

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052021\
 Data File : VL037038.D
 Acq On : 21 May 2021 00:11
 Operator : SY/AP
 Sample : M2424-08DUP 4X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 KSV-11DUP

Manual Integrations
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 5/24/2021 3:27:35 PM

Quant Time: May 22 23:36:54 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	5.63	49	1094791	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.14	114	3401708	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.04	117	3050128	10.00	ppbv	-0.02

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.37	95	2257169	9.85	ppbv	-0.02	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.50%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.97	51	20487	0.102	ppbv	93
4) Chloromethane	3.11	50	14123	0.207	ppbv	98
9) Propene	2.99	41	2795705m	38.927	ppbv	
10) Heptane	8.09	43	6229486	34.804	ppbv	98
11) Trichlorofluoromethane	3.92	101	20997m	0.122	ppbv	
13) Ethanol	3.58	45	328453	34.276	ppbv	98
15) Acetone	3.82	43	9583986m	85.467	ppbv	
17) tert-Butyl alcohol	4.27	59	212129	2.065	ppbv #	72
19) Isopropyl Alcohol	3.94	45	234380	3.888	ppbv #	30
20) Methylene Chloride	4.31	84	1175289	19.553	ppbv	99
26) Hexane	5.66	57	9547617	69.359	ppbv #	46
27) Carbon Disulfide	4.52	76	236365	1.704	ppbv #	92
30) Cyclohexane	7.09	84	83196m	0.711	ppbv	
34) 2-Butanone	5.21	43	1171960	9.462	ppbv	97
36) Benzene	6.85	78	1307641	4.463	ppbv	99
38) Trichloroethene	7.80	130	9233m	0.074	ppbv	
52) Tetrachloroethene	11.18	164	6398m	0.055	ppbv	
53) Toluene	9.77	91	551575	1.582	ppbv	98
58) Ethyl Benzene	12.67	91	58011	0.135	ppbv	96
59) m/p-Xylene	12.93	91	115117m	0.324	ppbv	
60) o-Xylene	13.64	91	45654m	0.135	ppbv	
61) Styrene	13.48	104	22932m	0.120	ppbv	
72) 4-Ethyltoluene	15.80	105	43643m	0.108	ppbv	
73) 1,3,5-Trimethylbenzene	15.95	105	46155	0.122	ppbv	93
74) 1,2,4-Trimethylbenzene	16.72	105	154547	0.395	ppbv #	68

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

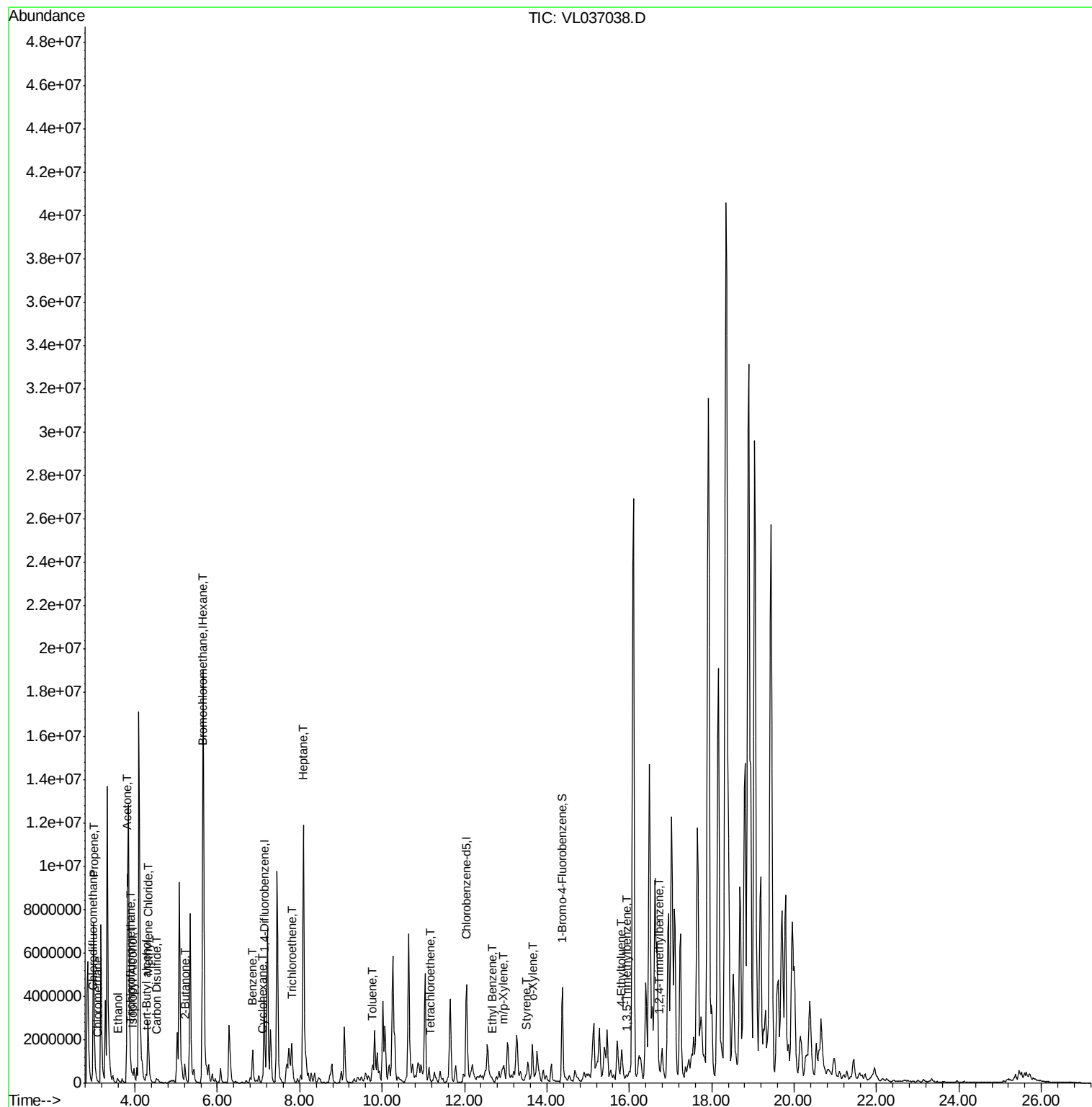
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL052021\
Data File : VL037038.D
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Misc : 400mL/MSVOA L
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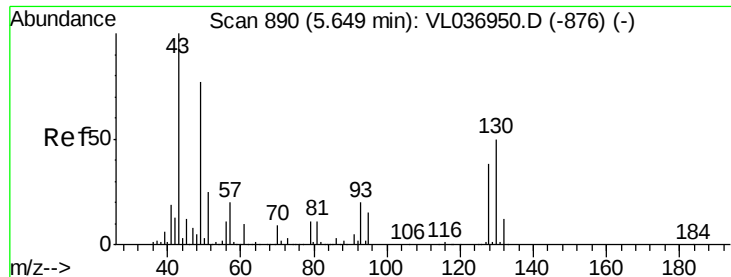
Instrument :
MSVOA_L
ClientSampleId :
KSV-11DUP

Manual Integrations
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Quant Time: May 22 23:36:54 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue May
QLast Update : Tue May 18 12:00:15 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.63 min Scan# 885

Delta R.T. -0.02 min

Lab File: VL037038.D

Acq: 21 May 2021 00:11

Instrument :

MSVOA_L

ClientSampleId :

KSV-11DUP

Tot Ion: 49 Resp: 1094791

Ion Ratio Lower Upper

49 100

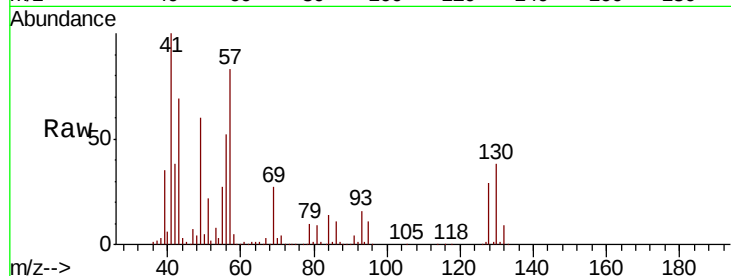
128 51.1 26.9 80.7

130 66.9 33.8 101.4

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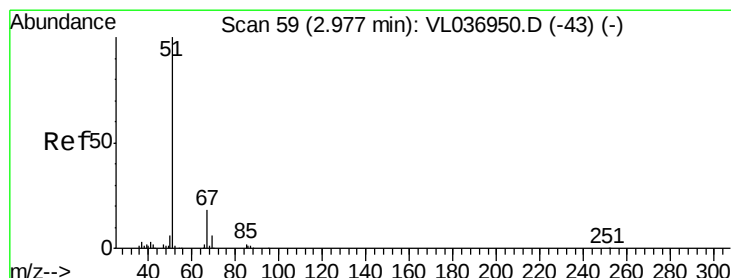
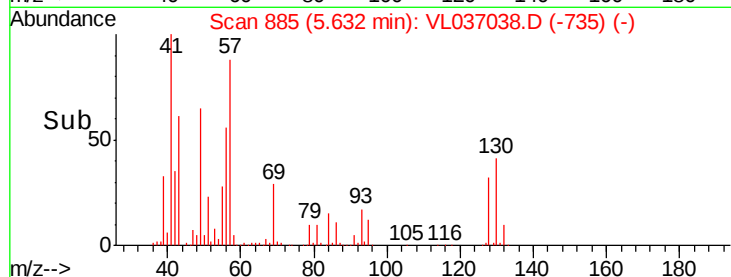
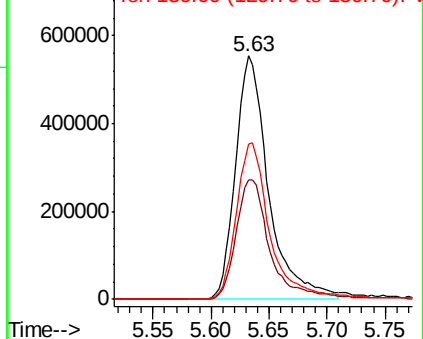
5/24/2021 3:27:35 PM



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



#3

Chlorodifluoromethane

Concen: 0.102 ppbv

RT: 2.97 min Scan# 56

Delta R.T. -0.01 min

Lab File: VL037038.D

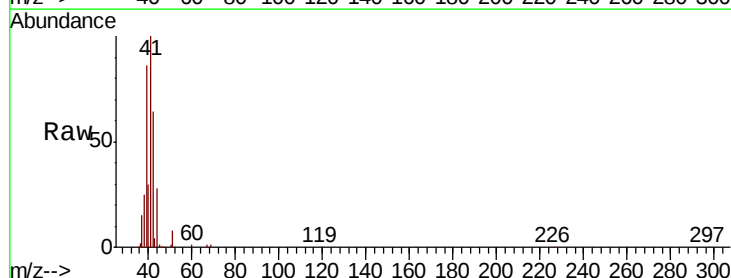
Acq: 21 May 2021 00:11

Tgt Ion: 51 Resp: 20487

Ion Ratio Lower Upper

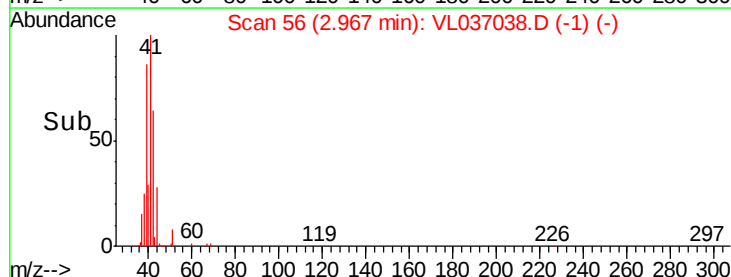
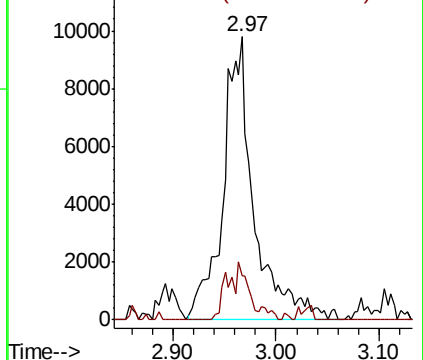
51 100

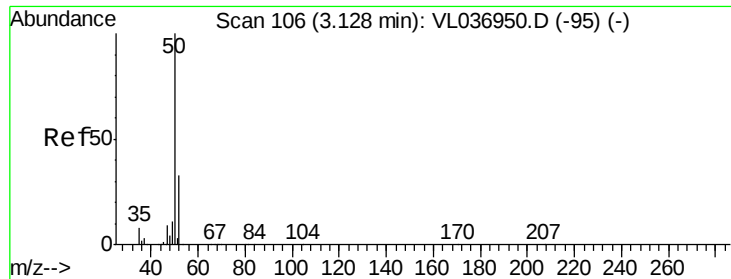
67 14.9 14.6 21.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#4

Chloromethane

Concen: 0.207 ppbv

RT: 3.11 min Scan# 101

Delta R.T. -0.02 min

Lab File: VL037038.D

Acq: 21 May 2021 00:11

Instrument :

MSVOA_L

ClientSampleId :

KSV-11DUP

Tot Ion: 50 Resp: 14123

Ion Ratio Lower Upper

50 100

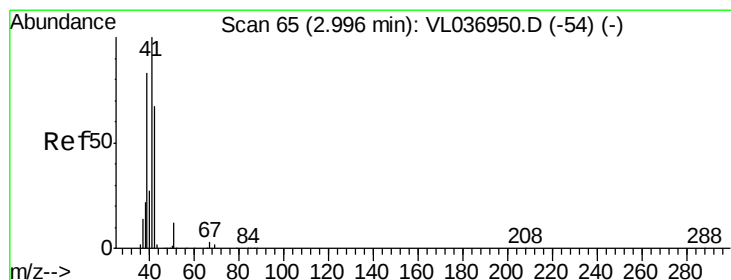
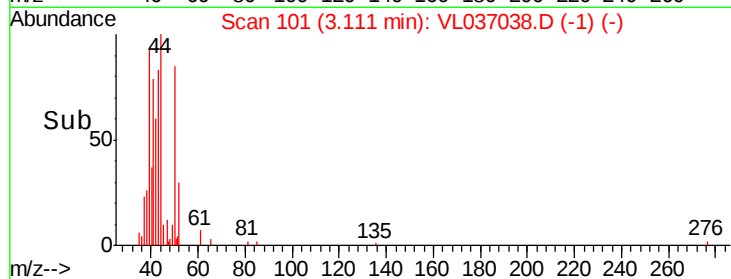
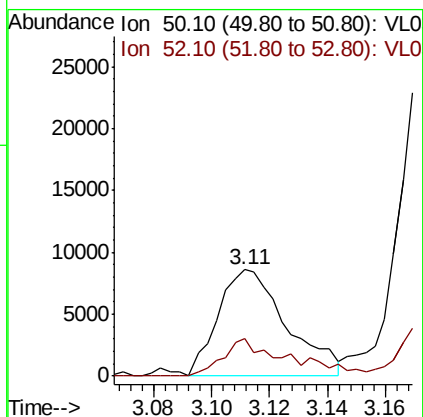
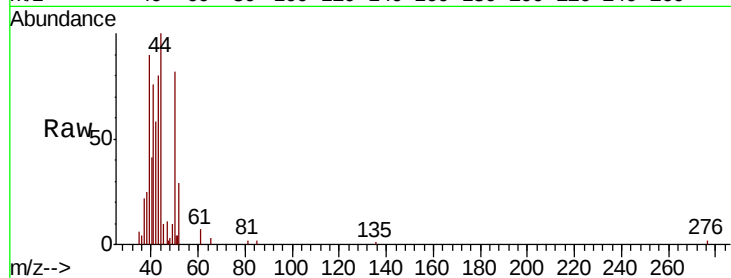
52 33.9 26.1 39.1

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#9

Propene

Concen: 38.927 ppbv m

RT: 2.99 min Scan# 64

Delta R.T. -0.00 min

Lab File: VL037038.D

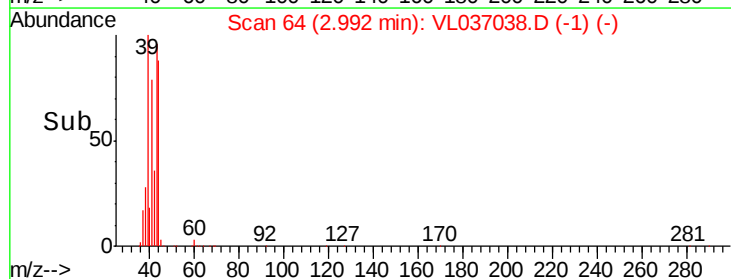
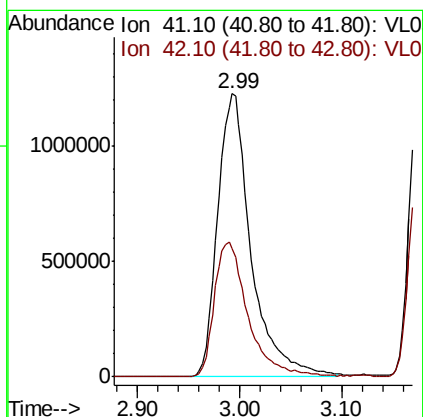
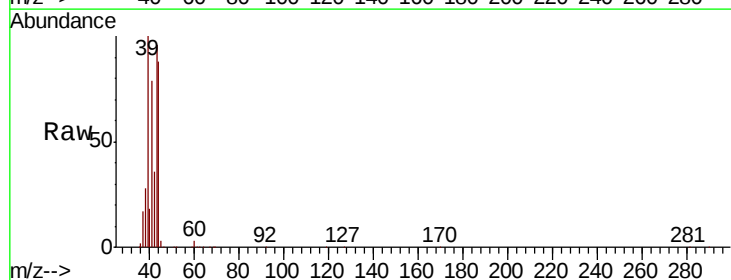
Acq: 21 May 2021 00:11

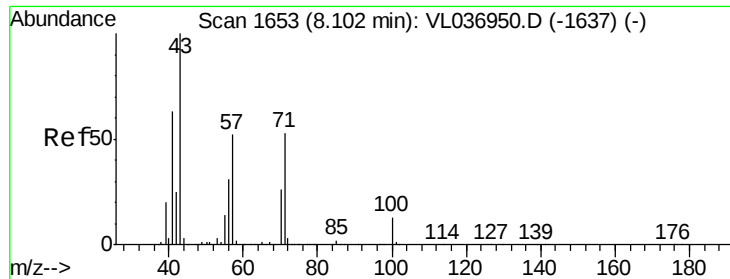
Tgt Ion: 41 Resp: 2795705

Ion Ratio Lower Upper

41 100

42 63.8 53.9 80.9





#10

Heptane

Concen: 34.804 ppbv

RT: 8.09 min Scan# 1649

Delta R.T. -0.01 min

Lab File: VL037038.D

Acq: 21 May 2021 00:11

Instrument :

MSVOA_L

ClientSampleId :

KSV-11DUP

Tot Ion: 43 Resp: 6229486

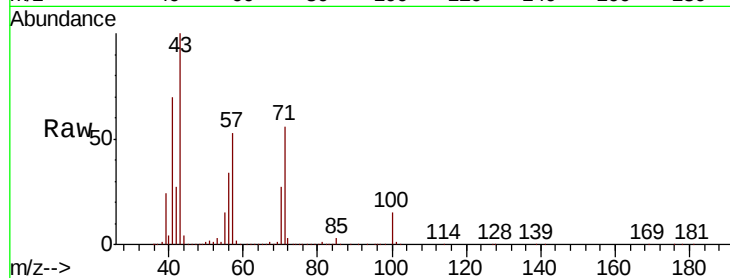
Ion Ratio Lower Upper

43 100

57 52.4 41.0 61.6

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

3000000

2500000

2000000

1500000

1000000

500000

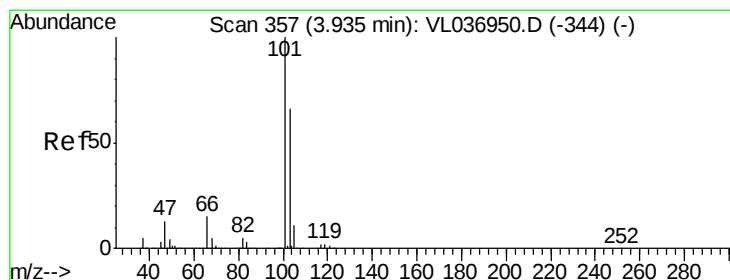
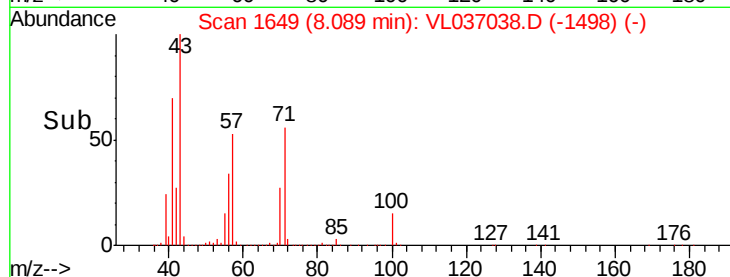
0

8.00

8.10

8.20

Time-->



#11

Trichlorofluoromethane

Concen: 0.122 ppbv m

RT: 3.92 min Scan# 352

Delta R.T. -0.02 min

Lab File: VL037038.D

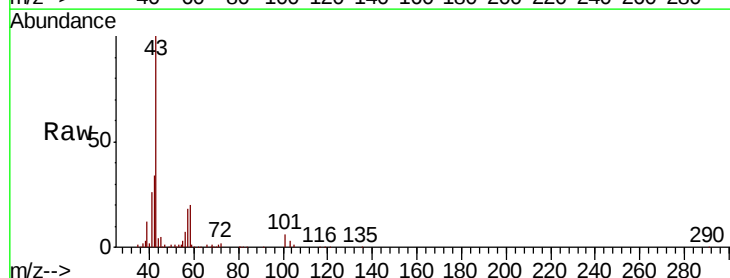
Acq: 21 May 2021 00:11

Tgt Ion:101 Resp: 20997

Ion Ratio Lower Upper

101 100

103 59.9 52.6 79.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

10000

5000

0

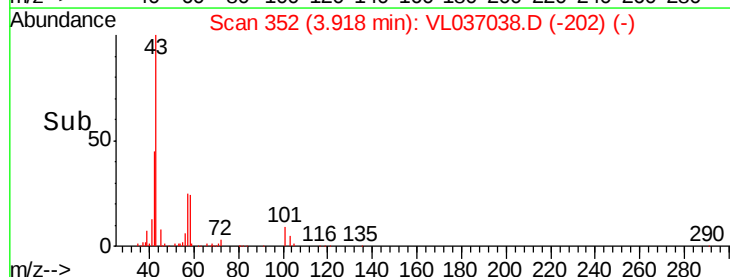
3.85

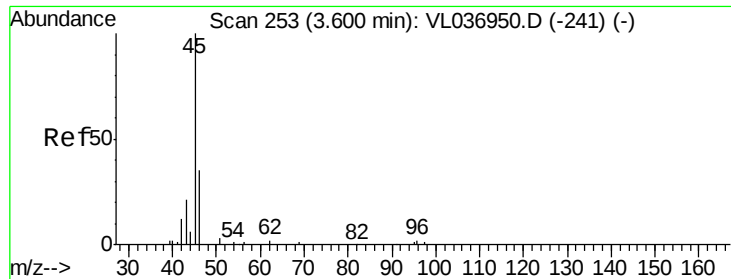
3.90

3.95

4.00

Time-->





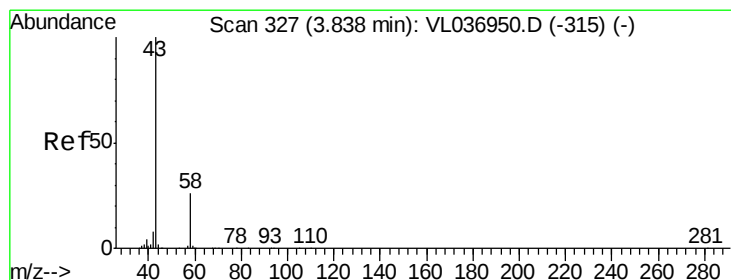
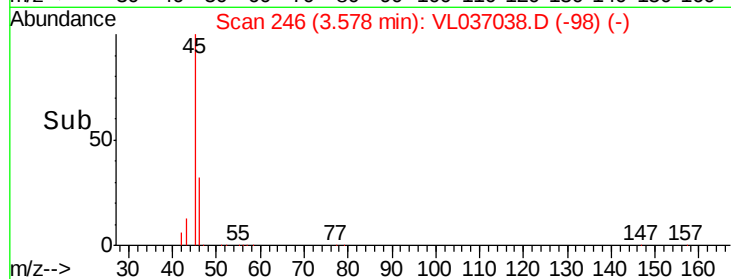
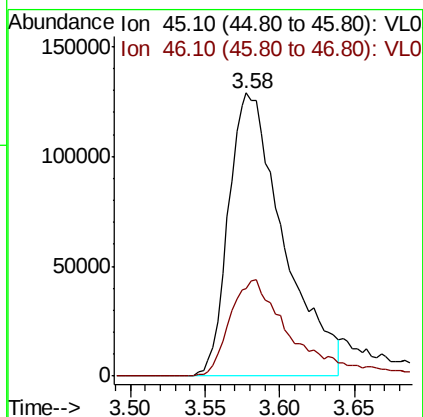
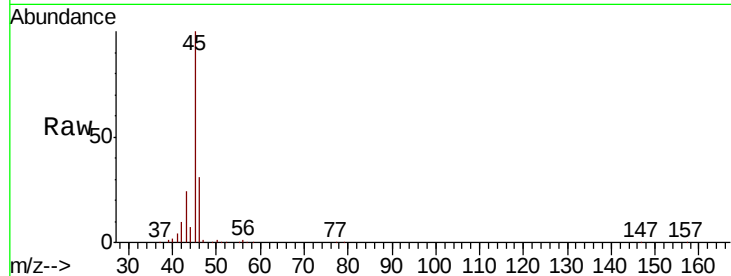
#13
Ethanol
Concen: 34.276 ppbv
RT: 3.58 min Scan# 246
Delta R.T. -0.02 min
Lab File: VL037038.D
Acq: 21 May 2021 00:11

Instrument :
MSVOA_L
ClientSampleId :
KSV-11DUP

Tot Ion	Ratio	Lower	Upper
45	100		
46	39.6	16.3	65.3

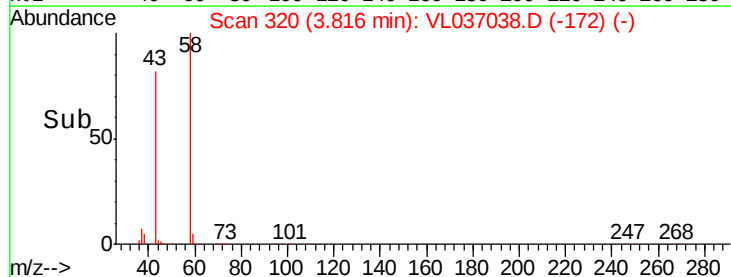
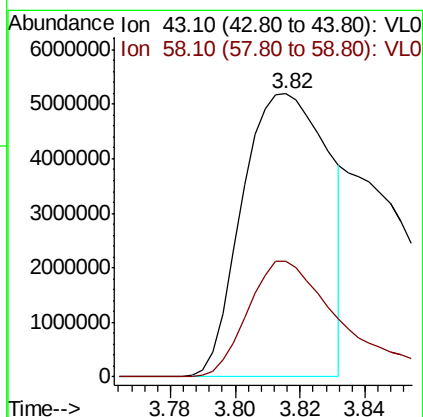
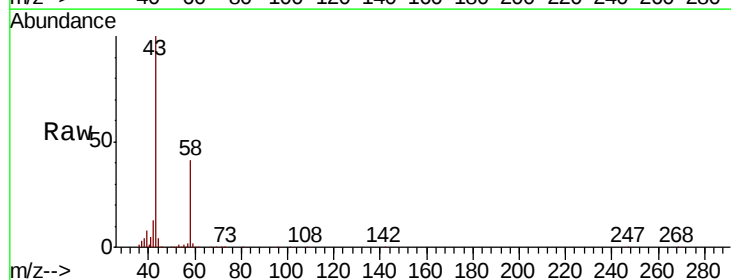
Manual Integrations
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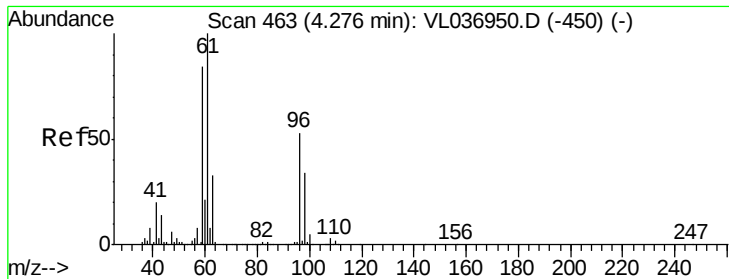
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#15
Acetone
Concen: 85.467 ppbv m
RT: 3.82 min Scan# 320
Delta R.T. -0.02 min
Lab File: VL037038.D
Acq: 21 May 2021 00:11

Tgt Ion	Ratio	Lower	Upper
43	100		
58	49.5	24.0	36.0#





#17

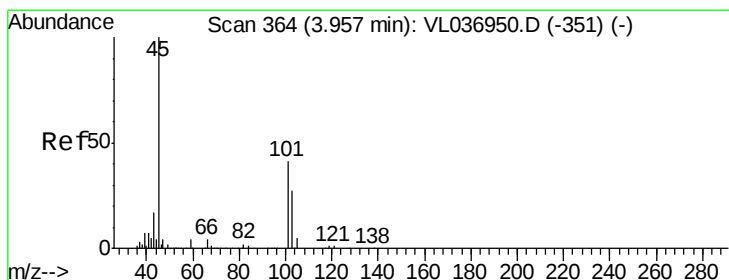
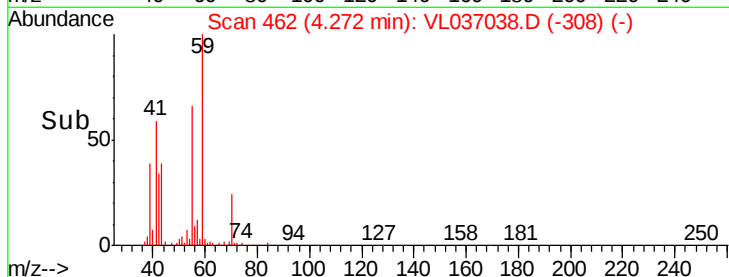
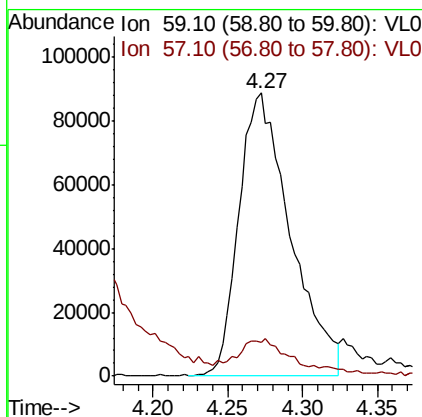
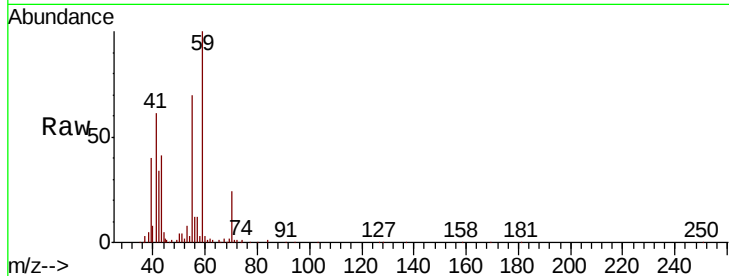
tert-Butyl alcohol
 Concen: 2.065 ppbv
 RT: 4.27 min Scan# 462
 Delta R.T. -0.00 min
 Lab File: VL037038.D
 Acq: 21 May 2021 00:11

Instrument :
 MSVOA_L
 ClientSampled :
 KSV-11DUP

Tot Ion	59	Resp	212129
Ion Ratio	Lower	Upper	
59	100		
57	0.0	8.3	12.5#

Manual Integrations
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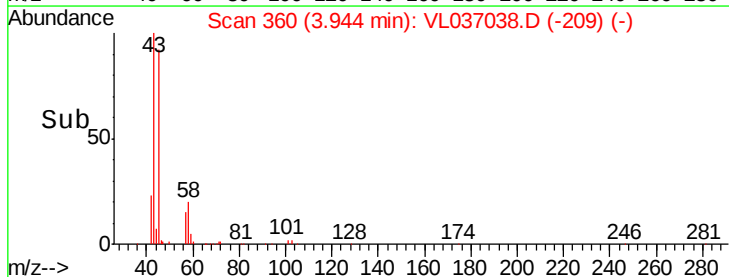
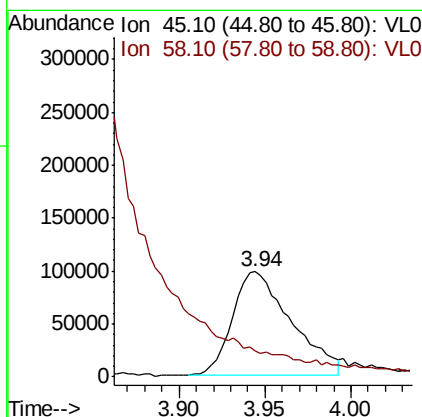
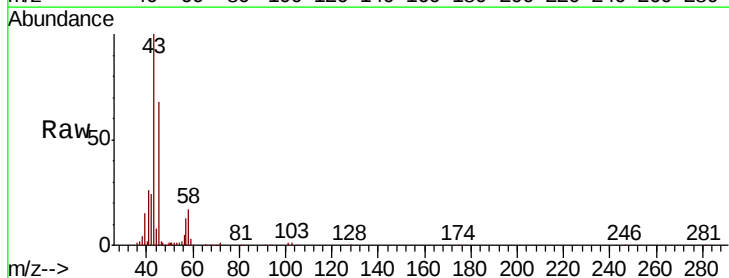
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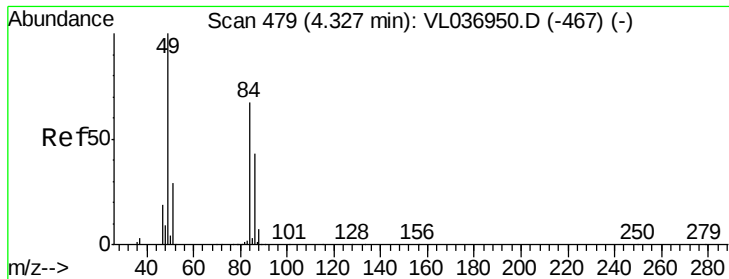


#19

Isopropyl Alcohol
 Concen: 3.888 ppbv
 RT: 3.94 min Scan# 360
 Delta R.T. -0.01 min
 Lab File: VL037038.D
 Acq: 21 May 2021 00:11

Tgt Ion	45	Resp	234380
Ion Ratio	Lower	Upper	
45	100		
58	0.0	37.2	55.8#





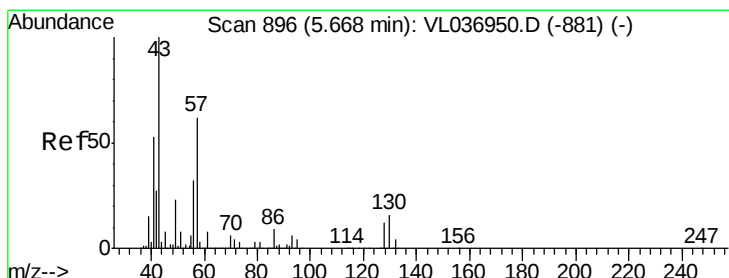
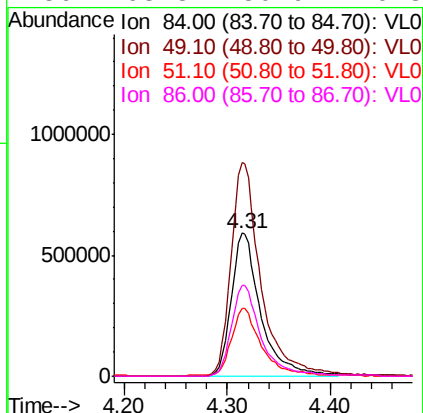
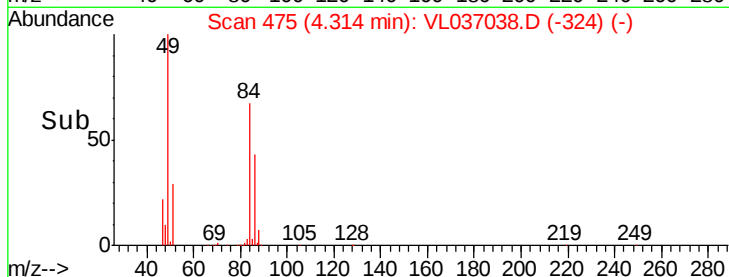
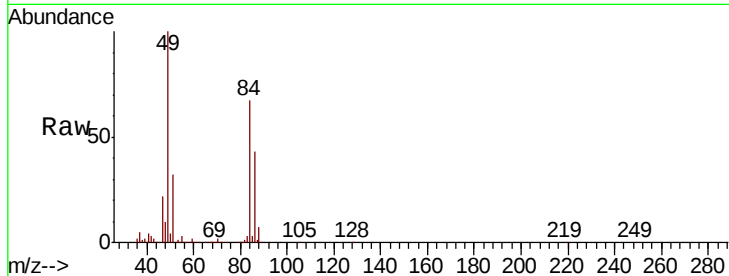
#20
Methvlene Chloride
Concen: 19.553 ppbv
RT: 4.31 min Scan# 475
Delta R.T. -0.01 min
Lab File: VL037038.D
Acq: 21 May 2021 00:11

Instrument :
MSVOA_L
ClientSampleId :
KSV-11DUP

Tot Ion	Ratio	Lower	Upper
84	100		
49	149.0	119.8	179.6
51	46.4	35.1	52.7
86	63.8	50.9	76.3

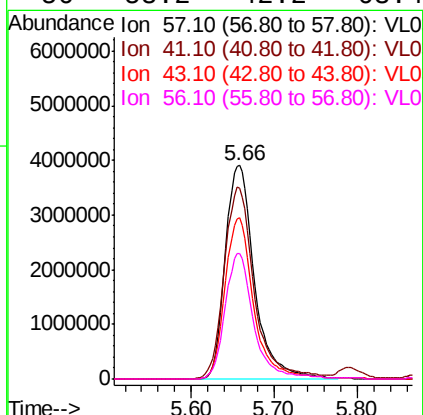
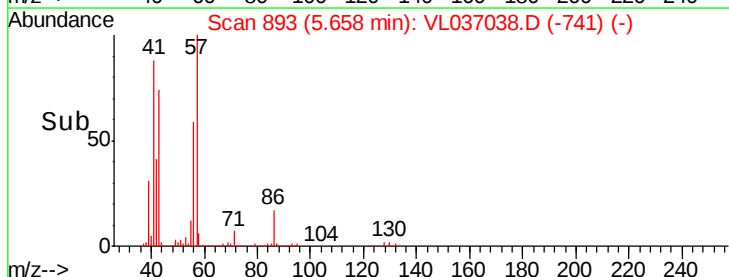
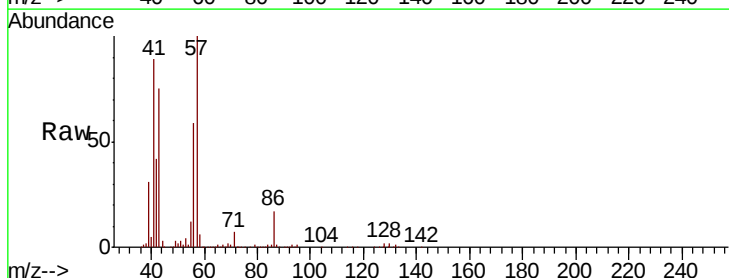
Manual Integrations
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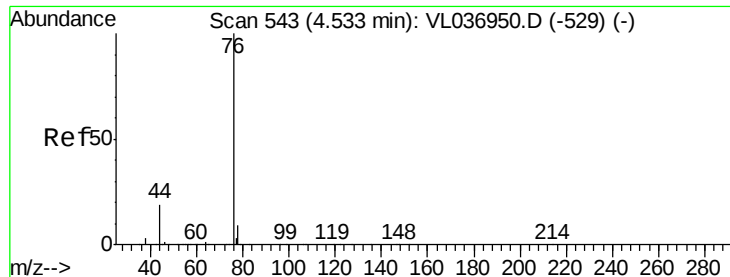
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#26
Hexane
Concen: 69.359 ppbv
RT: 5.66 min Scan# 893
Delta R.T. -0.01 min
Lab File: VL037038.D
Acq: 21 May 2021 00:11

Tgt Ion	Ratio	Lower	Upper
57	100		
41	93.3	70.5	105.7
43	74.4	165.8	248.8#
56	58.2	42.2	63.4





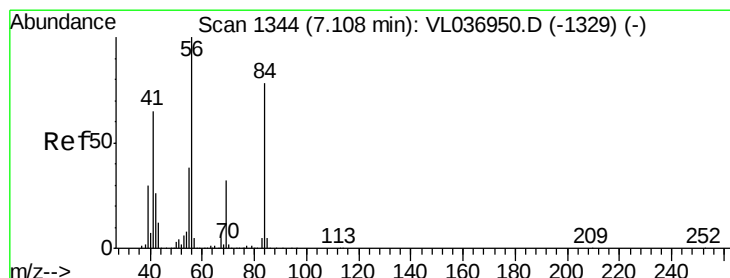
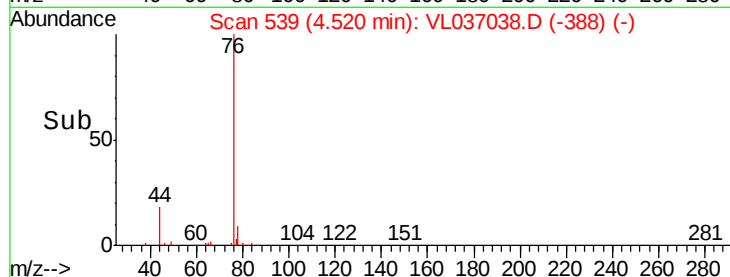
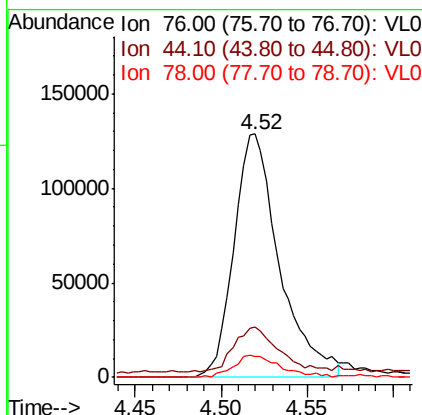
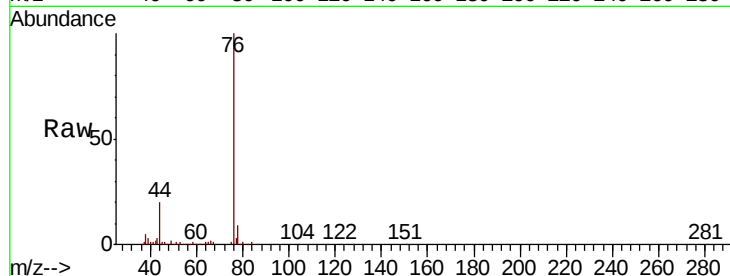
#27
Carbon Disulfide
Concen: 1.704 ppbv
RT: 4.52 min Scan# 539
Delta R.T. -0.01 min
Lab File: VL037038.D
Acq: 21 May 2021 00:11

Instrument :
MSVOA_L
ClientSampleId :
KSV-11DUP

Tot Ion	Ratio	Lower	Upper
76	100		
44	24.4	15.5	23.3#
78	10.3	7.8	11.6

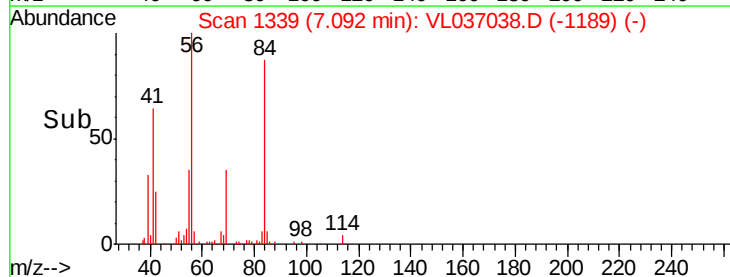
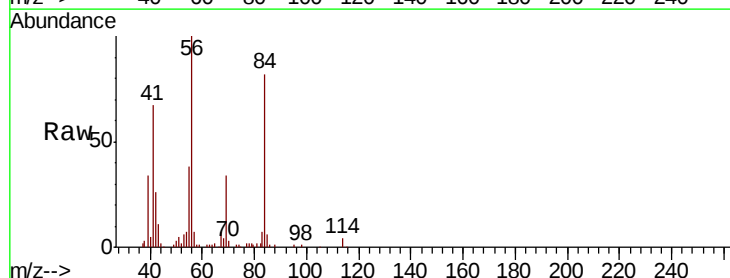
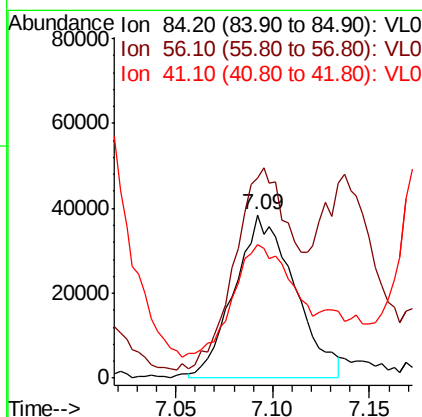
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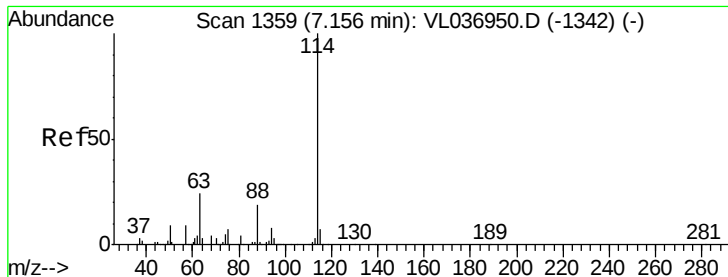
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#30
Cyclohexane
Concen: 0.711 ppbv m
RT: 7.09 min Scan# 1339
Delta R.T. -0.02 min
Lab File: VL037038.D
Acq: 21 May 2021 00:11

Tgt Ion	Ratio	Lower	Upper
84	100		
56	0.0	107.9	161.9#
41	0.0	65.5	98.3#





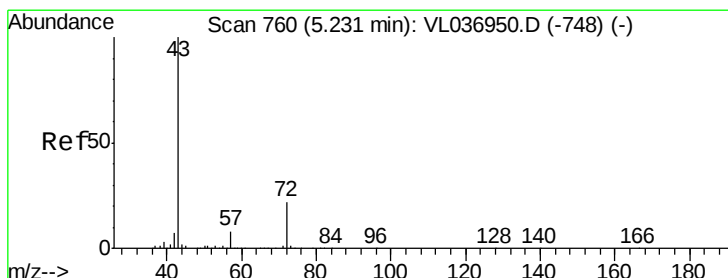
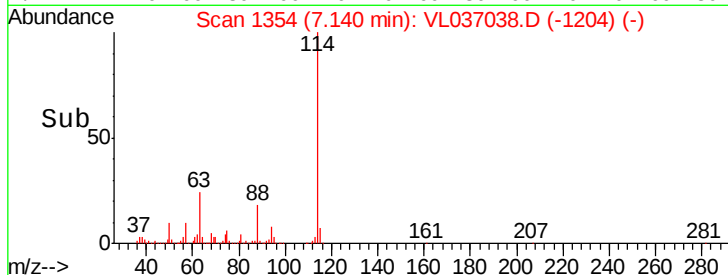
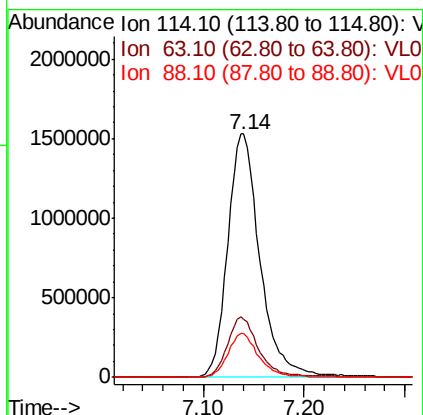
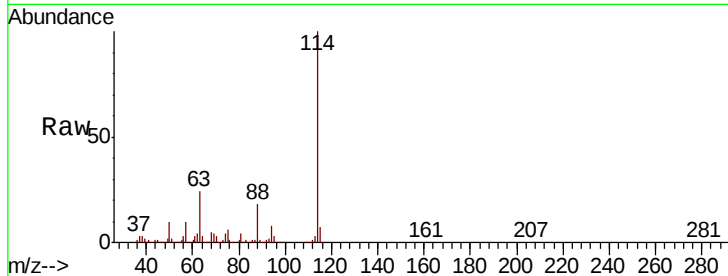
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.14 min Scan# 1354
 Delta R.T. -0.02 min
 Lab File: VL037038.D
 Acq: 21 May 2021 00:11

Instrument :
 MSVOA_L
 ClientSampleId :
 KSV-11DUP

Tot Ion	Ratio	Lower	Upper
114	100		
63	24.4	19.6	29.4
88	17.6	14.6	21.8

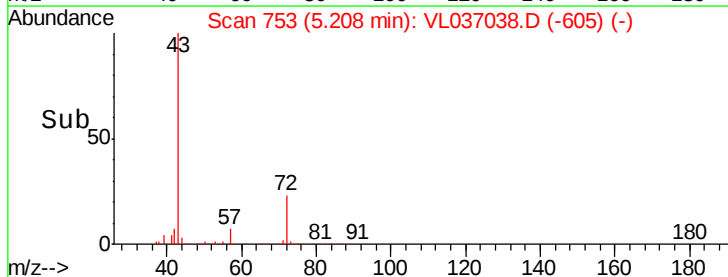
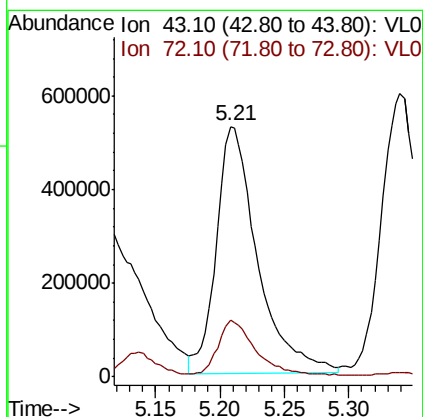
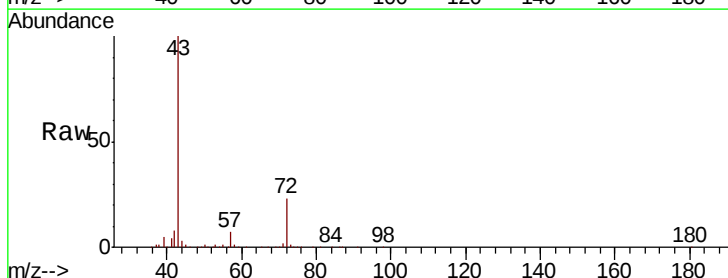
Manual Integrations
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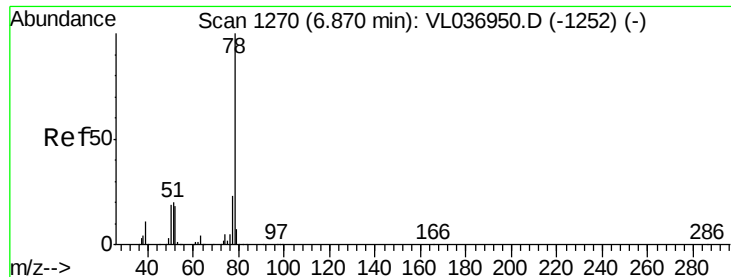
MMDadoda
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#34
 2-Butanone
 Concen: 9.462 ppbv
 RT: 5.21 min Scan# 753
 Delta R.T. -0.02 min
 Lab File: VL037038.D
 Acq: 21 May 2021 00:11

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.3	19.0	28.4





#36

Benzene

Concen: 4.463 ppbv

RT: 6.85 min Scan# 1265

Delta R.T. -0.02 min

Lab File: VL037038.D

Acq: 21 May 2021 00:11

Instrument :

MSVOA_L

ClientSampleId :

KSV-11DUP

Tot Ion: 78 Resp: 1307641

Ion Ratio Lower Upper

78 100

77 23.7 18.6 28.0

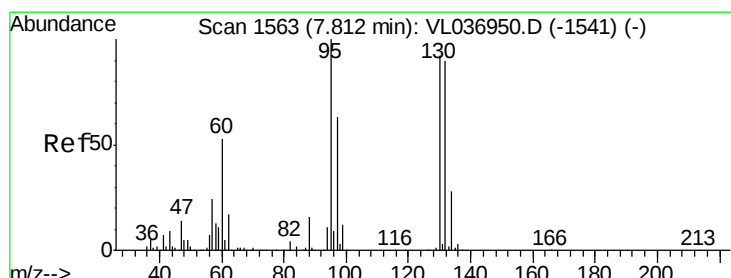
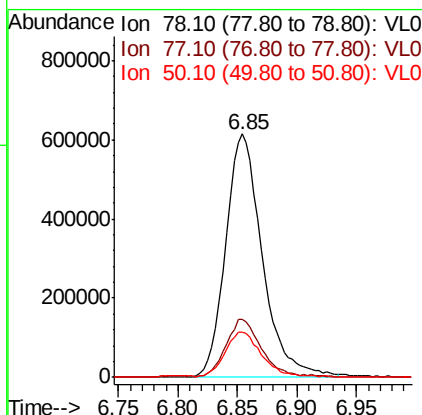
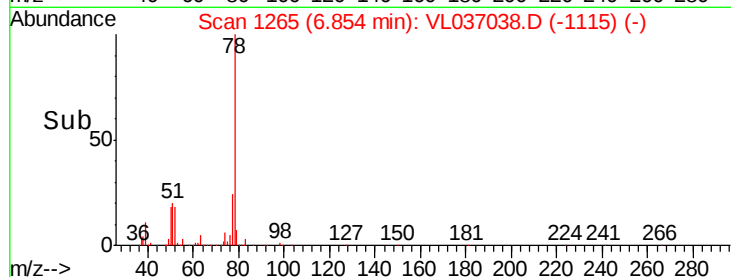
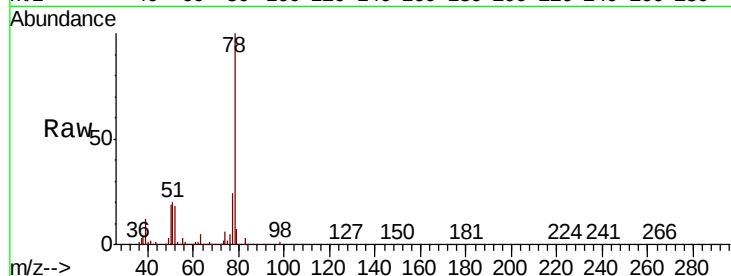
50 18.2 15.0 22.4

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#38

Trichloroethene

Concen: 0.074 ppbv m

RT: 7.80 min Scan# 1559

Delta R.T. -0.01 min

Lab File: VL037038.D

Acq: 21 May 2021 00:11

Tgt Ion: 130 Resp: 9233

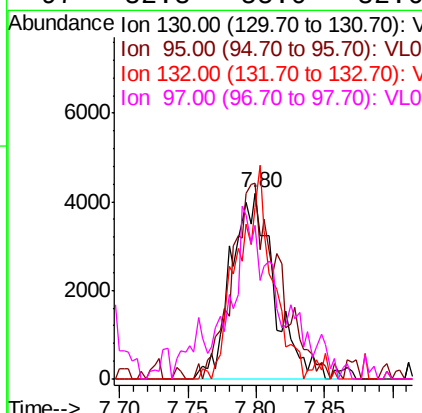
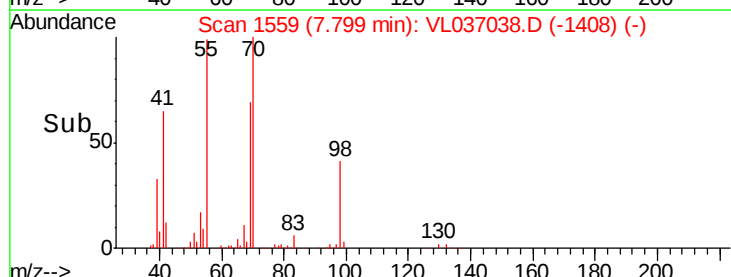
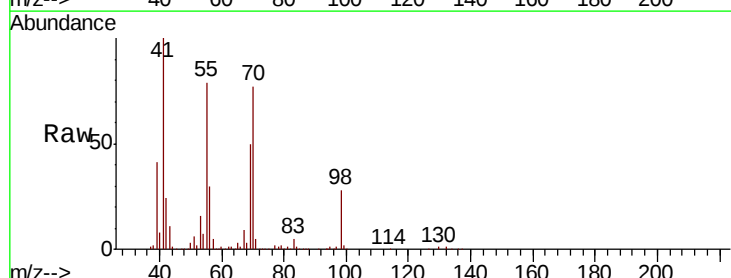
Ion Ratio Lower Upper

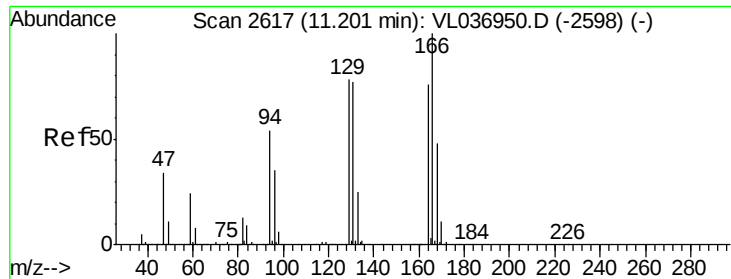
130 100

95 105.1 86.9 130.3

132 92.5 78.4 117.6

97 82.8 55.0 82.6#





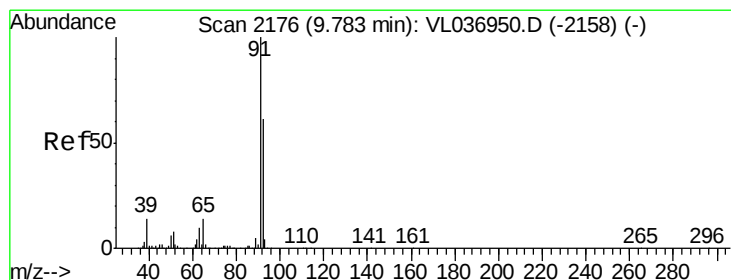
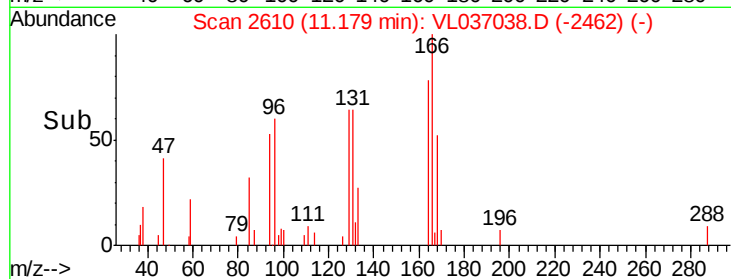
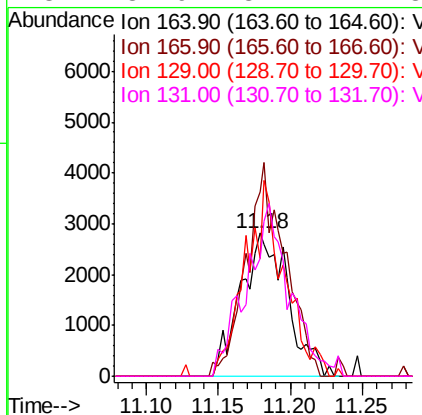
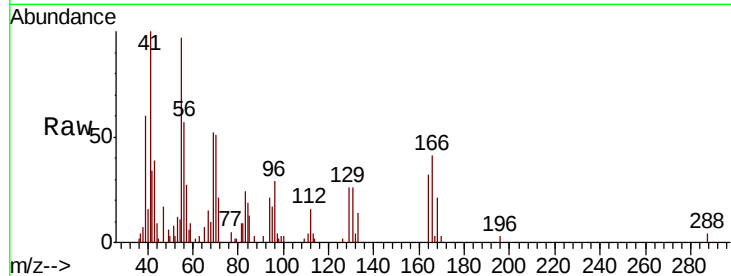
#52
Tetrachloroethene
Concen: 0.055 ppbv m
RT: 11.18 min Scan# 2610
Delta R.T. -0.02 min
Lab File: VL037038.D
Acq: 21 May 2021 00:11

Instrument :
MSVOA_L
ClientSampleId :
KSV-11DUP

Tot Ion	Ratio	Lower	Upper
164	100		
166	128.7	105.5	158.3
129	82.2	81.8	122.8
131	81.9	81.2	121.8

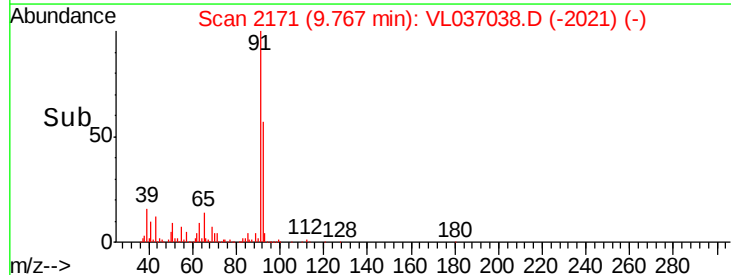
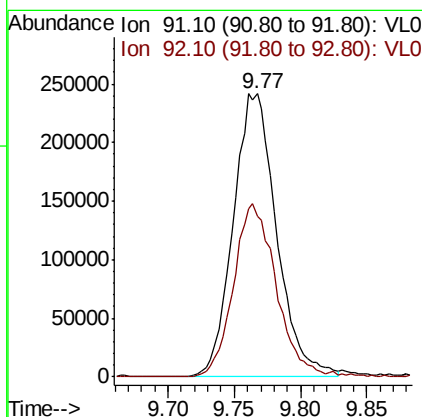
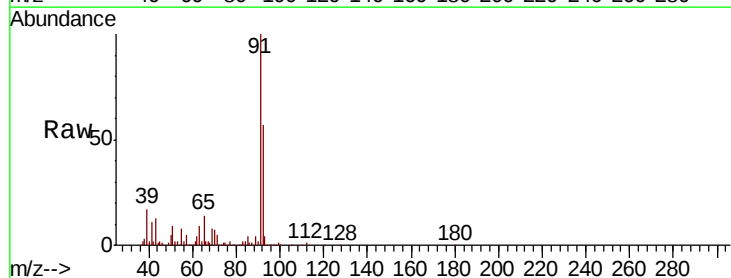
Manual Integrations
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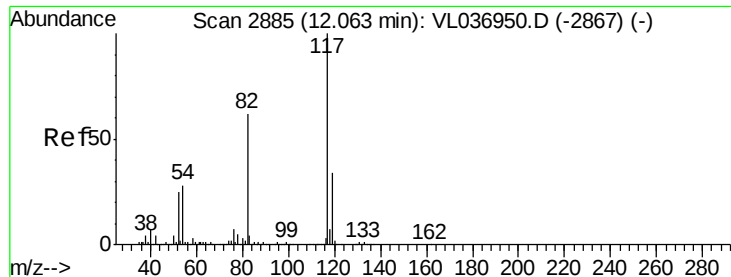
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#53
Toluene
Concen: 1.582 ppbv
RT: 9.77 min Scan# 2171
Delta R.T. -0.02 min
Lab File: VL037038.D
Acq: 21 May 2021 00:11

Tgt Ion	Ratio	Lower	Upper
91	100		
92	60.3	49.5	74.3





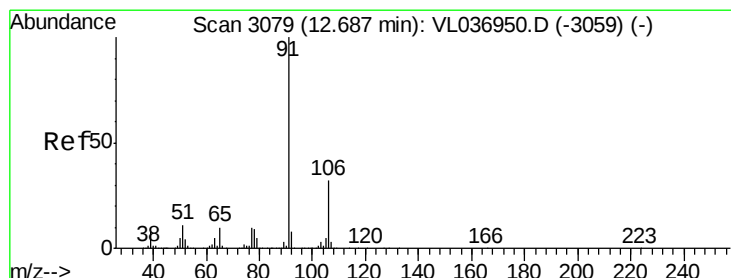
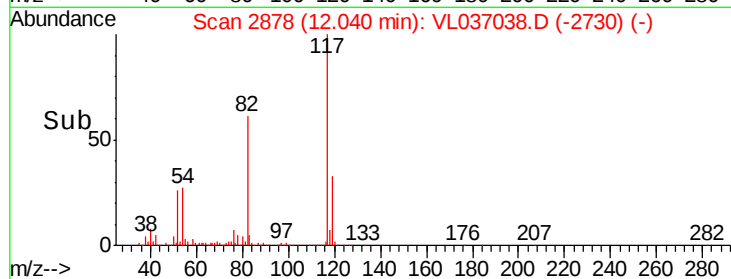
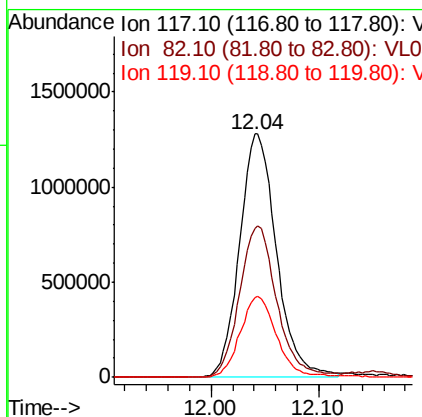
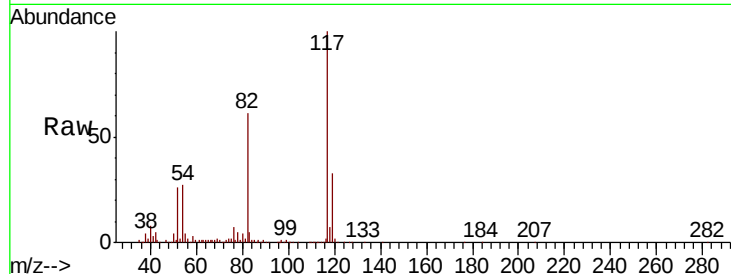
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.04 min Scan# 2878
Delta R.T. -0.02 min
Lab File: VL037038.D
Acq: 21 May 2021 00:11

Instrument :
MSVOA_L
ClientSampleId :
KSV-11DUP

Tot Ion	Ratio	Lower	Upper
117	100		
82	63.3	52.6	79.0
119	33.5	46.6	70.0

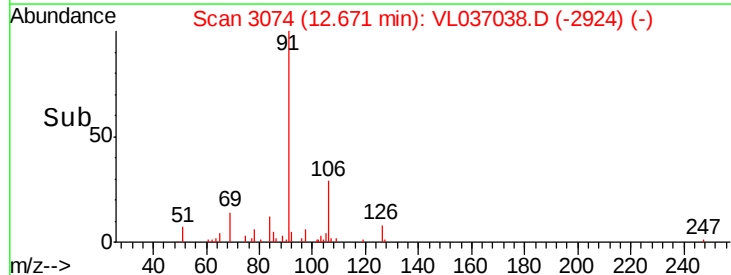
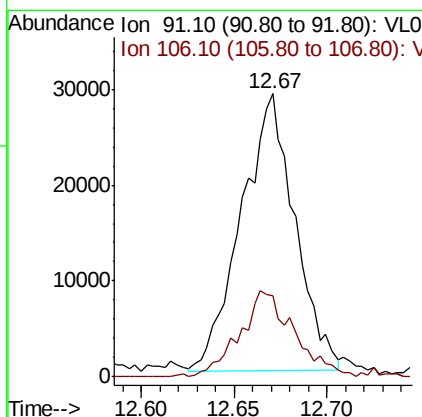
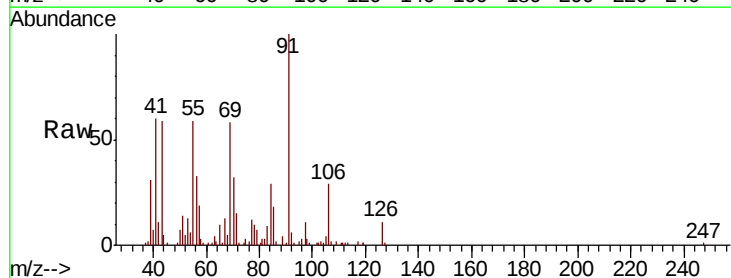
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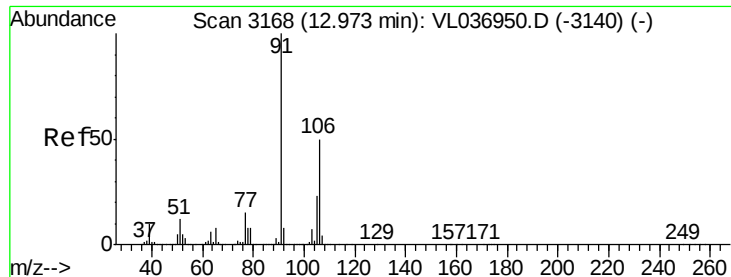
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#58
Ethyl Benzene
Concen: 0.135 ppbv
RT: 12.67 min Scan# 3074
Delta R.T. -0.02 min
Lab File: VL037038.D
Acq: 21 May 2021 00:11

Tgt Ion	Ratio	Lower	Upper
91	100		
106	29.5	25.6	38.4





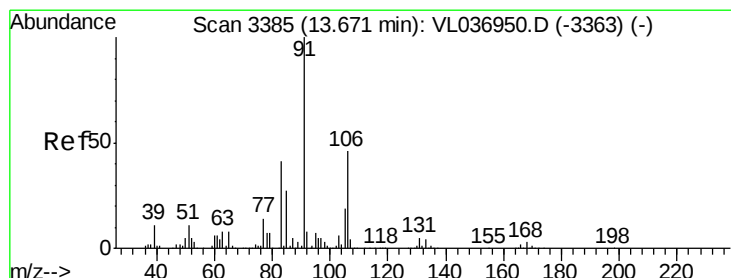
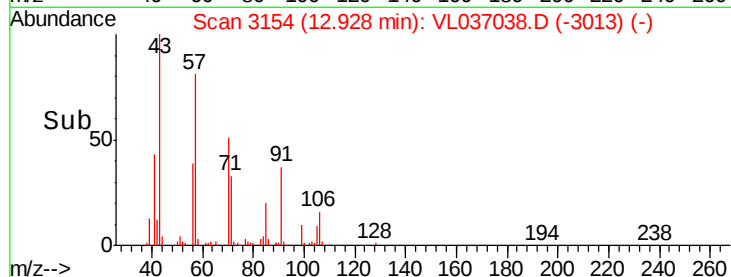
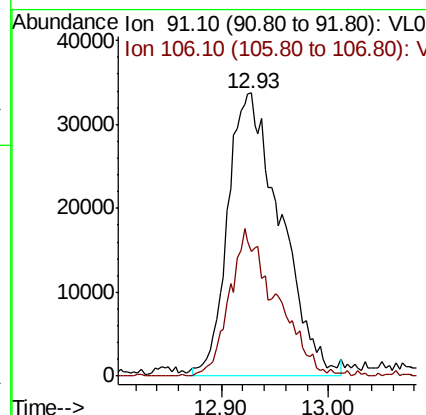
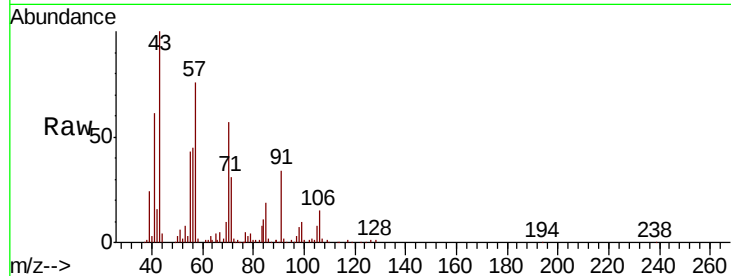
#59
m/p-Xylene
Concen: 0.324 ppbv m
RT: 12.93 min Scan# 3154
Delta R.T. -0.05 min
Lab File: VL037038.D
Acq: 21 May 2021 00:11

Instrument :
MSVOA_L
ClientSampleId :
KSV-11DUP

Tot Ion: 91 Resp: 115117
Ion Ratio Lower Upper
91 100
106 0.0 37.4 56.2#

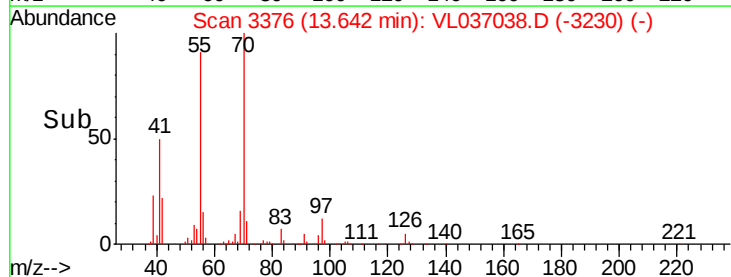
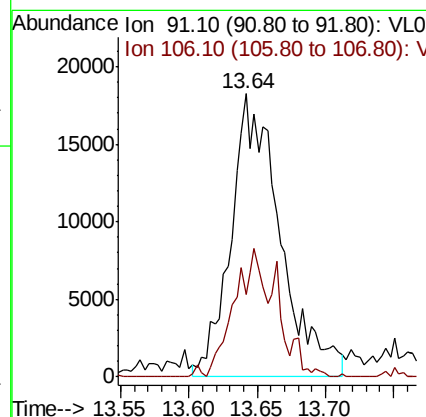
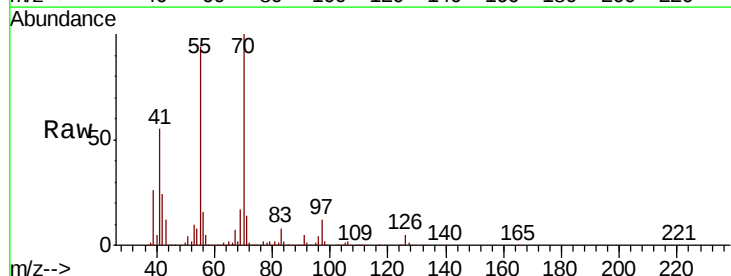
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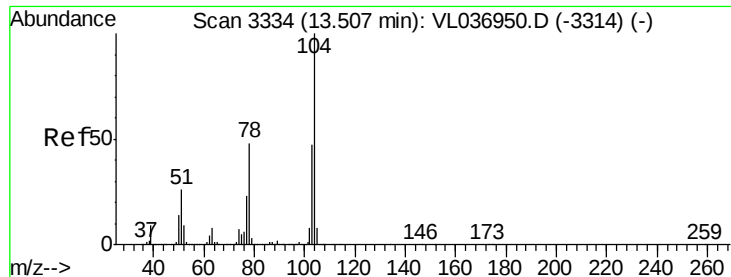
MMDadoda
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#60
o-Xylene
Concen: 0.135 ppbv m
RT: 13.64 min Scan# 3376
Delta R.T. -0.03 min
Lab File: VL037038.D
Acq: 21 May 2021 00:11

Tgt Ion: 91 Resp: 45654
Ion Ratio Lower Upper
91 100
106 0.0 23.4 70.3#





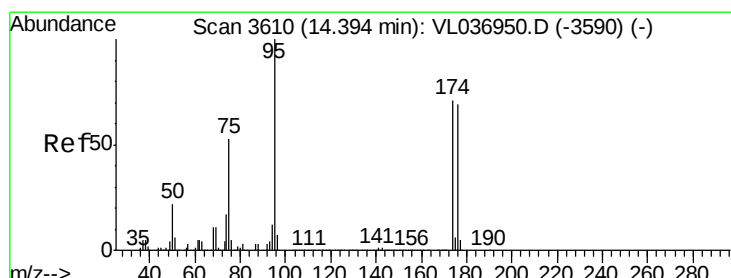
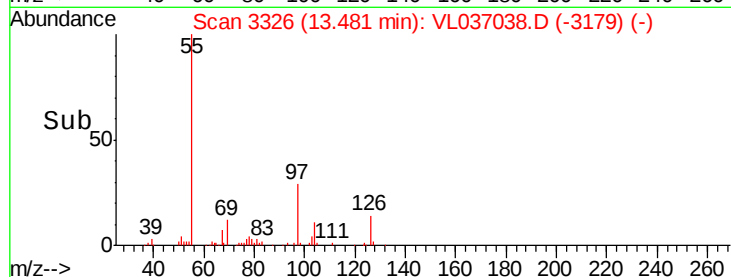
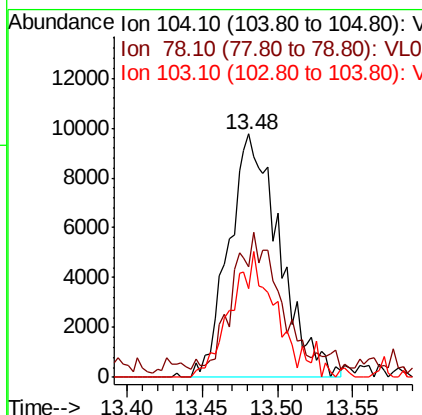
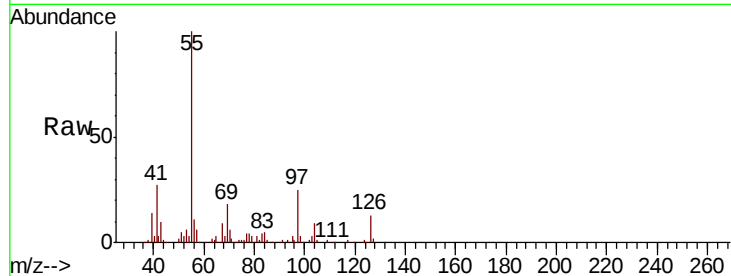
#61
Stvrene
Concen: 0.120 ppbv m
RT: 13.48 min Scan# 3326
Delta R.T. -0.03 min
Lab File: VL037038.D
Acq: 21 May 2021 00:11

Instrument :
MSVOA_L
ClientSampleId :
KSV-11DUP

Tot Ion	Ratio	Lower	Upper
104	100		
78	62.0	39.0	58.6#
103	47.5	38.0	57.0

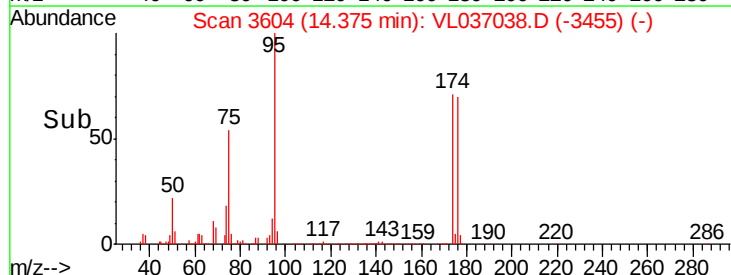
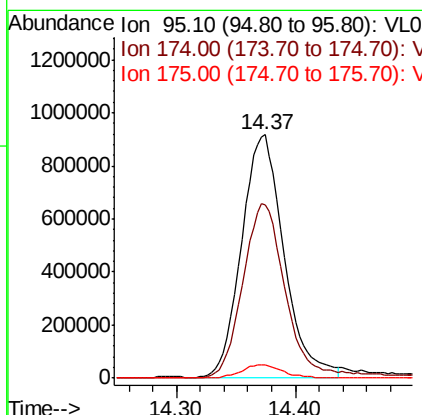
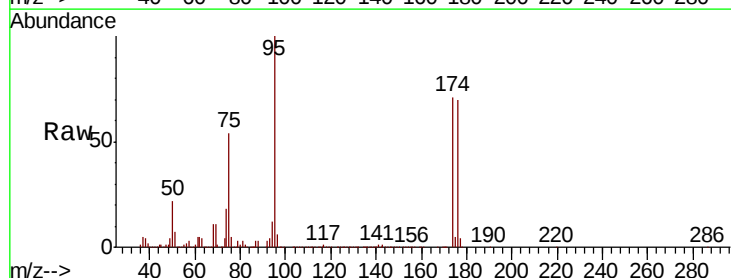
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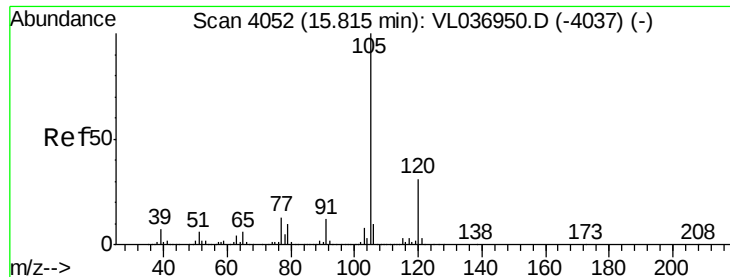
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#68
1-Bromo-4-Fluorobenzene
Concen: 9.851 ppbv
RT: 14.37 min Scan# 3604
Delta R.T. -0.02 min
Lab File: VL037038.D
Acq: 21 May 2021 00:11

Tgt Ion	Ratio	Lower	Upper
95	100		
174	75.3	58.4	87.6
175	5.7	4.4	6.6





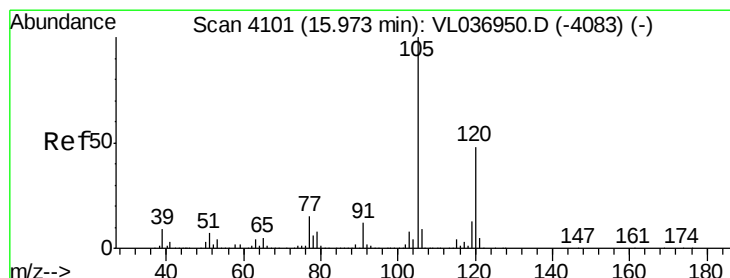
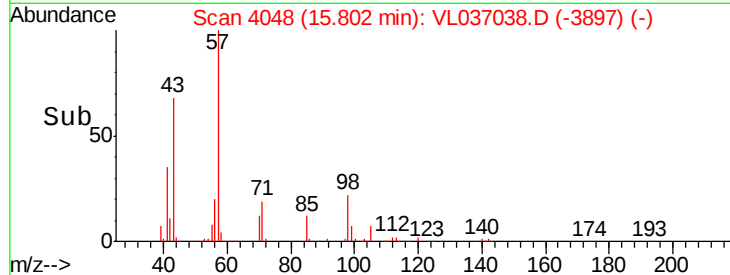
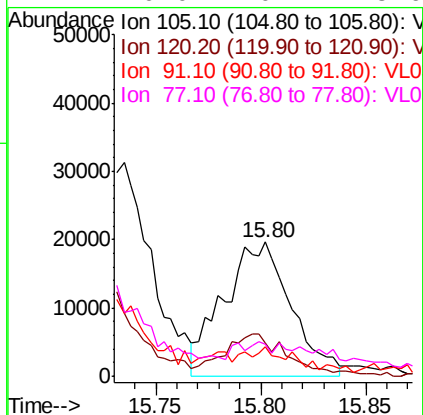
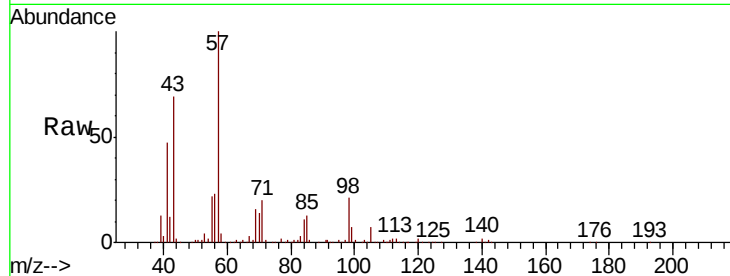
#72
4-Ethyltoluene
Concen: 0.108 ppbv m
RT: 15.80 min Scan# 4048
Delta R.T. -0.01 min
Lab File: VL037038.D
Acq: 21 May 2021 00:11

Instrument :
MSVOA_L
ClientSampleId :
KSV-11DUP

Tot Ion:	105	Resp:	43643
Ion Ratio	Lower	Upper	
105	100		
120	0.0	24.6	37.0#
91	0.0	9.8	14.6#
77	0.0	10.4	15.6#

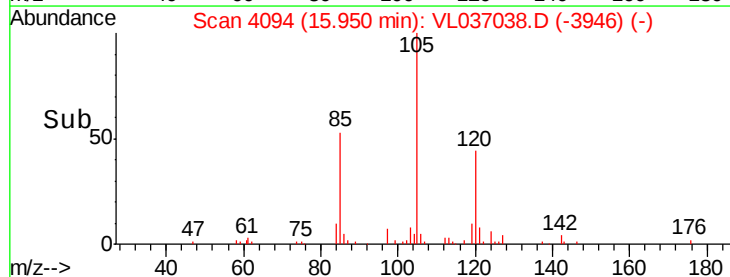
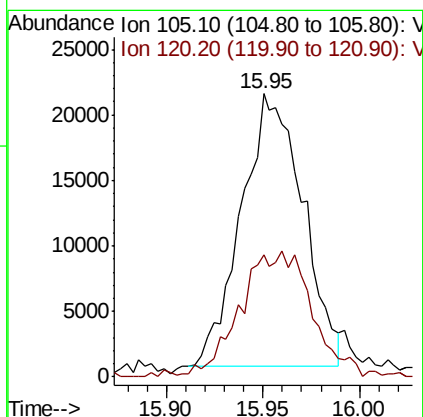
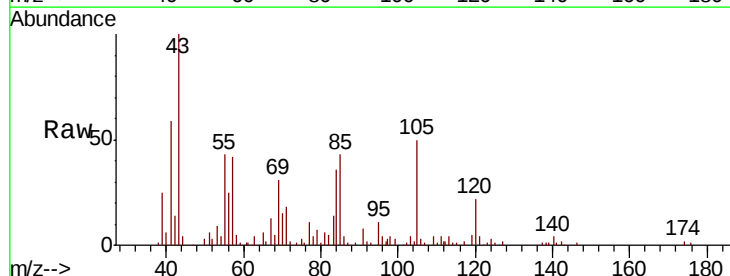
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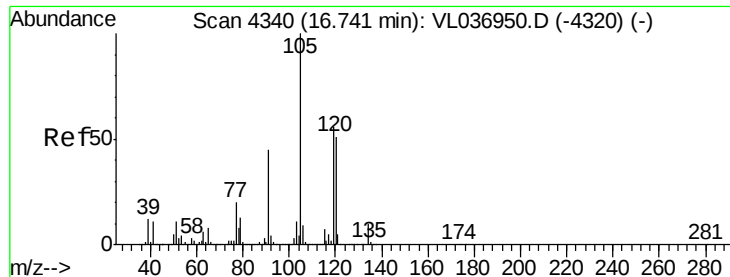
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#73
1,3,5-Trimethylbenzene
Concen: 0.122 ppbv
RT: 15.95 min Scan# 4094
Delta R.T. -0.02 min
Lab File: VL037038.D
Acq: 21 May 2021 00:11

Tgt Ion:	105	Resp:	46155
Ion Ratio	Lower	Upper	
105	100		
120	43.9	38.6	58.0





#74
 1,2,4-Trimethylbenzene
 Concen: 0.395 ppbv
 RT: 16.72 min Scan# 4334
 Delta R.T. -0.02 min
 Lab File: VL037038.D
 Acq: 21 May 2021 00:11

Instrument :
 MSVOA_L
 ClientSampleId :
 KSV-11DUP

Tot Ion	Ratio	Resp Lower	Upper
105	100		
120	40.0	40.6	61.0#
91	9.6	37.4	56.0#
77	10.5	16.2	24.4#

Manual Integrations
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