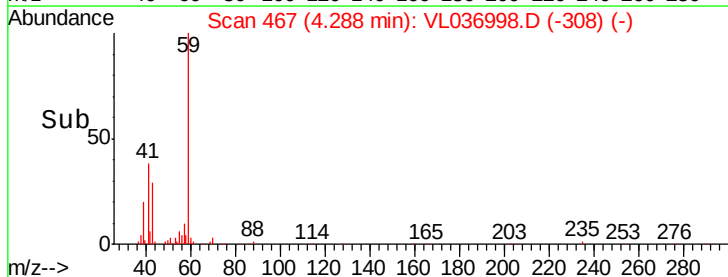
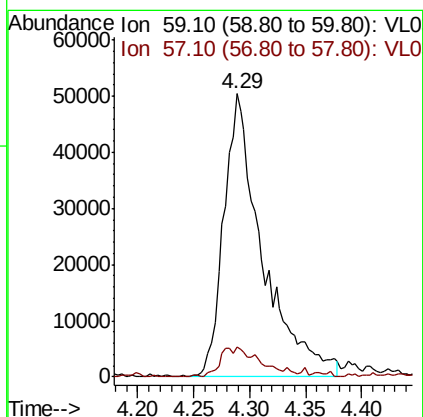
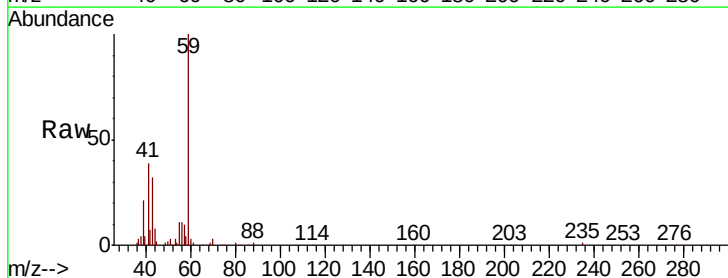
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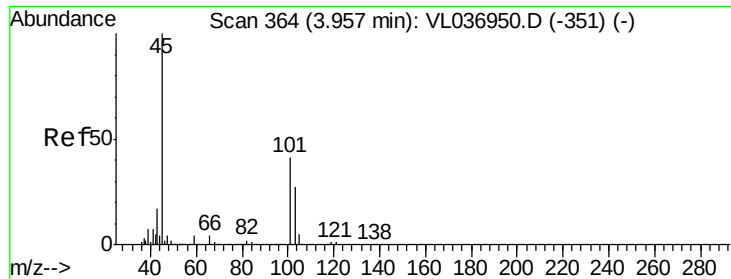
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#17
tert-Butyl alcohol
Concen: 1.056 ppbv m
RT: 4.29 min Scan# 467
Delta R.T. 0.01 min
Lab File: VL036998.D
Acq: 19 May 2021 19:05

Tgt Ion: 59 Resp: 121173
Ion Ratio Lower Upper
59 100
57 11.4 8.3 12.5





#19

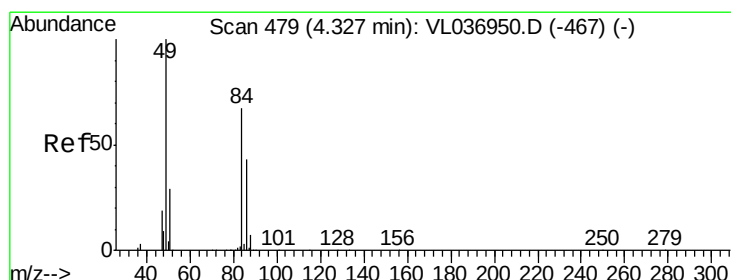
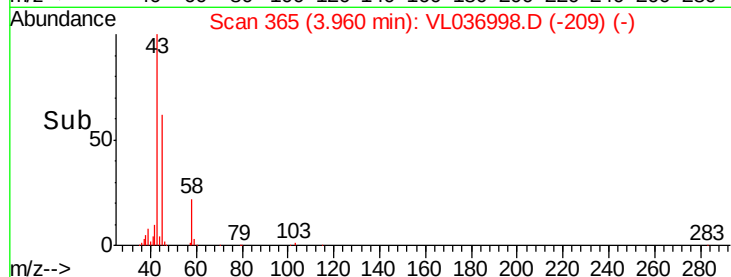
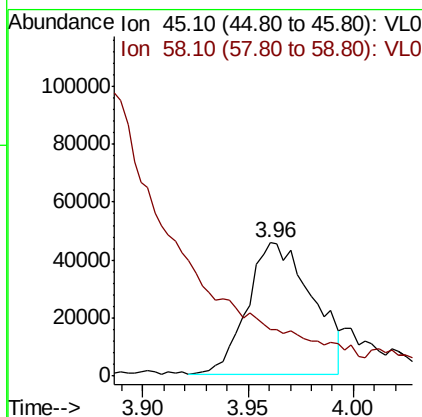
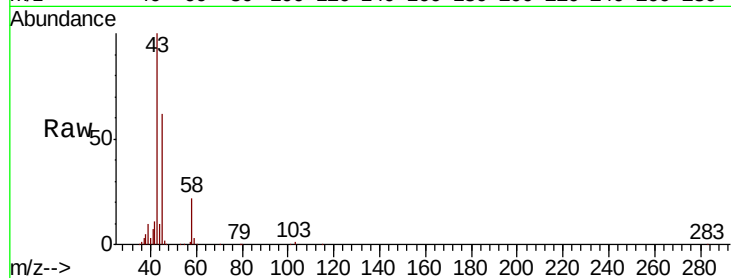
Isopropyl Alcohol
 Concen: 1.429 ppbv
 RT: 3.96 min Scan# 365
 Delta R.T. 0.00 min
 Lab File: VL036998.D
 Acq: 19 May 2021 19:05

Instrument :
 MSVOA_L
 ClientSampled :
 KSV-04DL

Tot Ion	Ratio	Lower	Upper
45	100		
58	0.0	37.2	55.8#

Manual Integrations
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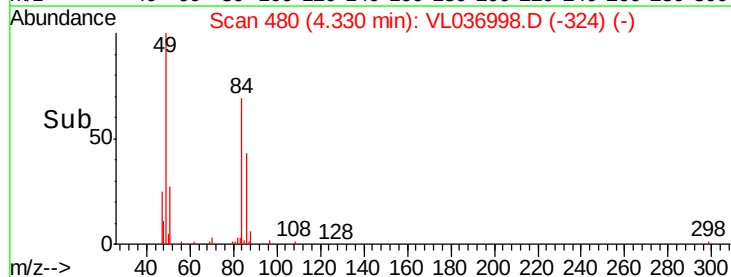
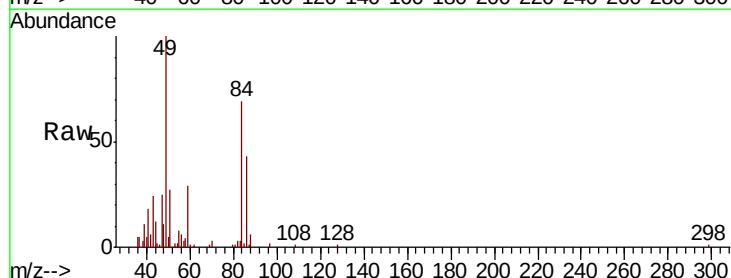
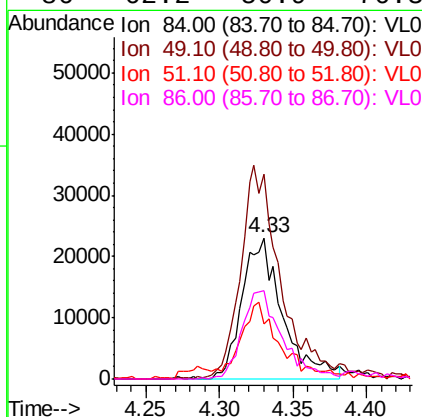
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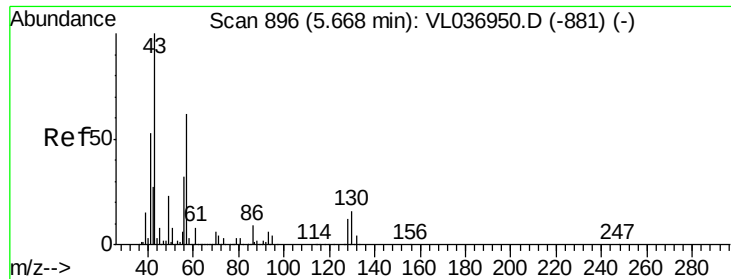


#20

Methylene Chloride
 Concen: 0.654 ppbv m
 RT: 4.33 min Scan# 480
 Delta R.T. 0.00 min
 Lab File: VL036998.D
 Acq: 19 May 2021 19:05

Tgt Ion	Ratio	Lower	Upper
84	100		
49	145.3	119.8	179.6
51	38.7	35.1	52.7
86	62.2	50.9	76.3





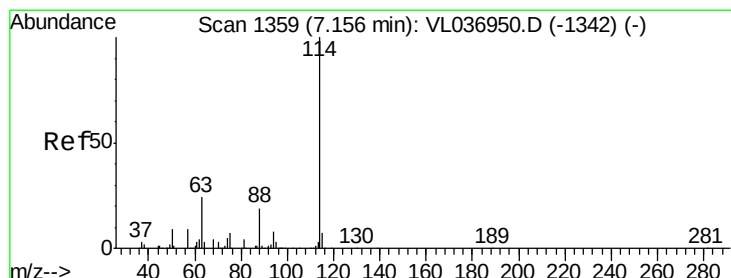
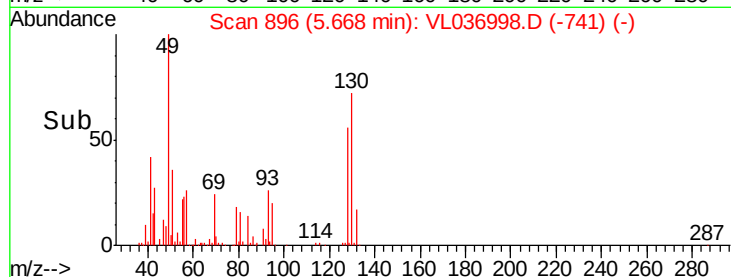
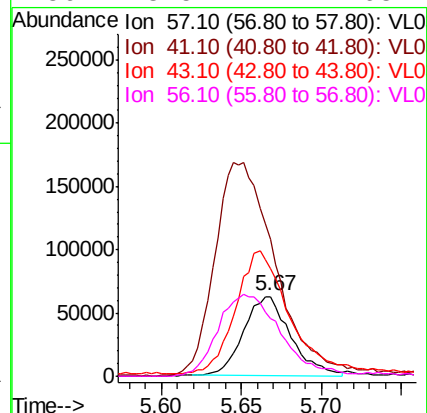
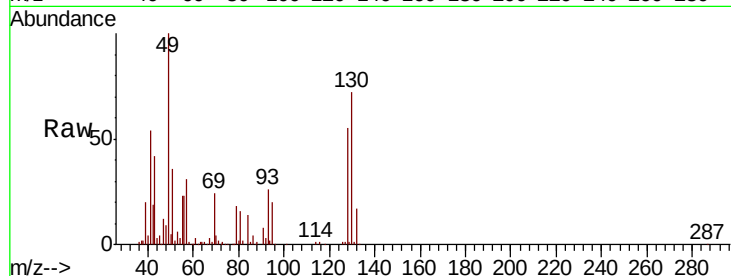
#26
Hexane
Concen: 0.818 ppbv
RT: 5.67 min Scan# 896
Delta R.T. -0.00 min
Lab File: VL036998.D
Acq: 19 May 2021 19:05

Instrument :
MSVOA_L
ClientSampled :
KSV-04DL

Tot Ion	Ratio	Lower	Upper
57	100		
41	359.2	70.5	105.7#
43	189.7	165.8	248.8
56	143.5	42.2	63.4#

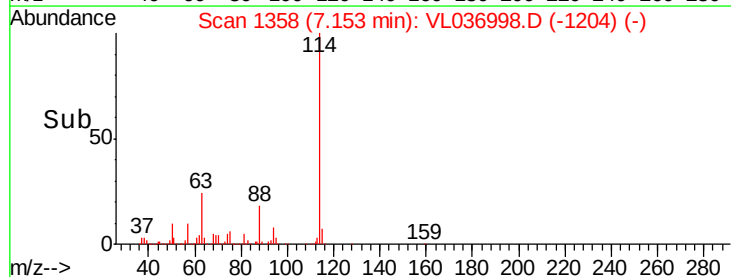
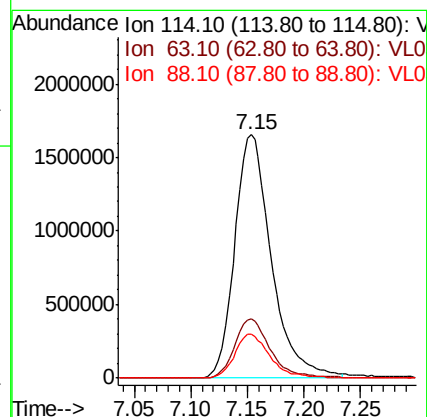
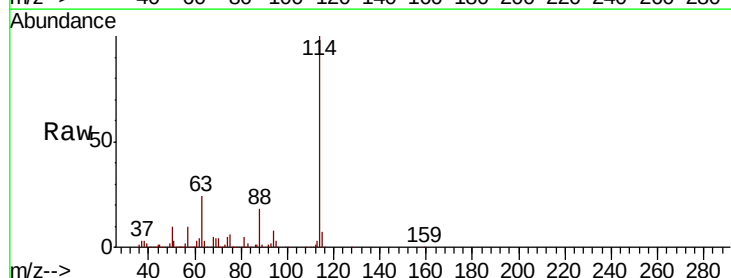
Manual Integrations
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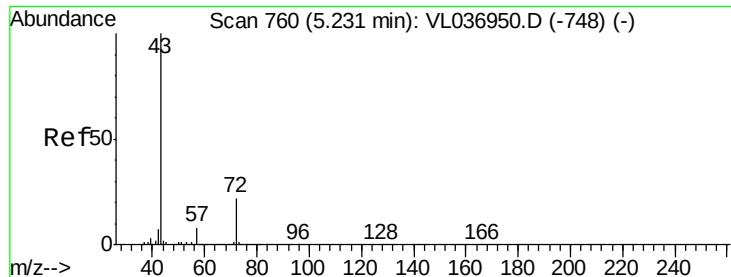
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.15 min Scan# 1358
Delta R.T. -0.00 min
Lab File: VL036998.D
Acq: 19 May 2021 19:05

Tgt Ion	Ratio	Lower	Upper
114	100		
63	24.1	19.6	29.4
88	17.8	14.6	21.8





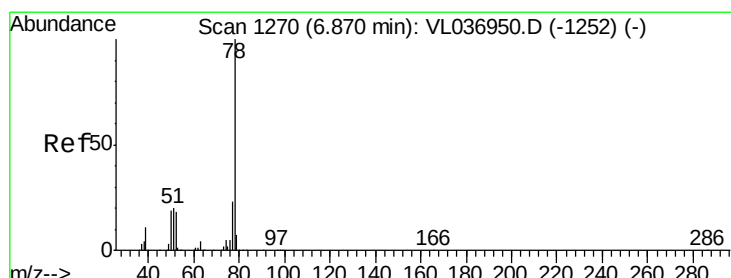
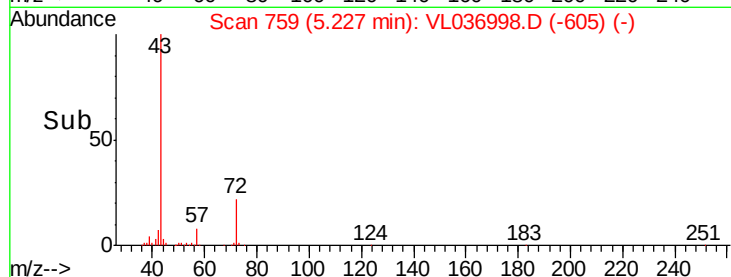
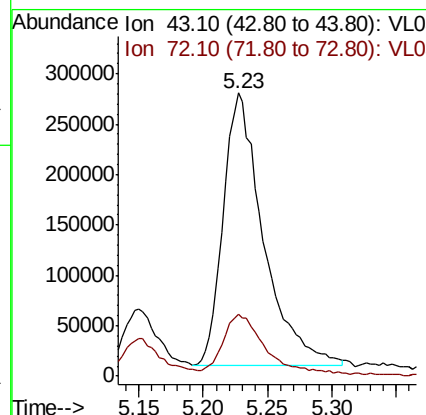
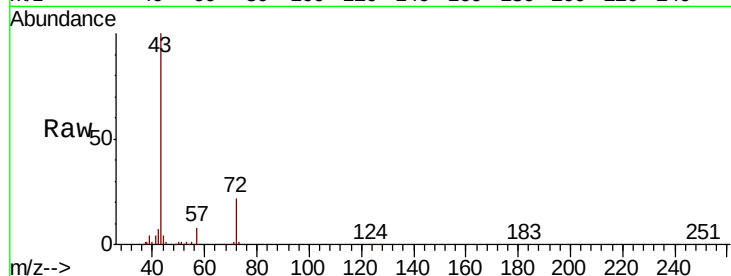
#34
2-Butanone
Concen: 4.289 ppbv
RT: 5.23 min Scan# 759
Delta R.T. -0.00 min
Lab File: VL036998.D
Acq: 19 May 2021 19:05

Instrument :
MSVOA_L
ClientSampleId :
KSV-04DL

Tot Ion	Ratio	Lower	Upper
43	100		
72	26.4	19.0	28.4

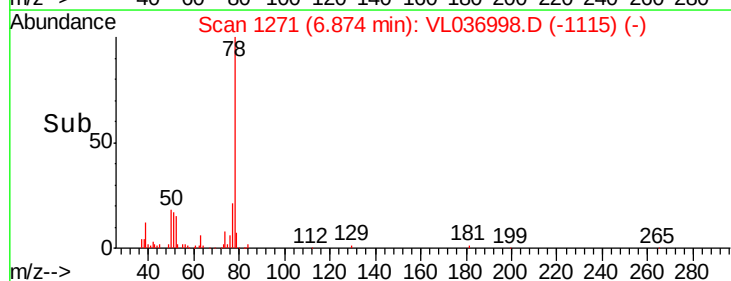
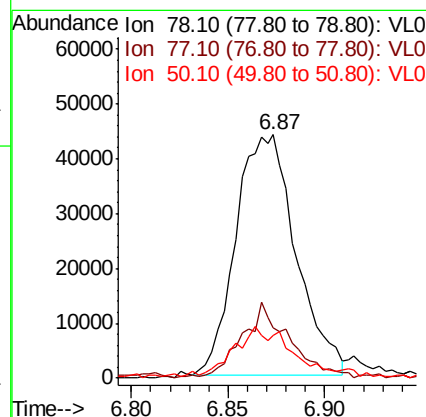
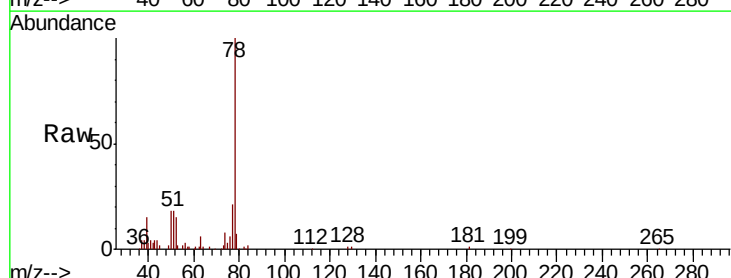
Manual Integrations
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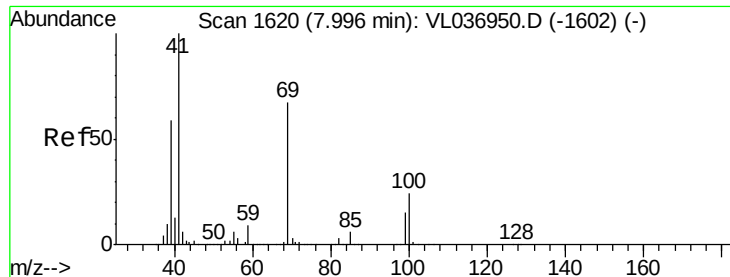
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#36
Benzene
Concen: 0.295 ppbv
RT: 6.87 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VL036998.D
Acq: 19 May 2021 19:05

Tgt Ion	Ratio	Lower	Upper
78	100		
77	19.6	18.6	28.0
50	14.9	15.0	22.4#





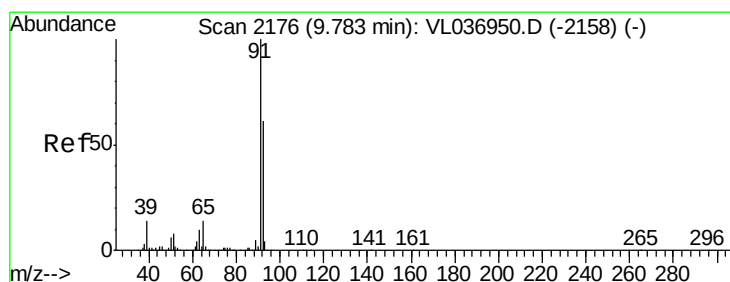
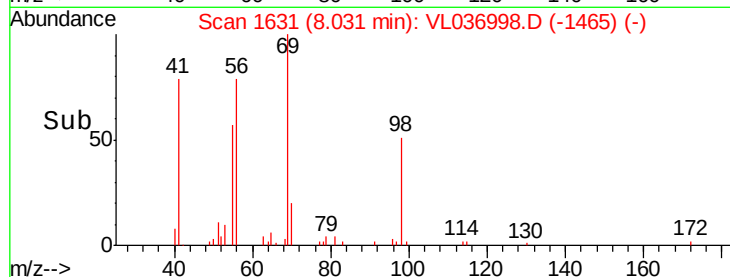
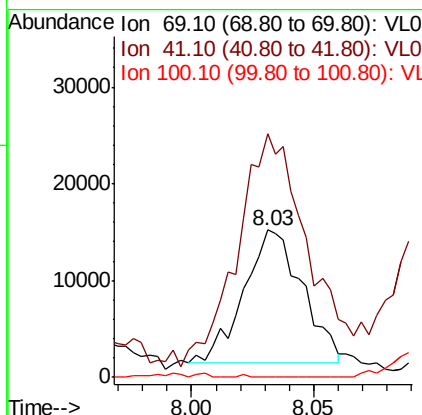
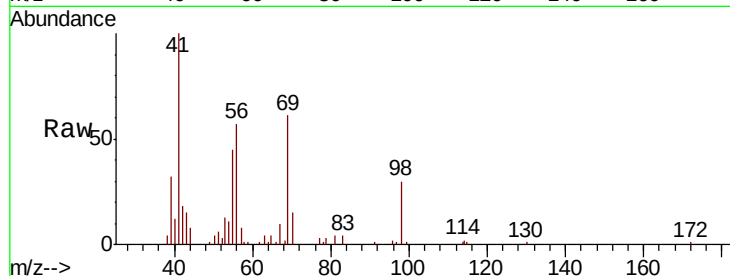
#43
Methvl Methacrylate
Concen: 0.205 ppbv
RT: 8.03 min Scan# 1631
Delta R.T. 0.04 min
Lab File: VL036998.D
Acq: 19 May 2021 19:05

Instrument :
MSVOA_L
ClientSampleId :
KSV-04DL

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	225.7	118.6	178.0#	
100	2.0	28.2	42.4#	

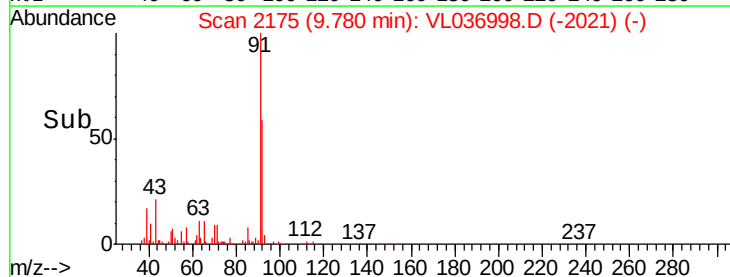
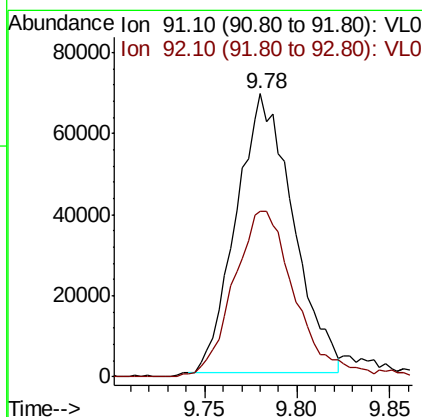
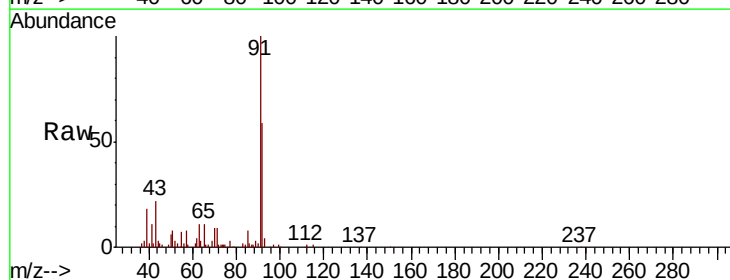
Manual Integrations
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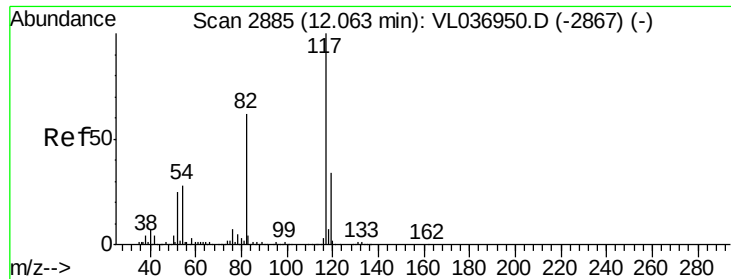
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#53
Toluene
Concen: 0.382 ppbv
RT: 9.78 min Scan# 2175
Delta R.T. -0.00 min
Lab File: VL036998.D
Acq: 19 May 2021 19:05

Tgt Ion	Ion	Ratio	Lower	Upper
91	100			
92	65.6	49.5	74.3	





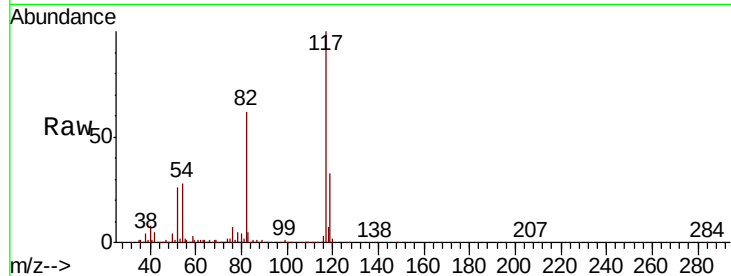
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.06 min Scan# 2884
Delta R.T. -0.00 min
Lab File: VL036998.D
Acq: 19 May 2021 19:05

Instrument :
MSVOA_L
ClientSampleId :
KSV-04DL

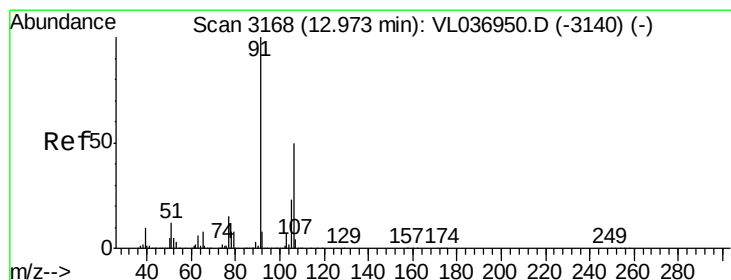
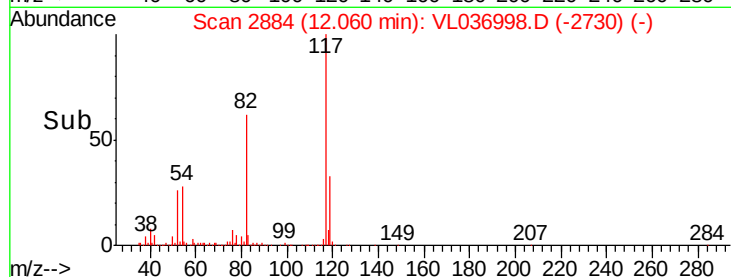
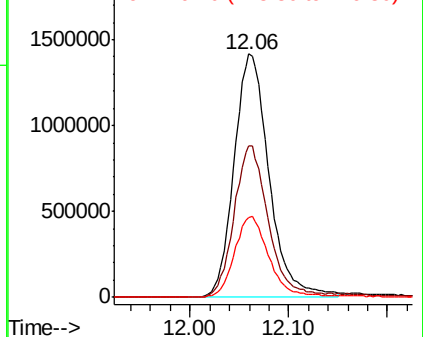
Tot Ion	Ratio	Lower	Upper
117	100		
82	64.0	52.6	79.0
119	33.6	46.6	70.0#

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5/24/2021 3:01:47 PM

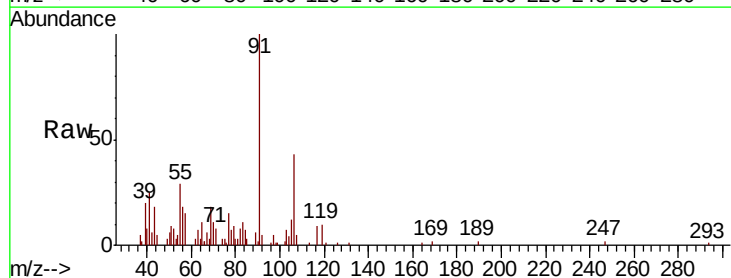


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

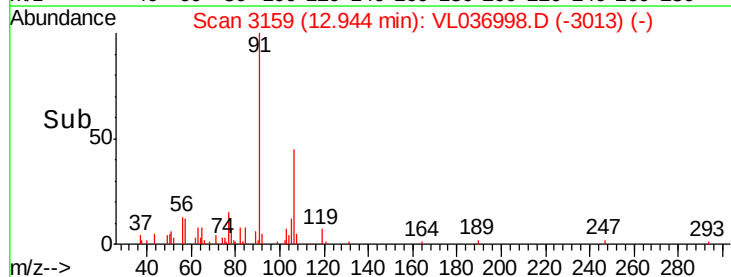
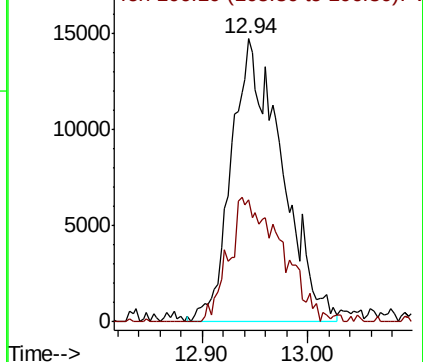


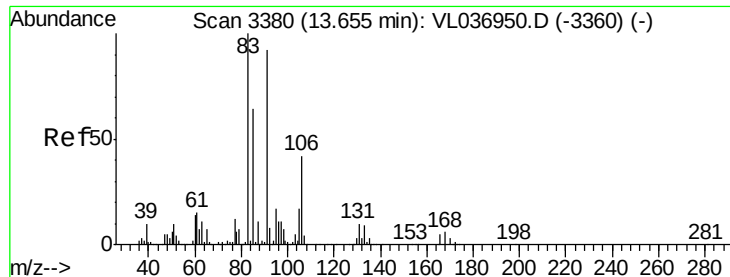
#59
m/p-Xylene
Concen: 0.119 ppbv m
RT: 12.94 min Scan# 3159
Delta R.T. -0.03 min
Lab File: VL036998.D
Acq: 19 May 2021 19:05

Tgt Ion	Ratio	Lower	Upper
91	100		
106	0.0	37.4	56.2#



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





#63

1,1,2,2-Tetrachloroethane

Concen: 0.158 ppbv m

RT: 13.66 min Scan# 3381

Delta R.T. 0.00 min

Lab File: VL036998.D

Acq: 19 May 2021 19:05

Instrument :

MSVOA_L

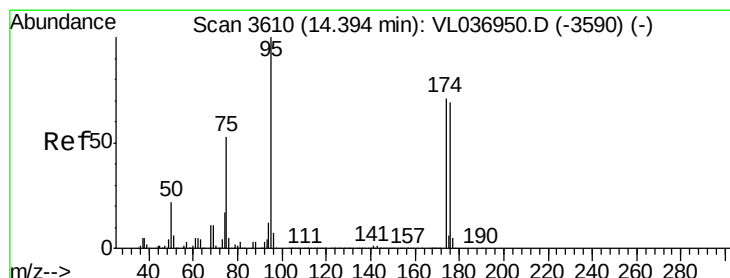
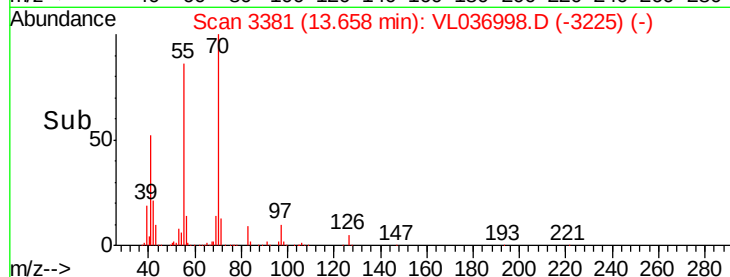
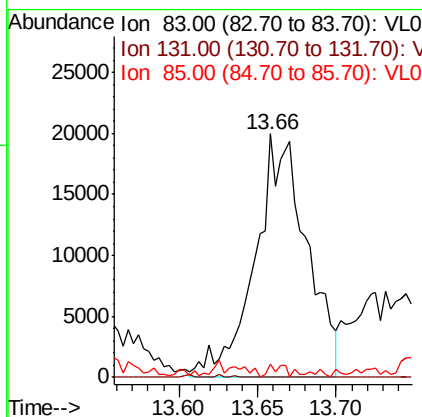
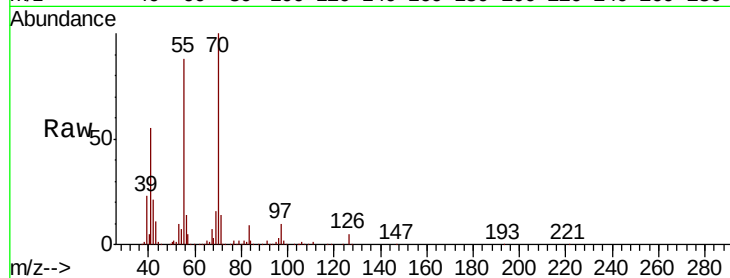
ClientSampled :

KSV-04DL

Tot Ion:	83	Resp:	45834
Ion Ratio	Lower	Upper	
83	100		
131	0.0	5.0	15.0#
85	0.0	32.9	98.6#

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5/24/2021 3:01:47 PM



#68

1-Bromo-4-Fluorobenzene

Concen: 10.073 ppbv

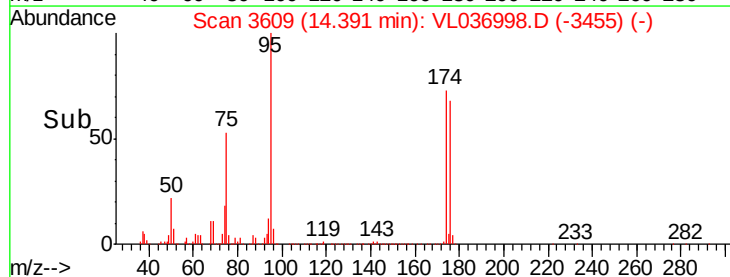
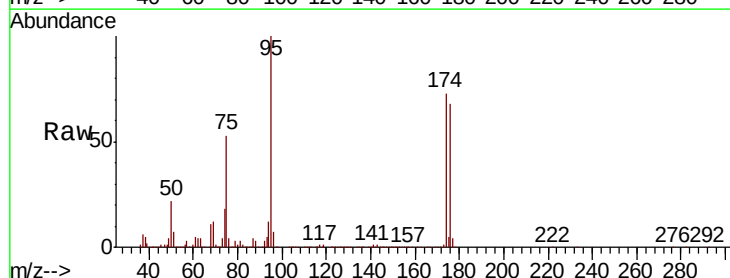
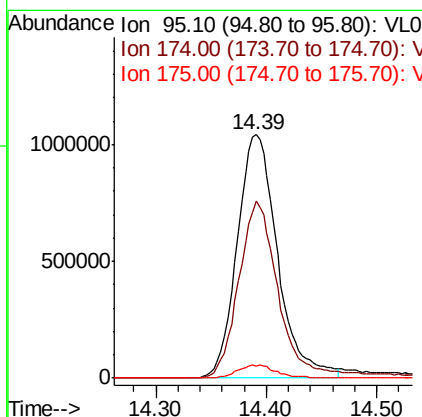
RT: 14.39 min Scan# 3609

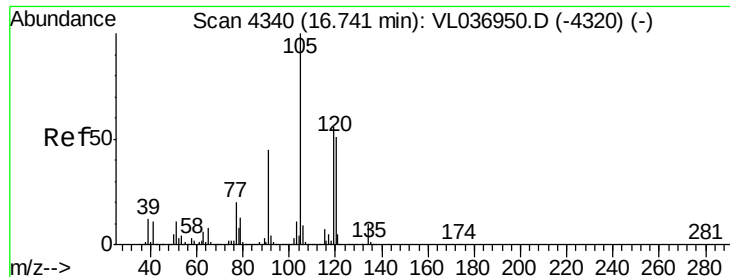
Delta R.T. -0.00 min

Lab File: VL036998.D

Acq: 19 May 2021 19:05

Tgt Ion:	95	Resp:	2644840
Ion Ratio	Lower	Upper	
95	100		
174	74.4	58.4	87.6
175	5.6	4.4	6.6





#74

1,2,4-Trimethylbenzene

Concen: 0.146 ppbv

RT: 16.74 min Scan# 4339

Delta R.T. -0.00 min

Lab File: VL036998.D

Acq: 19 May 2021 19:05

Instrument :

MSVOA_L

ClientSampleId :

KSV-04DL

Tot Ion:	105	Resp:	65282
Ion Ratio	Lower	Upper	
105	100		
120	45.1	40.6	61.0
91	14.4	37.4	56.0#
77	10.1	16.2	24.4#

Manual Integrations
APPROVED

MMDadoda
5/24/2021 3:01:47 PM

