

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111620\
 Data File : VL035955.D
 Acq On : 16 Nov 2020 22:33
 Operator : SY/AP
 Sample : L4722-05
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SR-5

Manual Integrations
 APPROVED

MMDadoda
 11/18/2020 2:11:28 PM

Quant Time: Nov 17 22:16:55 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov 04
 QLast Update : Wed Nov 04 02:40:06 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1198159	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	4167187	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3872099	10.00	ppbv	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.42	95	3013207	10.95	ppbv	0.00	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	109.50%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	61297	0.272	ppbv	99
3) Chlorodifluoromethane	2.98	51	593040	4.133	ppbv #	87
4) Chloromethane	3.14	50	39185	0.562	ppbv	97
9) Propene	3.01	41	102751m	1.957	ppbv	
10) Heptane	8.13	43	79389	0.547	ppbv	100
11) Trichlorofluoromethane	3.95	101	63042	0.223	ppbv	100
13) Ethanol	3.64	45	16528826	1450.764	ppbv	97
15) Acetone	3.84	43	4053502	31.645	ppbv	97
19) Isopropyl Alcohol	4.01	45	3856595	48.993	ppbv #	97
20) Methylene Chloride	4.34	84	97771	1.084	ppbv	93
26) Hexane	5.69	57	285707	2.053	ppbv #	75
29) Chloroform	5.75	83	228295	0.835	ppbv	99
30) Cyclohexane	7.17	84	26781m	0.177	ppbv	
34) 2-Butanone	5.25	43	92428	0.683	ppbv	99
35) Carbon Tetrachloride	7.02	117	17816m	0.080	ppbv	
36) Benzene	6.89	78	293459	0.947	ppbv	96
44) 2,2,4-Trimethylpentane	7.87	57	75557	0.184	ppbv #	67
52) Tetrachloroethene	11.23	164	5874m	0.040	ppbv	
53) Toluene	9.81	91	975968	2.611	ppbv	98
58) Ethyl Benzene	12.72	91	107321	0.228	ppbv	88
59) m/p-Xylene	12.98	91	315646	0.791	ppbv	99
60) o-Xylene	13.70	91	89959	0.232	ppbv	96
74) 1,2,4-Trimethylbenzene	16.77	105	61535	0.133	ppbv #	67

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

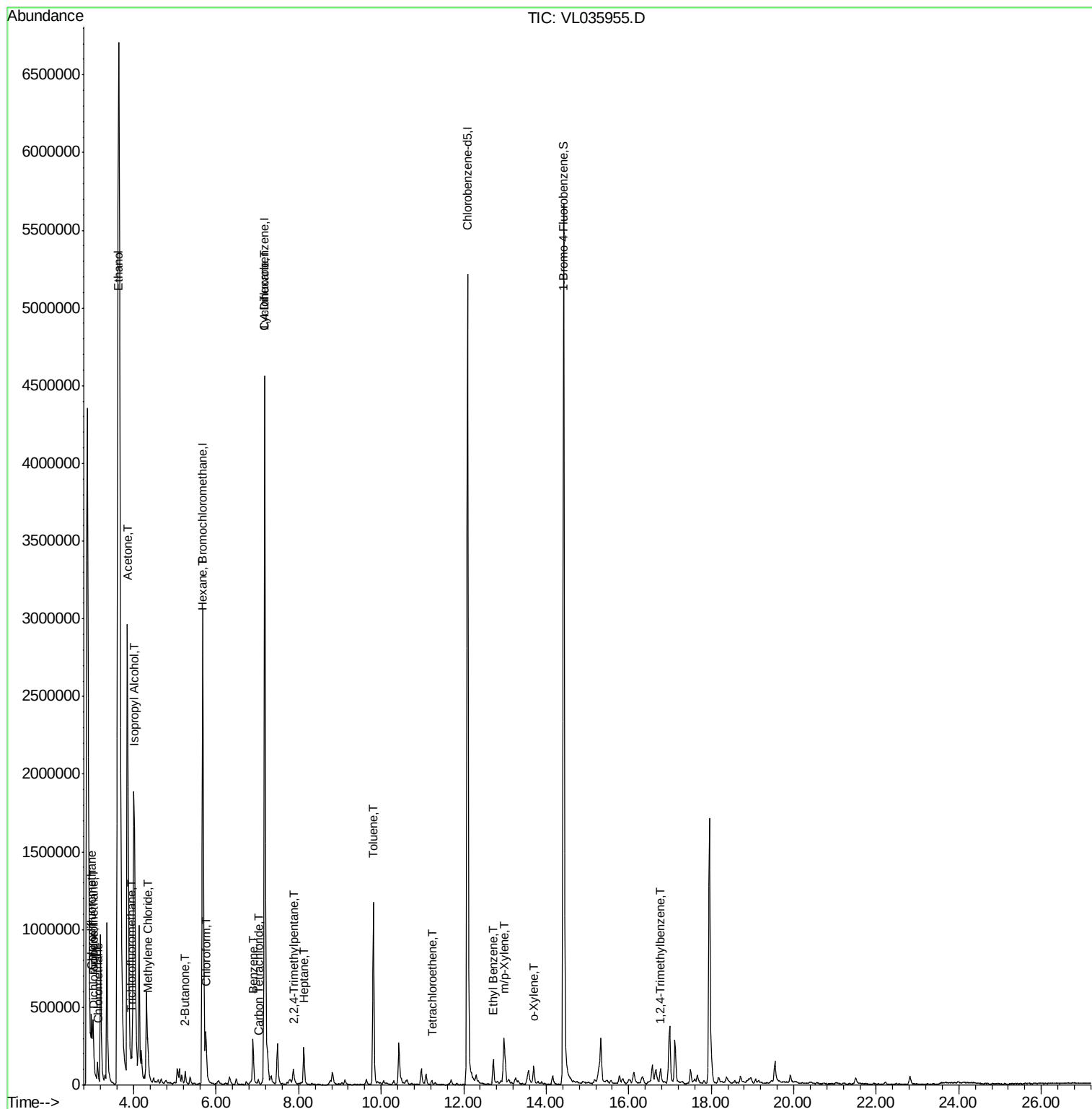
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL111620\
Data File : VL035955.D
Acq On : 16 Nov 2020 22:33
Operator : SY/AP
Sample : L4722-05
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

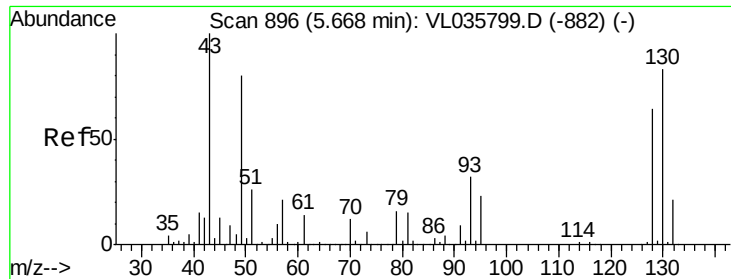
Instrument :
MSVOA_L
ClientSampleId :
SR-5

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Quant Time: Nov 17 22:16:55 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSV0A L\METHODS\VL110320AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSV0A_LWed Nov
QLast Update : Wed Nov 04 02:40:06 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. -0.00 min

Lab File: VL035955.D

Acq: 16 Nov 2020 22:33

Instrument :

MSVOA_L

ClientSampled :

SR-5

Tot Ion: 49 Resp: 1198159

Ion Ratio Lower Upper

49 100

128 76.5 41.5 124.6

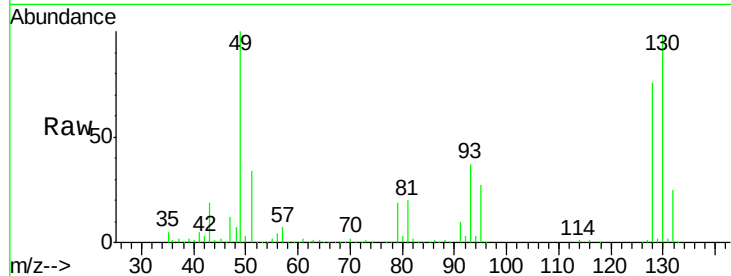
130 98.7 53.7 161.1

Manual Integrations

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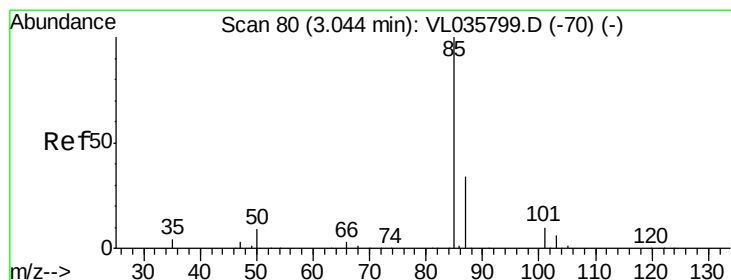
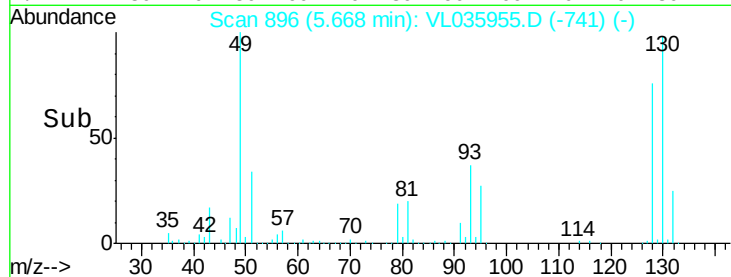
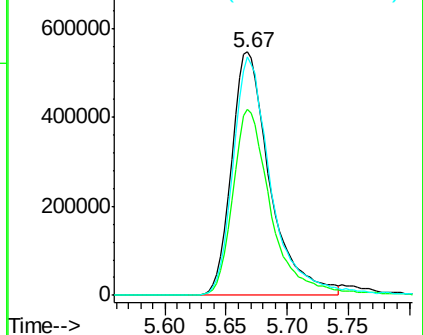
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.272 ppbv

RT: 3.04 min Scan# 80

Delta R.T. -0.00 min

Lab File: VL035955.D

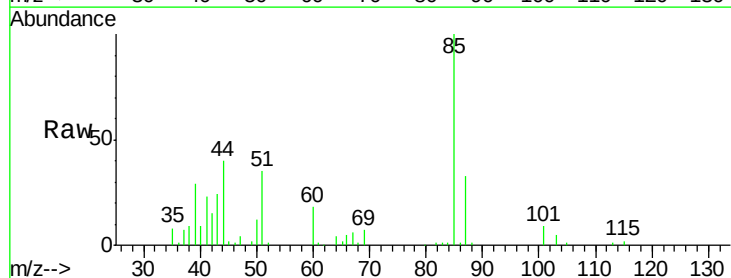
Acq: 16 Nov 2020 22:33

Tgt Ion: 85 Resp: 61297

Ion Ratio Lower Upper

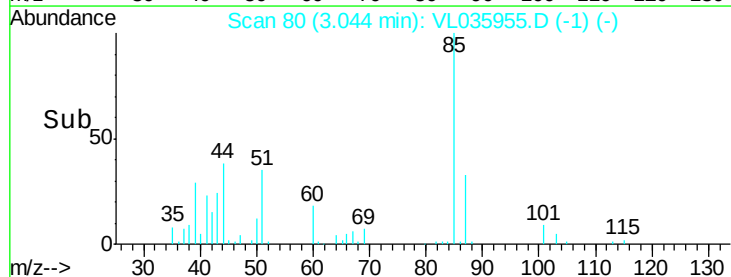
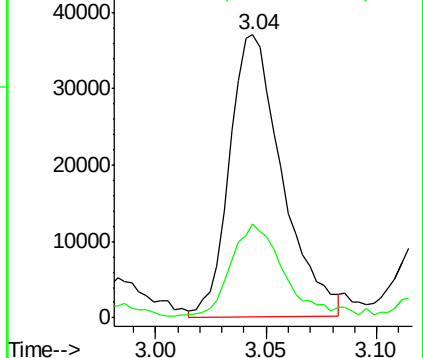
85 100

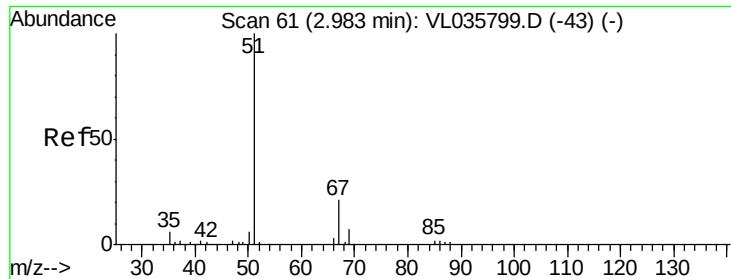
87 33.3 27.1 40.7



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 4.133 ppbv

RT: 2.98 min Scan# 61

Delta R.T. -0.00 min

Lab File: VL035955.D

Acq: 16 Nov 2020 22:33

Instrument :

MSVOA_L

ClientSampleId :

SR-5

Tot Ion: 51 Resp: 593040

Ion Ratio Lower Upper

51 100

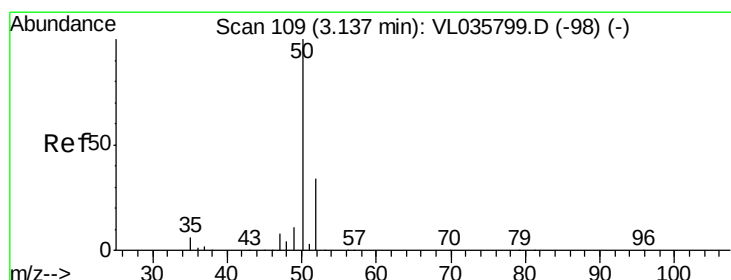
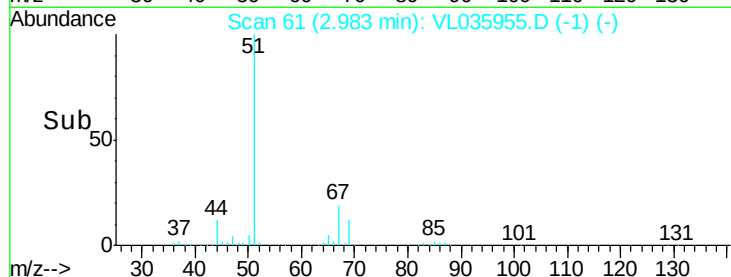
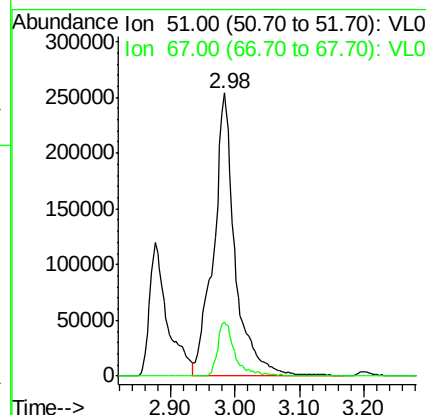
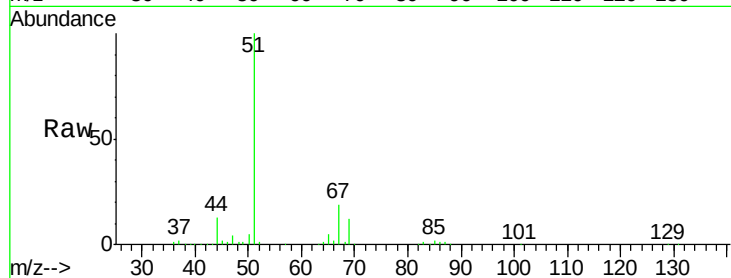
67 15.3 17.0 25.4#

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#4

Chloromethane

Concen: 0.562 ppbv

RT: 3.14 min Scan# 110

Delta R.T. 0.00 min

Lab File: VL035955.D

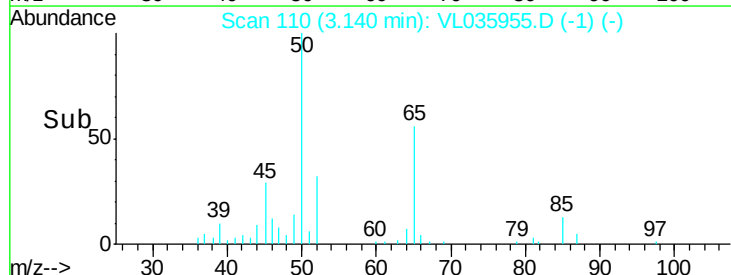
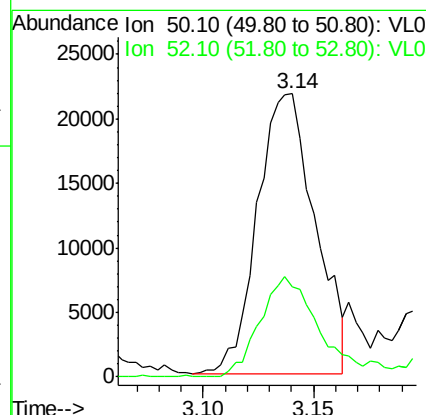
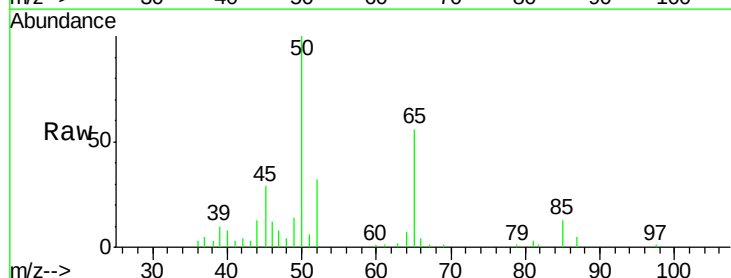
Acq: 16 Nov 2020 22:33

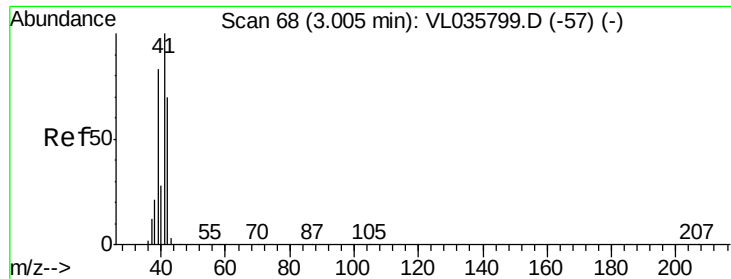
Tgt Ion: 50 Resp: 39185

Ion Ratio Lower Upper

50 100

52 32.4 27.1 40.7





#9

Propene

Concen: 1.957 ppbv m

RT: 3.01 min Scan# 70

Delta R.T. 0.01 min

Lab File: VL035955.D

Acq: 16 Nov 2020 22:33

Instrument :

MSVOA_L

ClientSampled :

SR-5

Tot Ion: 41 Resp: 102751

Ion Ratio Lower Upper

41 100

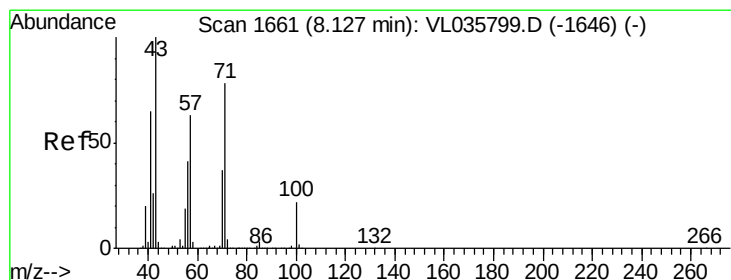
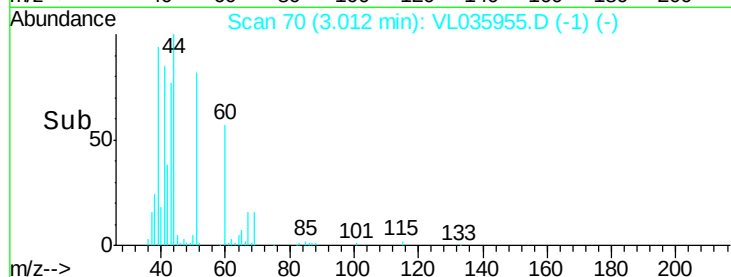
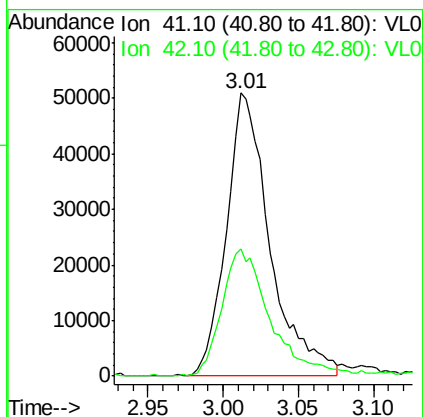
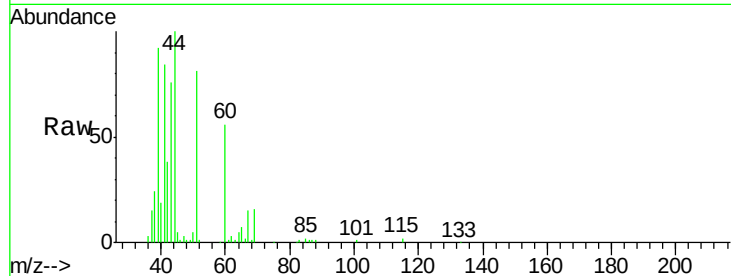
42 219.6 56.2 84.4#

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#10

Heptane

Concen: 0.547 ppbv

RT: 8.13 min Scan# 1661

Delta R.T. -0.00 min

Lab File: VL035955.D

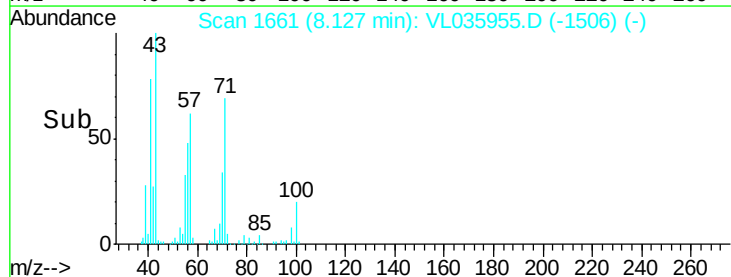
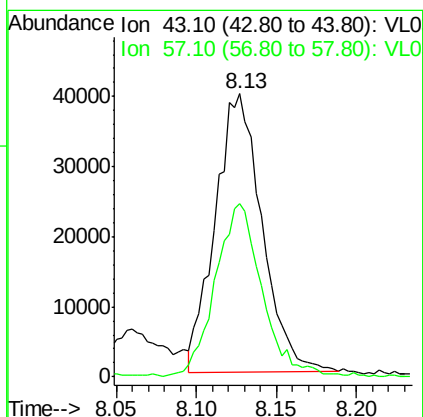
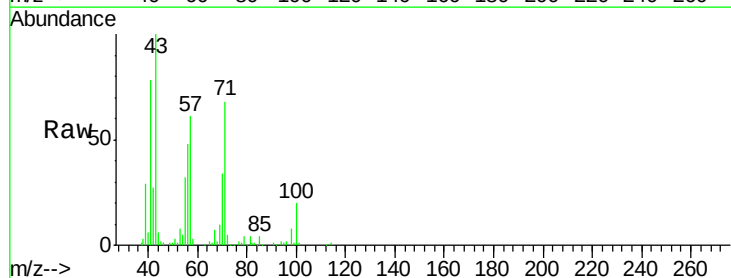
Acq: 16 Nov 2020 22:33

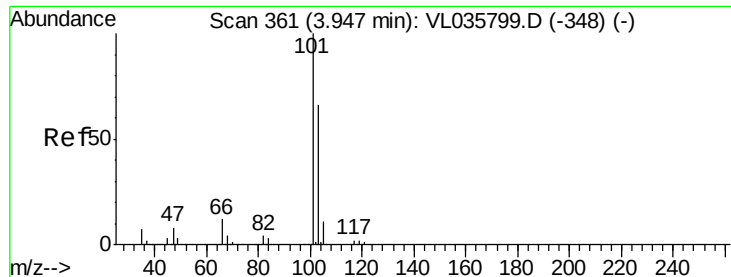
Tgt Ion: 43 Resp: 79389

Ion Ratio Lower Upper

43 100

57 62.6 50.0 75.0





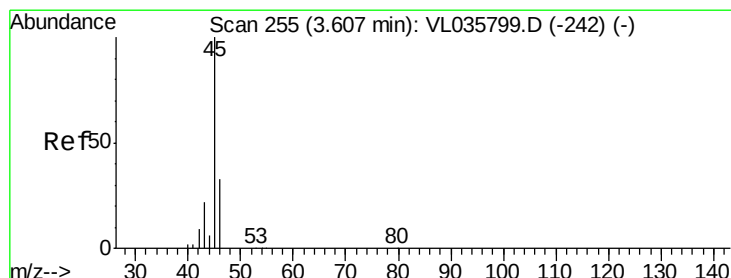
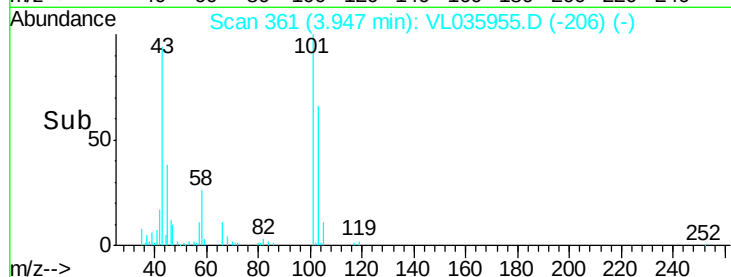
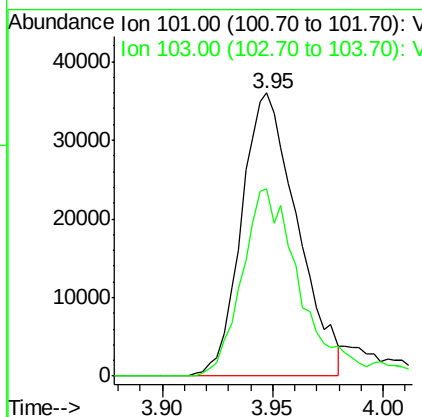
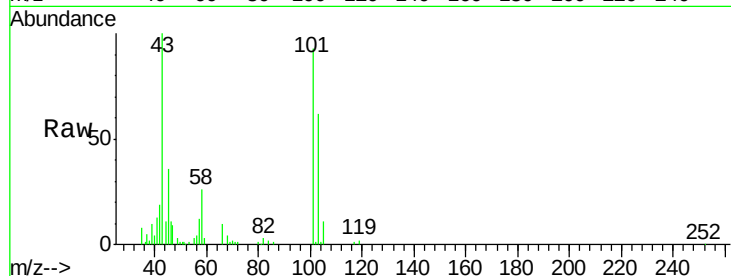
#11
 Trichlorofluoromethane
 Concen: 0.223 ppbv
 RT: 3.95 min Scan# 361
 Delta R.T. -0.00 min
 Lab File: VL035955.D
 Acq: 16 Nov 2020 22:33

Instrument :
 MSVOA_L
 ClientSampleId :
 SR-5

Tot Ion:101 Resp: 63042
 Ion Ratio Lower Upper
 101 100
 103 66.3 53.0 79.4

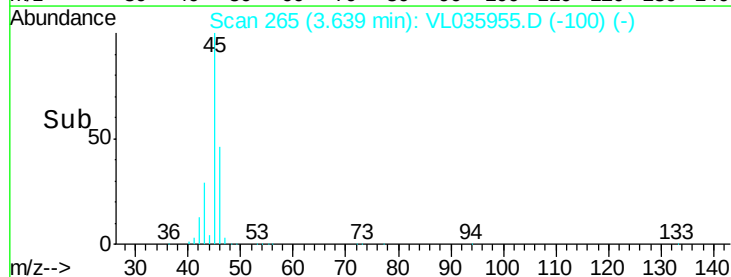
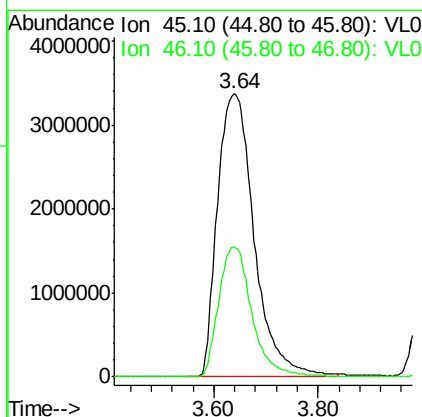
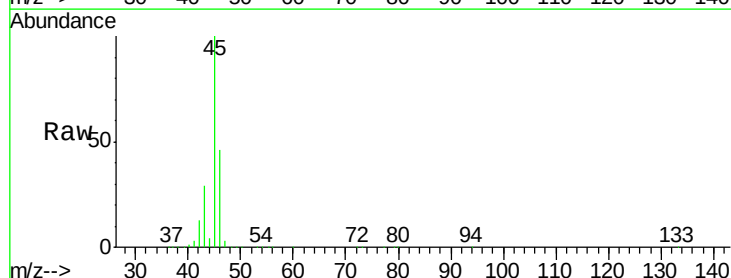
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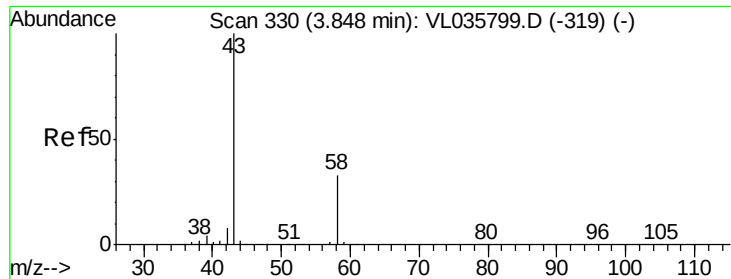
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#13
 Ethanol
 Concen: 1450.764 ppbv
 RT: 3.64 min Scan# 265
 Delta R.T. 0.03 min
 Lab File: VL035955.D
 Acq: 16 Nov 2020 22:33

Tgt Ion: 45 Resp:16528826
 Ion Ratio Lower Upper
 45 100
 46 41.9 16.1 64.5





#15

Acetone

Concen: 31.645 ppbv

RT: 3.84 min Scan# 329

Delta R.T. -0.00 min

Lab File: VL035955.D

Acq: 16 Nov 2020 22:33

Instrument :

MSVOA_L

ClientSampled :

SR-5

Tot Ion: 43 Resp: 4053502

Ion Ratio Lower Upper

43 100

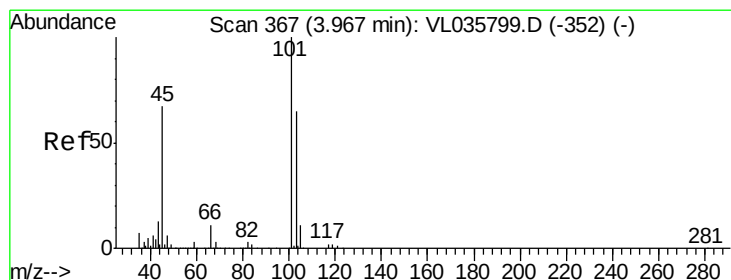
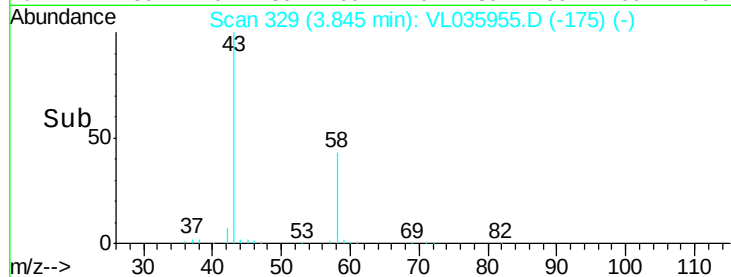
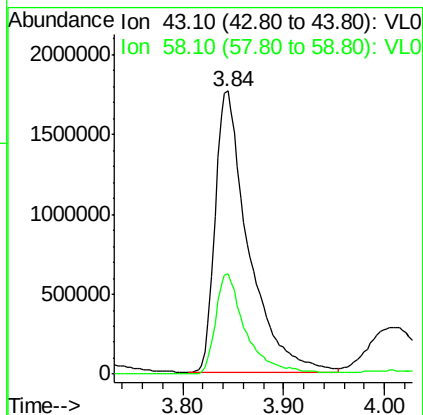
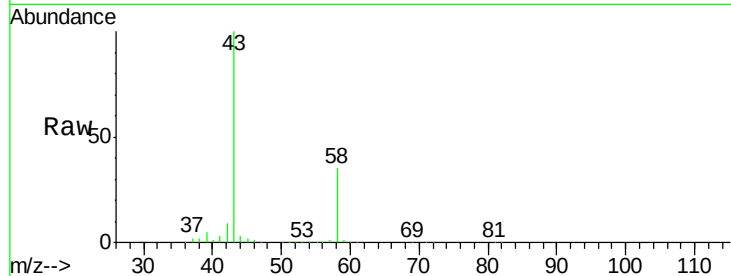
58 32.8 27.5 41.3

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#19

Isopropyl Alcohol

Concen: 48.993 ppbv

RT: 4.01 min Scan# 380

Delta R.T. 0.04 min

Lab File: VL035955.D

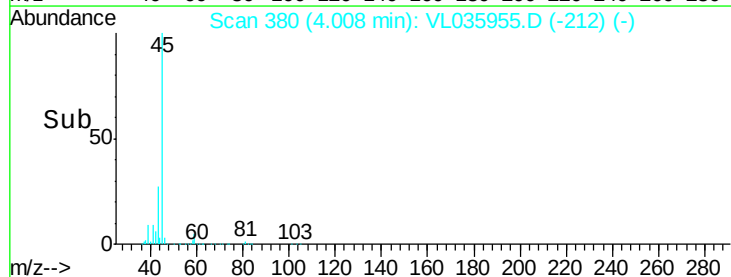
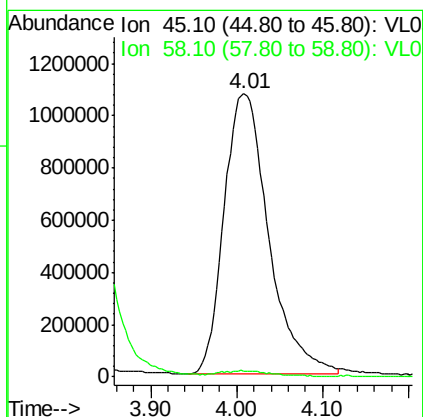
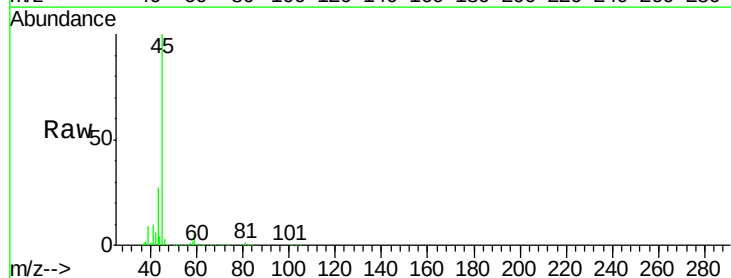
Acq: 16 Nov 2020 22:33

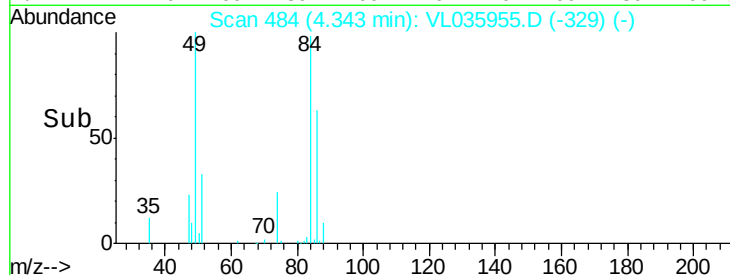
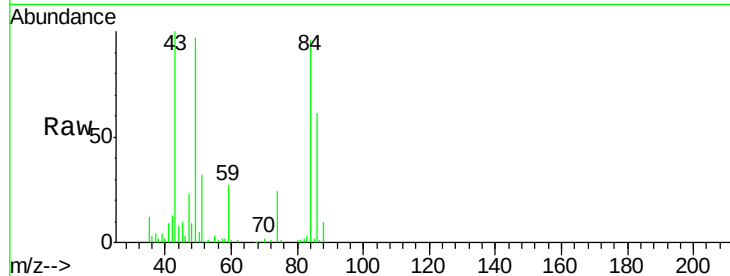
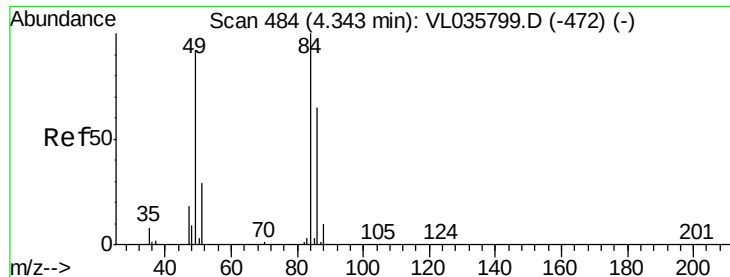
Tgt Ion: 45 Resp: 3856595

Ion Ratio Lower Upper

45 100

58 2.4 2.6 3.8#





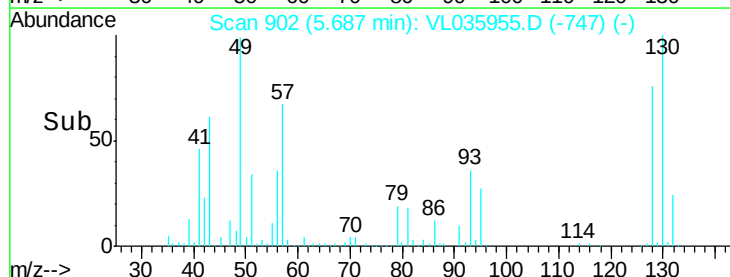
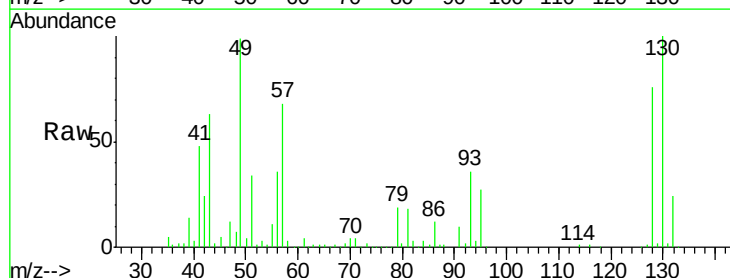
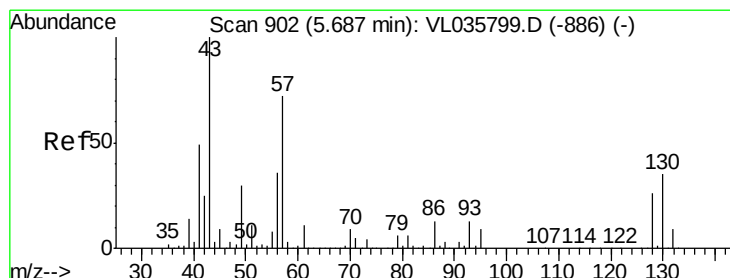
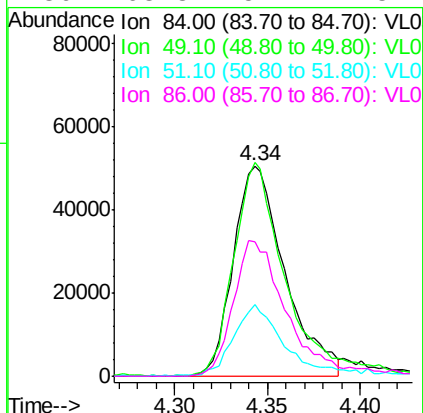
#20
Methvlene Chloride
Concen: 1.084 ppbv
RT: 4.34 min Scan# 484
Delta R.T. -0.00 min
Lab File: VL035955.D
Acq: 16 Nov 2020 22:33

Tot Ion	84	Resp	97771
Ion Ratio	Lower	Upper	
84	100		
49	101.7	73.8	110.8
51	33.3	23.0	34.4
86	63.8	52.1	78.1

Instrument :
MSVOA_L
ClientSampleId :
SR-5

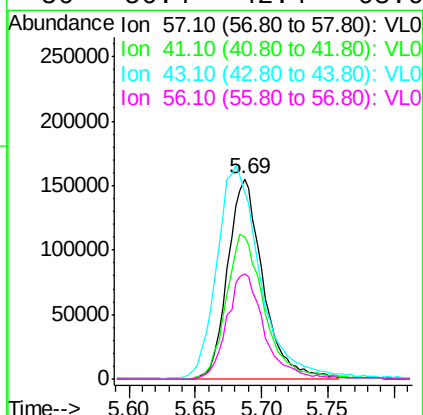
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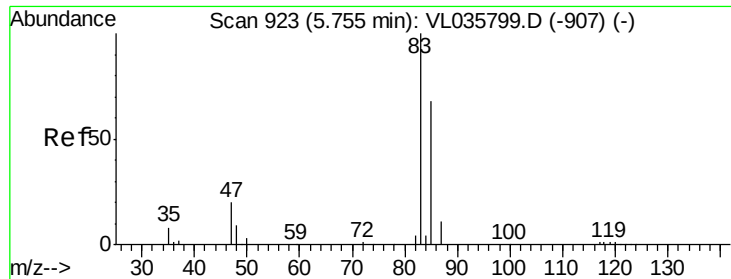
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#26
Hexane
Concen: 2.053 ppbv
RT: 5.69 min Scan# 902
Delta R.T. -0.00 min
Lab File: VL035955.D
Acq: 16 Nov 2020 22:33

Tgt Ion	57	Resp	285707
Ion Ratio	Lower	Upper	
57	100		
41	79.7	58.9	88.3
43	132.1	150.2	225.2
56	56.4	42.4	63.6





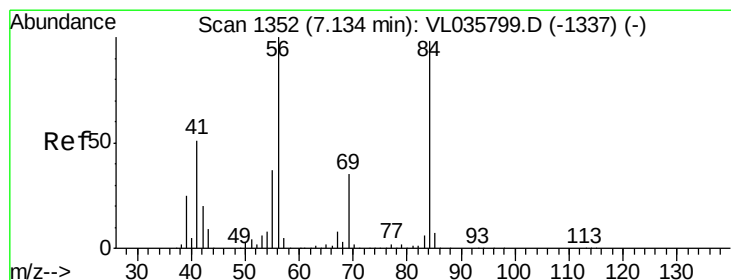
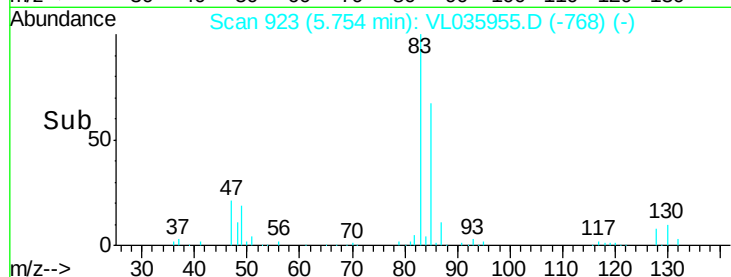
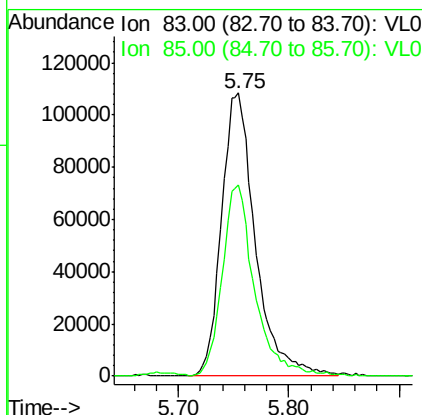
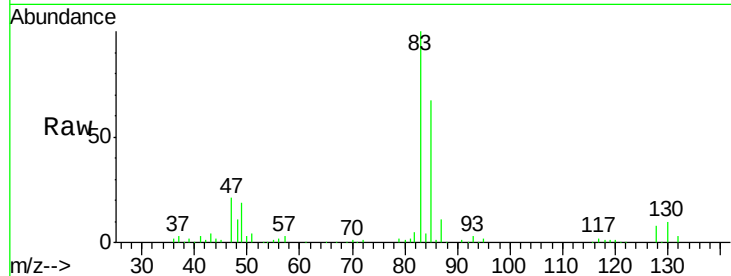
#29
Chloroform
Concen: 0.835 ppbv
RT: 5.75 min Scan# 923
Delta R.T. -0.00 min
Lab File: VL035955.D
Acq: 16 Nov 2020 22:33

Instrument :
MSVOA_L
ClientSampled :
SR-5

Tot Ion	Ratio	Resp	Lower	Upper
83	100	228295		
85	67.3		54.6	81.8

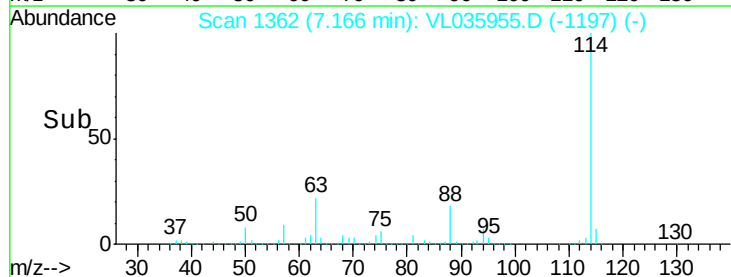
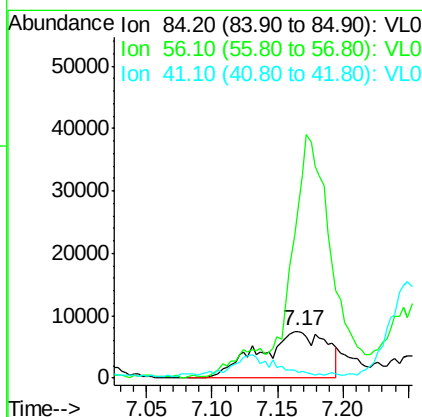
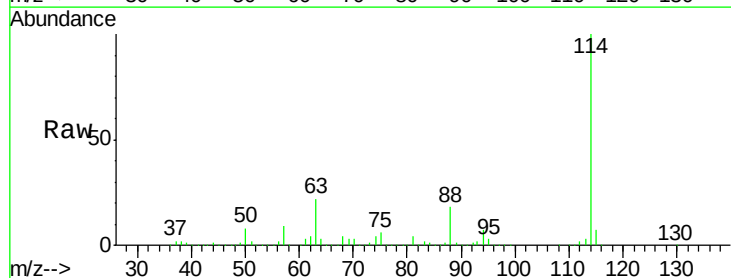
Manual Integrations
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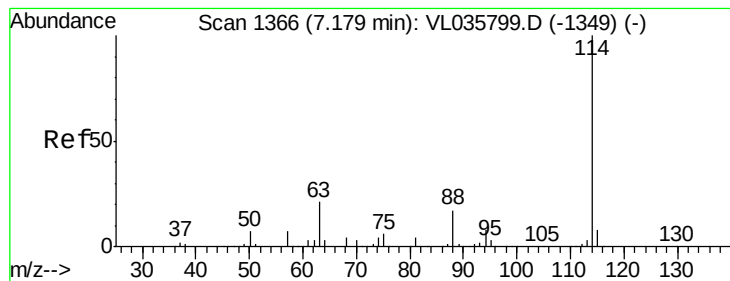
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#30
Cyclohexane
Concen: 0.177 ppbv m
RT: 7.17 min Scan# 1362
Delta R.T. 0.03 min
Lab File: VL035955.D
Acq: 16 Nov 2020 22:33

Tgt Ion	Ratio	Resp	Lower	Upper
84	100	26781		
56	0.0		86.4	129.6#
41	35.3		42.1	63.1#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 min Scan# 1365

Delta R.T. -0.00 min

Lab File: VL035955.D

Acq: 16 Nov 2020 22:33

Instrument :

MSVOA_L

ClientSampled :

SR-5

Tot Ion:114 Resp: 4167187

Ion Ratio Lower Upper

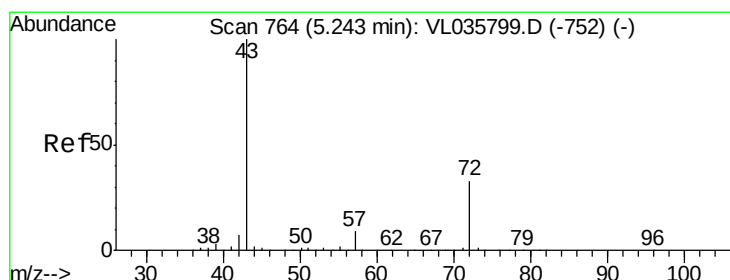
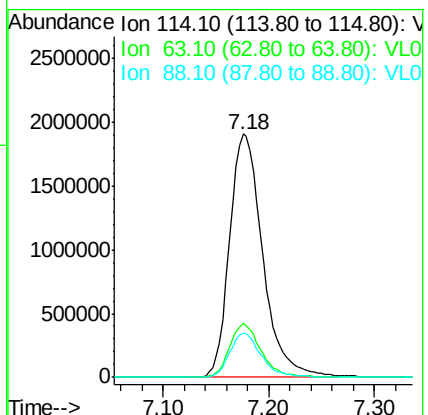
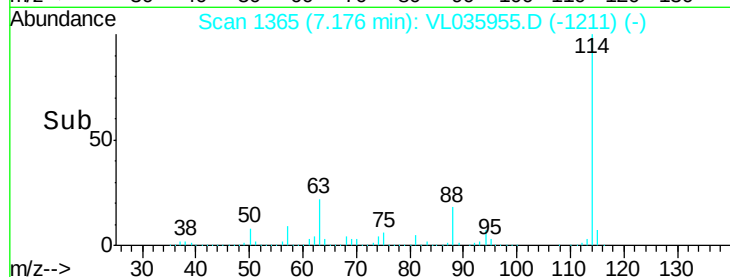
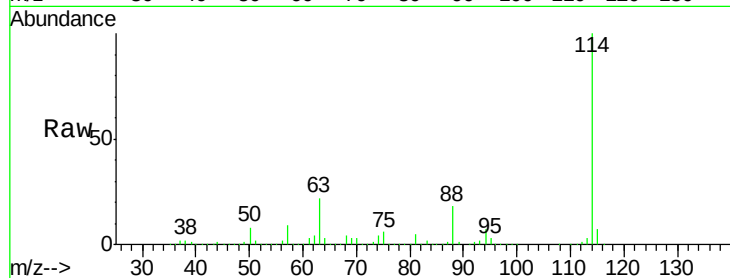
114 100

63 21.1 16.1 24.1

88 17.5 13.7 20.5

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#34

2-Butanone

Concen: 0.683 ppbv

RT: 5.25 min Scan# 765

Delta R.T. 0.00 min

Lab File: VL035955.D

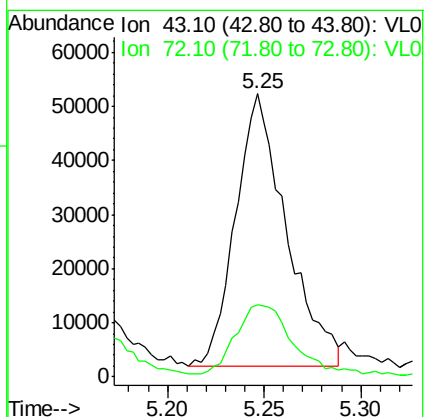
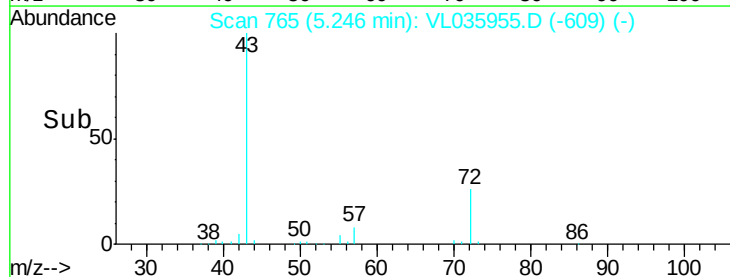
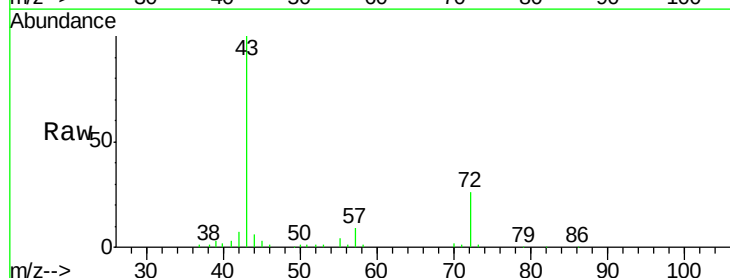
Acq: 16 Nov 2020 22:33

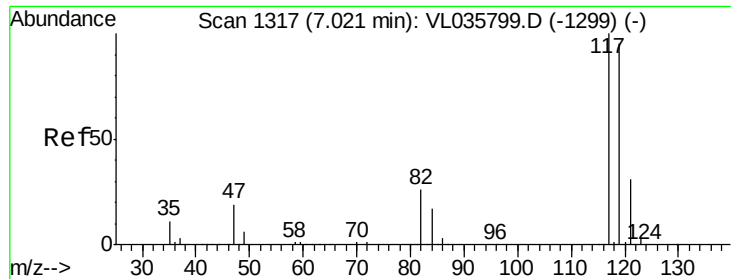
Tgt Ion: 43 Resp: 92428

Ion Ratio Lower Upper

43 100

72 32.8 26.5 39.7





#35

Carbon Tetrachloride

Concen: 0.080 ppbv m

RT: 7.02 min Scan# 1317

Delta R.T. -0.00 min

Lab File: VL035955.D

Acq: 16 Nov 2020 22:33

Instrument :

MSVOA_L

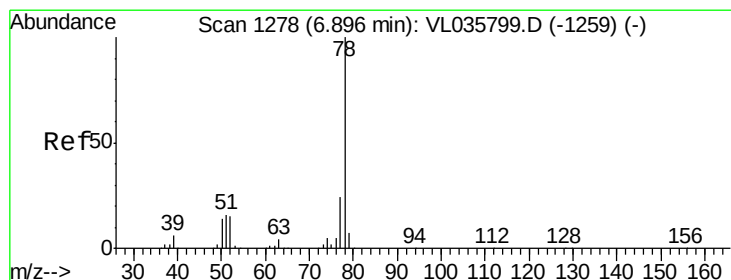
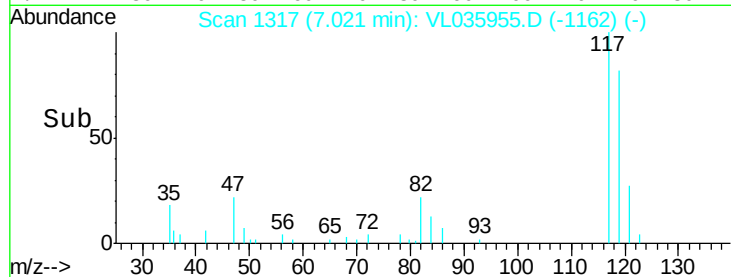
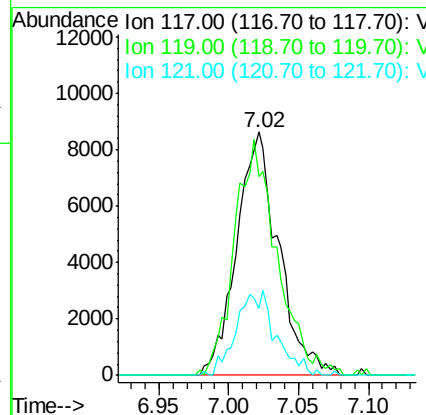
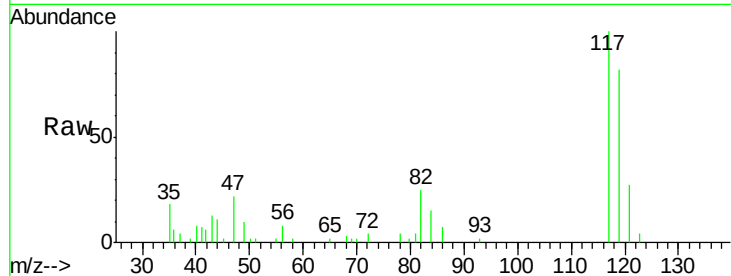
ClientSampleId :

SR-5

Tot Ion	Ratio	Lower	Upper
117	100		
119	81.9	75.6	113.4
121	27.3	25.1	37.7

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#36

Benzene

Concen: 0.947 ppbv

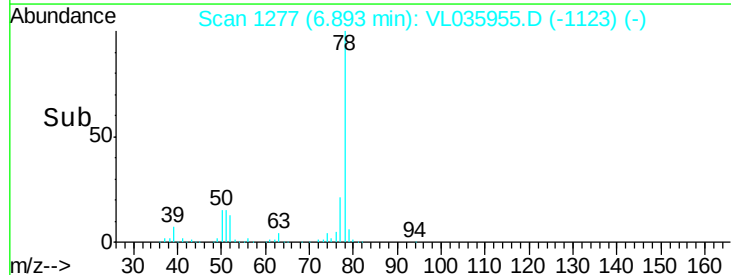
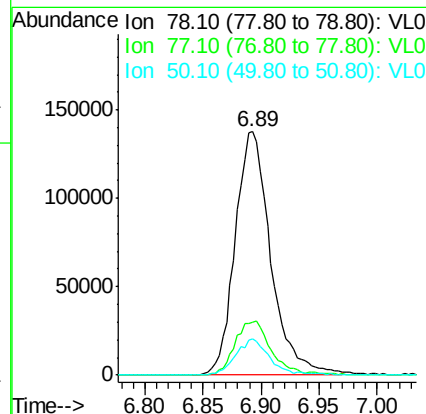
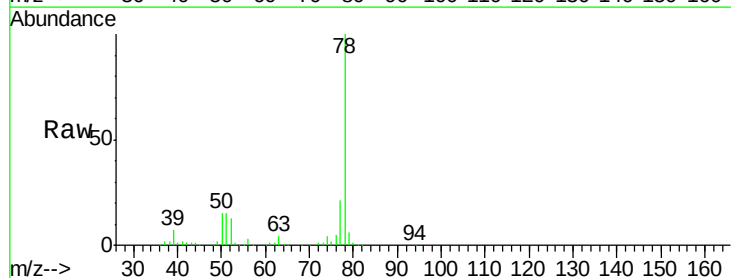
RT: 6.89 min Scan# 1277

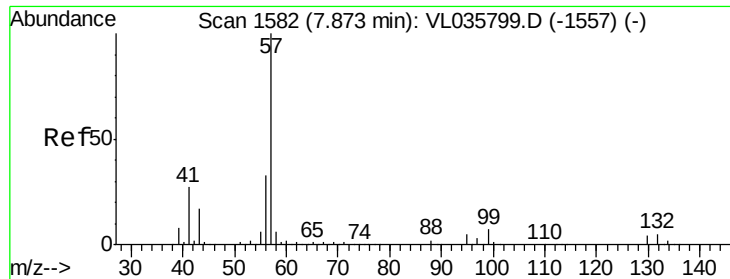
Delta R.T. -0.00 min

Lab File: VL035955.D

Acq: 16 Nov 2020 22:33

Tgt Ion	Ratio	Lower	Upper
78	100		
77	21.5	19.3	28.9
50	14.7	11.4	17.2





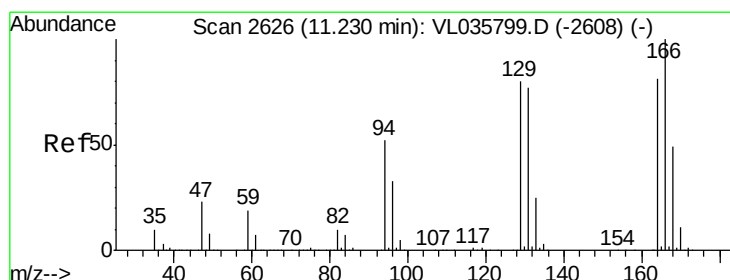
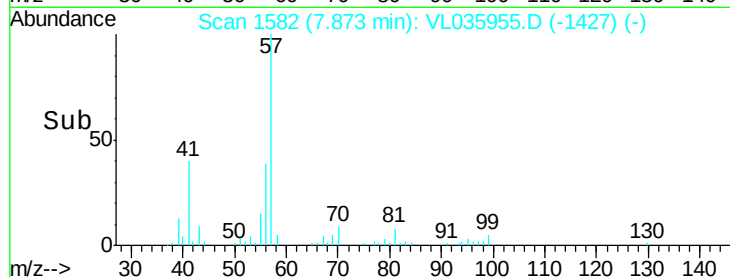
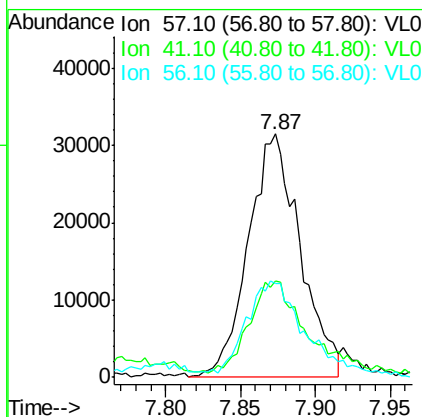
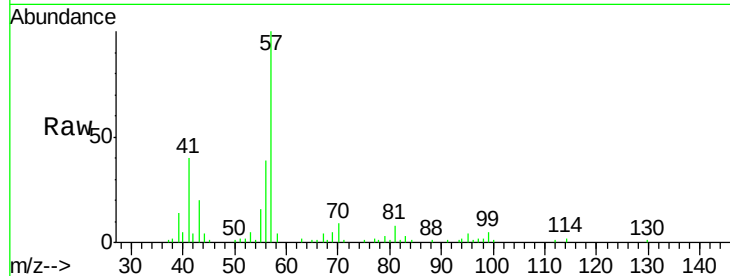
#44
 2,2,4-Trimethylpentane
 Concen: 0.184 ppbv
 RT: 7.87 min Scan# 1582
 Delta R.T. -0.00 min
 Lab File: VL035955.D
 Acq: 16 Nov 2020 22:33

Instrument :
 MSVOA_L
 ClientSampleId :
 SR-5

Tot Ion	Ratio	Lower	Upper
57	100		
41	46.3	21.0	31.4#
56	46.8	25.4	38.0#

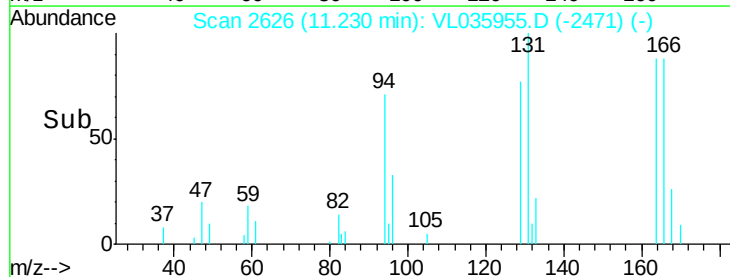
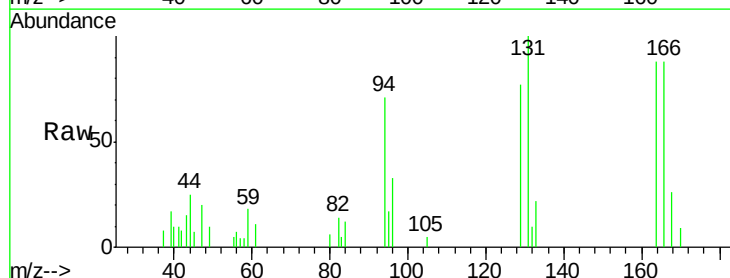
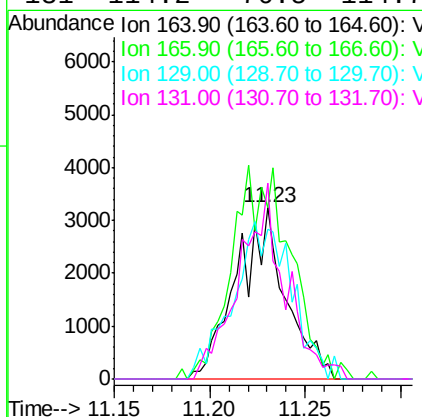
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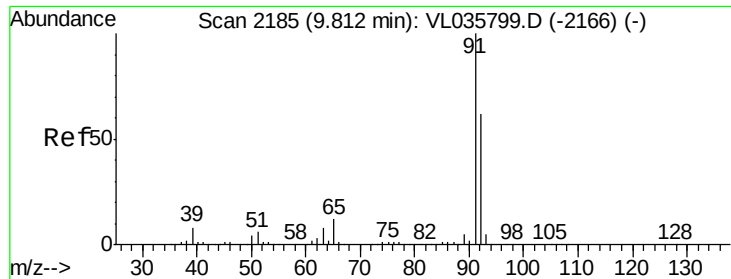
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#52
 Tetrachloroethene
 Concen: 0.040 ppbv m
 RT: 11.23 min Scan# 2626
 Delta R.T. -0.00 min
 Lab File: VL035955.D
 Acq: 16 Nov 2020 22:33

Tgt Ion	Ratio	Lower	Upper
164	100		
166	100.4	99.3	148.9
129	87.6	79.3	118.9
131	114.2	76.5	114.7





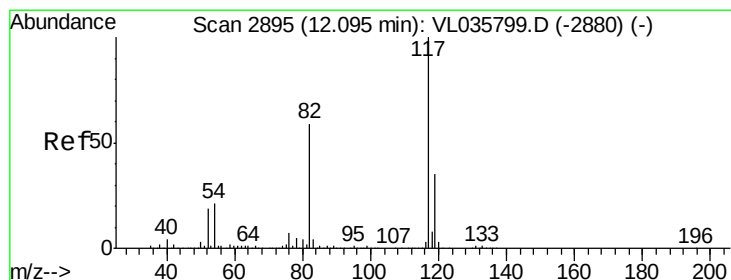
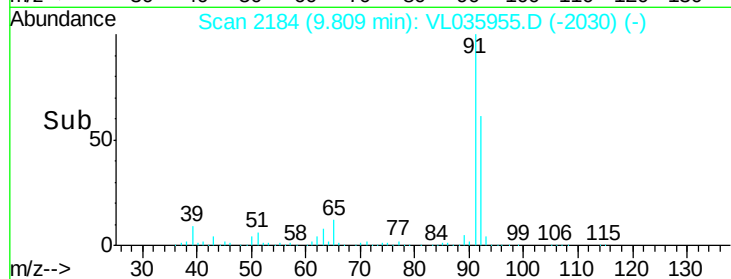
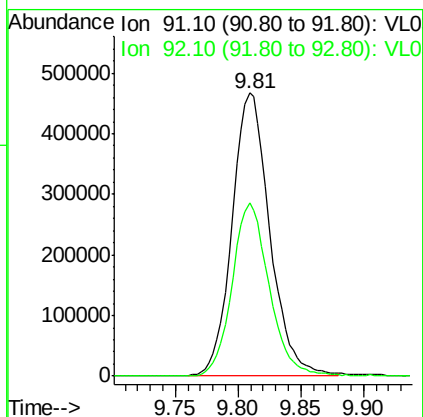
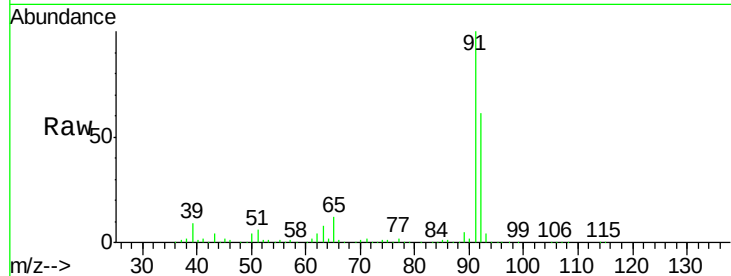
#53
Toluene
Concen: 2.611 ppbv
RT: 9.81 min Scan# 2184
Delta R.T. -0.00 min
Lab File: VL035955.D
Acq: 16 Nov 2020 22:33

Instrument :
MSVOA_L
ClientSampleId :
SR-5

Tot Ion: 91 Resp: 975968
Ion Ratio Lower Upper
91 100
92 60.8 49.8 74.6

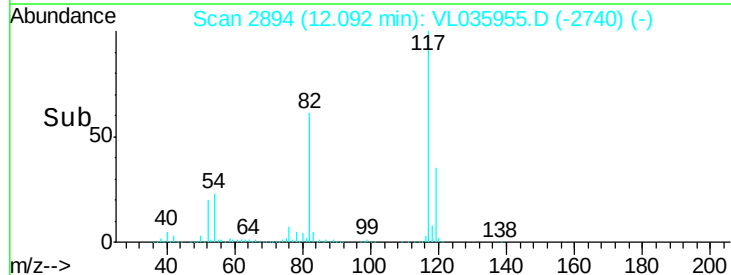
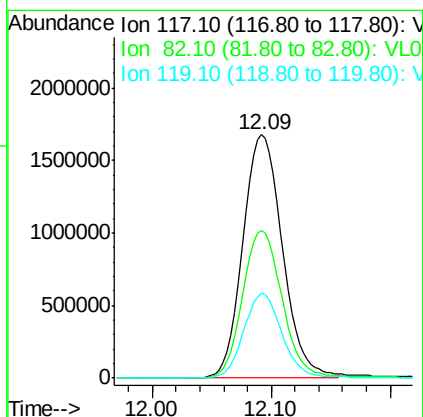
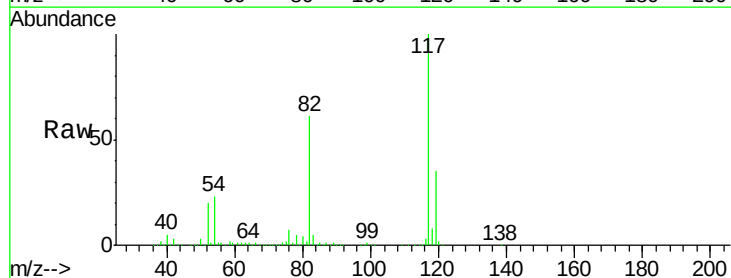
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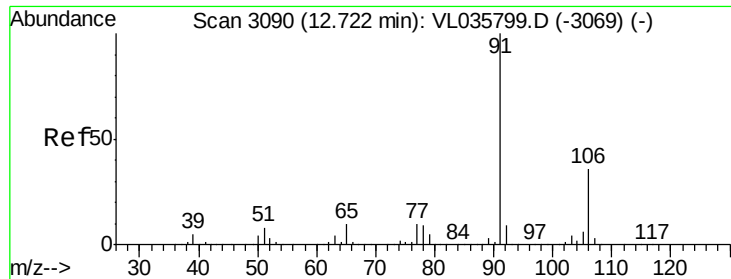
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#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2894
Delta R.T. -0.00 min
Lab File: VL035955.D
Acq: 16 Nov 2020 22:33

Tgt Ion: 117 Resp: 3872099
Ion Ratio Lower Upper
117 100
82 61.7 50.6 76.0
119 34.2 52.6 78.8#





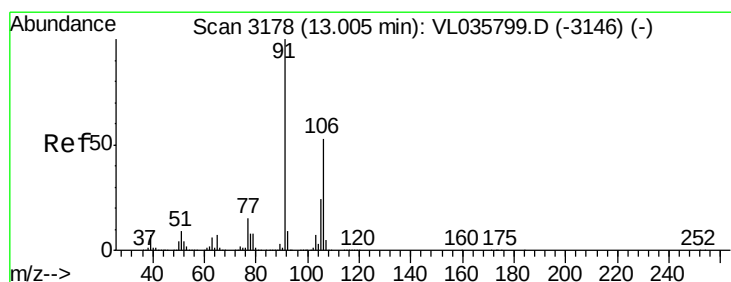
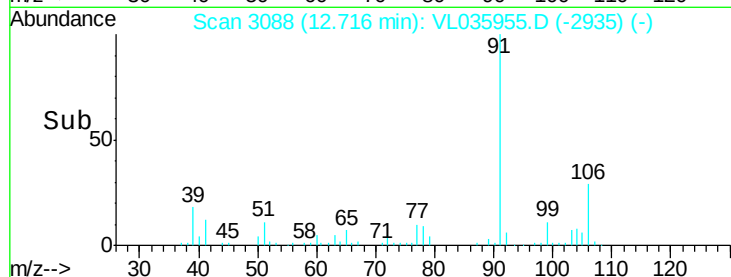
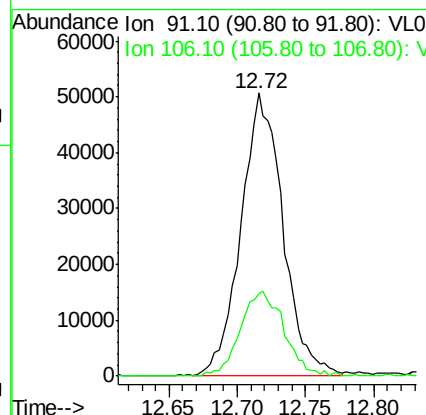
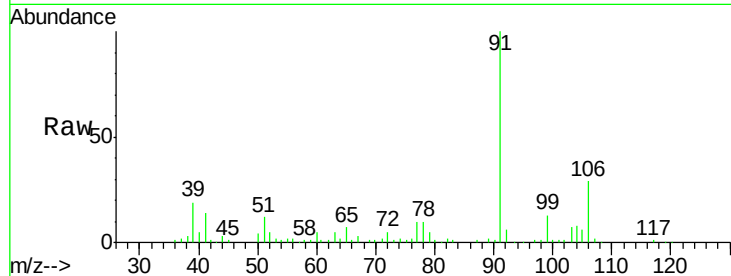
#58
Ethyl Benzene
Concen: 0.228 ppbv
RT: 12.72 min Scan# 3088
Delta R.T. -0.01 min
Lab File: VL035955.D
Acq: 16 Nov 2020 22:33

Instrument :
MSVOA_L
ClientSampled :
SR-5

Tot Ion: 91 Resp: 107321
Ion Ratio Lower Upper
91 100
106 29.0 28.6 43.0

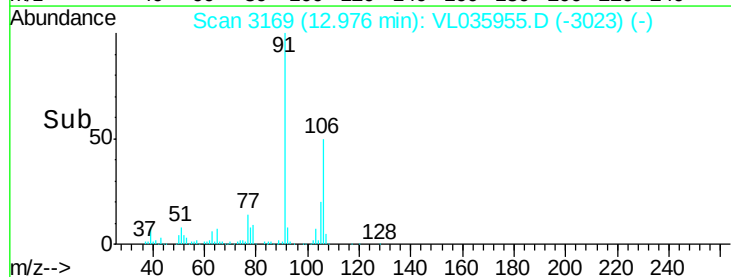
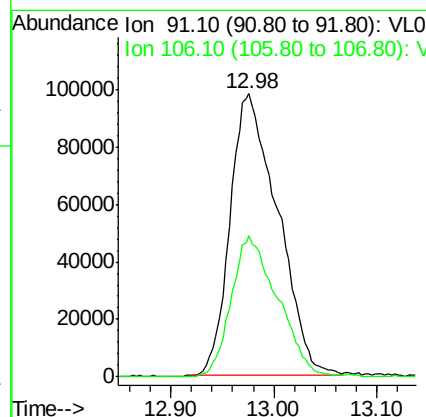
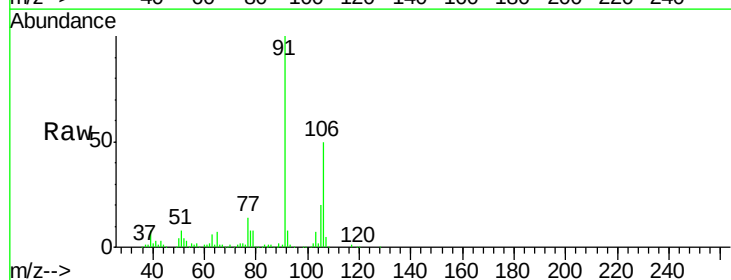
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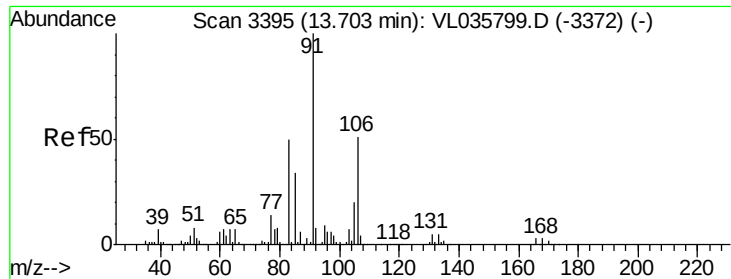
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#59
m/p-Xylene
Concen: 0.791 ppbv
RT: 12.98 min Scan# 3169
Delta R.T. -0.03 min
Lab File: VL035955.D
Acq: 16 Nov 2020 22:33

Tgt Ion: 91 Resp: 315646
Ion Ratio Lower Upper
91 100
106 48.9 39.5 59.3





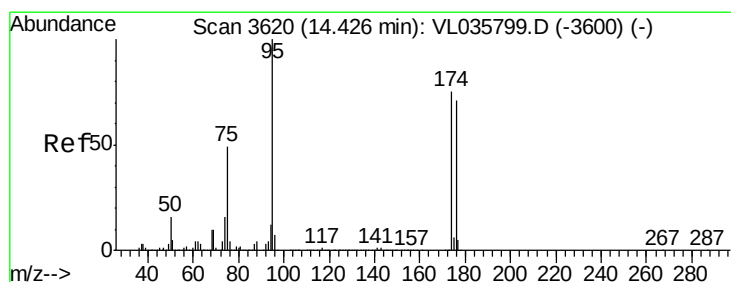
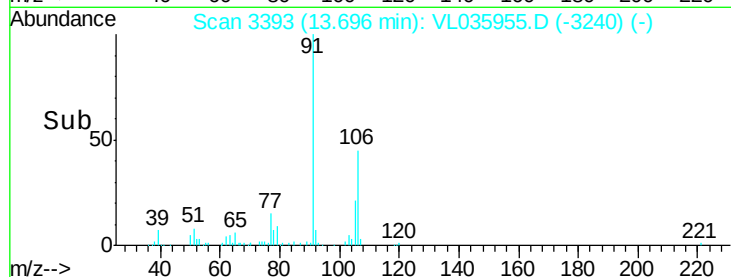
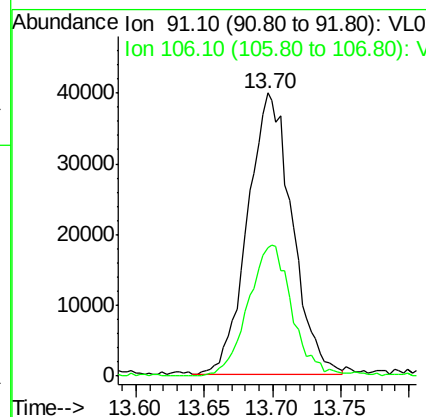
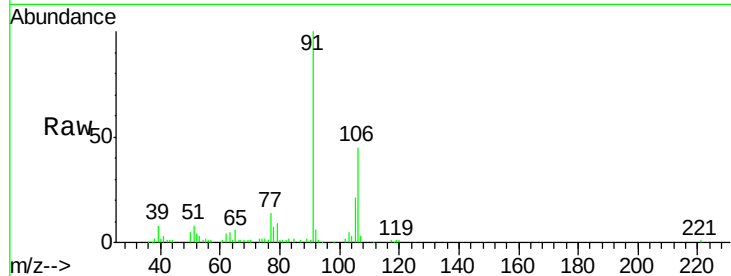
#60
o-Xylene
Concen: 0.232 ppbv
RT: 13.70 min Scan# 3393
Delta R.T. -0.01 min
Lab File: VL035955.D
Acq: 16 Nov 2020 22:33

Instrument :
MSVOA_L
ClientSampleId :
SR-5

Tot Ion: 91 Resp: 89959
Ion Ratio Lower Upper
91 100
106 47.0 24.8 74.4

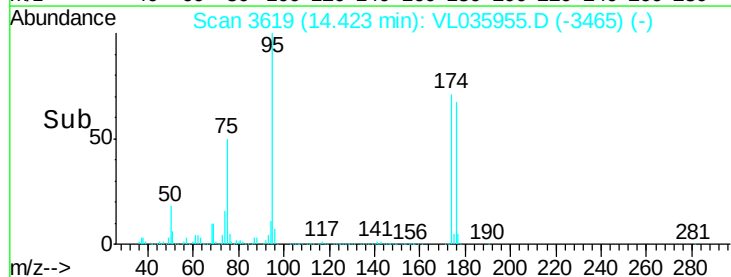
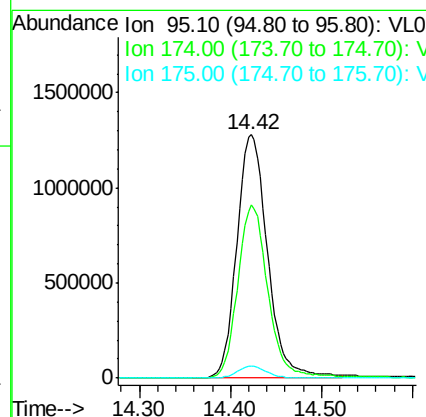
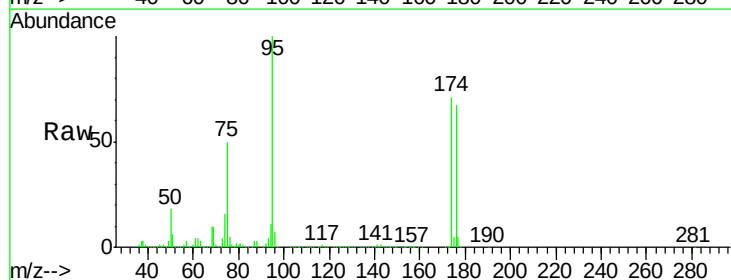
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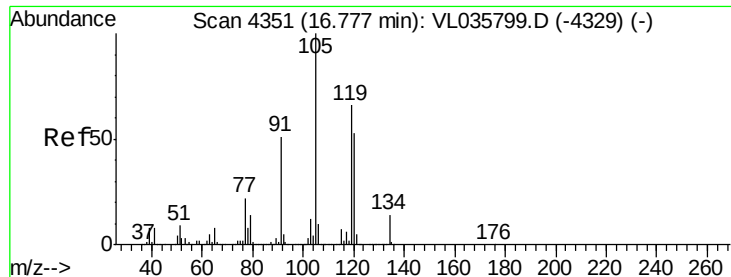
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.953 ppbv
RT: 14.42 min Scan# 3619
Delta R.T. -0.00 min
Lab File: VL035955.D
Acq: 16 Nov 2020 22:33

Tgt Ion: 95 Resp: 3013207
Ion Ratio Lower Upper
95 100
174 70.9 59.8 89.6
175 4.9 4.3 6.5





#74

1,2,4-Trimethylbenzene

Concen: 0.133 ppbv

RT: 16.77 min Scan# 4348

Delta R.T. -0.01 min

Lab File: VL035955.D

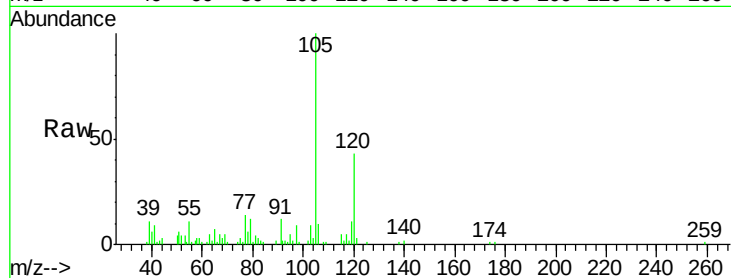
Acq: 16 Nov 2020 22:33

Instrument :

MSVOA_L

ClientSampleId :

SR-5



Tot Ion	Ratio	Resp Lower	Upper
105	100		
120	43.8	42.0	63.0
91	9.3	41.0	61.6#
77	12.4	17.3	25.9#

Manual Integrations
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